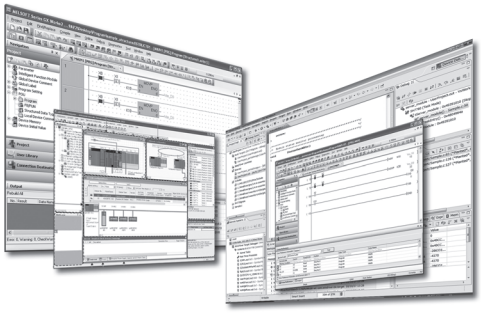
MELSOFT

MITSUBISHI ELECTRIC

Engineering Software

MX Component Version 4 Programming Manual

-SW4DNC-ACT-E



SAFETY PRECAUTIONS

(Read these precautions before using this product.)

Before using this product, please read this manual and the relevant manuals carefully and pay full attention to safety to handle the product correctly.

In this manual, the safety precautions are classified into two levels: "⚠ WARNING" and "⚠ CAUTION".

⚠ **WARNING**	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
⚠ **CAUTION**	Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.

Under some circumstances, failure to observe the precautions given under "⚠ CAUTION" may lead to serious consequences.

Observe the precautions of both levels because they are important for personal and system safety.

Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

[Design Precautions]

⚠ WARNING

- When data change, program change, or status control is performed from a personal computer to a running programmable controller, create an interlock circuit outside the programmable controller to ensure that the whole system always operates safely.
  Furthermore, for the online operations performed from a personal computer to a programmable controller CPU, the corrective actions against a communication error due to such as a cable connection fault should be predetermined as a system.

⚠ CAUTION

- The online operations performed from a personal computer to a running programmable controller CPU (forced output and operating status changes) must be executed after the manual has been carefully read and the safety has been ensured.
  The operation failure may cause the injury or machine damage.

CONDITIONS OF USE FOR THE PRODUCT

(1) Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;
i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and
ii) where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.

(2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries.
MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY the PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR the PRODUCT.
("Prohibited Application")
Prohibited Applications include, but not limited to, the use of the PRODUCT in;

- Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
- Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
- Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.

Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTs are required. For details, please contact the Mitsubishi representative in your region.

OPERATING CONSIDERATIONS

This section explains the considerations in the following order.

1. Considerations of operating system and personal computer to be used
2. Considerations of installation and uninstallation
3. Programmable controller CPU-related considerations
4. Considerations for using other MELSOFT products
5. Considerations for using Ethernet modules
6. Considerations for using CC-Link modules
7. Considerations for using serial communication modules
8. Considerations of modem communication
9. Considerations of programming
10. Considerations for using Microsoft® Excel®
11. Considerations for using Microsoft Access®
12. Considerations for using VBScript
13. Considerations for using Robot controller

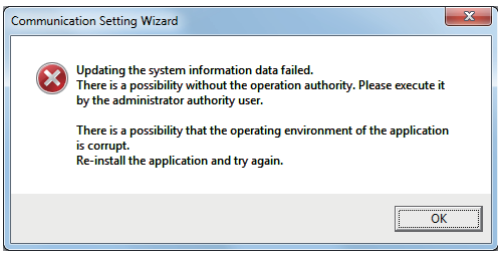
Considerations of operating system and personal computer to be used

■Restrictions applied when a user without Administrator's authority operates MX Component

Note that the following restrictions are applied when a user without Administrator's authority operates MX Component.

Item	Restrictions
Communication Setup Utility	The logical station number cannot be created, changed, or deleted. Communication settings cannot be imported. This utility cannot be started up if the communication settings are set using MX Component earlier than Version 3.00A.*1
PLC Monitor Utility	This utility cannot be started up if the communication settings are set using MX Component earlier than Version 3.00A.*1 Device registration cannot be performed on the [Entry Device] tab.
Communication board	Various settings cannot be set on the CC-Link IE Controller Network, CC-Link IE Field Network, MELSECNET/H, and CC-Link Ver.2 board utilities.

*1 If the following error message is displayed, start up and close the utility as a user with Administrator's authority.
This operation enables a user without Administrator's authority to start up the utility.



■Resume and other functions of personal computer

A communication error may occur when communicating with the programmable controller CPU after setting the resume function, suspend setting, power-saving function, and/or standby mode of the personal computer.
Therefore, do not set the above functions when communicating with the programmable controller CPU.

Considerations of installation and uninstallation

■Installation

When performing overwrite installation, install the software in the same folder where it is installed previously.

■Start menu

When MX Component is uninstalled, the item may remain in the start menu.
In this case, restart the personal computer.

■When downloading the installer

When downloading the installer, save the installer to a directory which does not include any space and execute it.

Programmable controller CPU-related considerations

■Considerations for performing USB communication

A communication error may occur and it may not be recovered if connecting and disconnecting a USB cable, resetting the a programmable controller CPU, or turning the power ON or OFF is performed frequently during communication with a programmable controller CPU.
If it is not recovered, completely disconnect the USB cable and then reconnect it after 5 or more seconds.
(If this error occurs at the initial communication after the above operation, the function will be performed properly in and after the second communications.)

■Clock data of programmable controller CPU

- For QCPUs (Q mode), LCPUs, and FXCPUs, the clock data setting can be set if the programmable controller CPU is in the RUN status.
- For QCPU (Q mode) and LCPU, the setting can be set regardless of the ON/OFF status of the time setting device "SM1028".
- The clock data can be set on FXCPUs with the built-in clock or FXU/FX2C/FX2NC with the RTC cassette.
- Note that an error for transfer time occurs in the time setting.

■Restrictions on using FXCPU

- When an FXCPU is used, the TN devices (timer present values) or CN devices (counter present values) cannot be accessed if the device numbers specified are split across 199 or lower and 200 or higher.
- Since FXCPUs do not feature the PAUSE switch as the programmable controller CPU, an error is returned if remote pause is specified in SetCpuStatus.
- Note that specifying the first I/O number of a non-existing module and executing the WriteBuffer() method will not return an error.
- For the index registers (Z, V) of FXCPUs, data cannot be written to 2 or more consecutive points using WriteDeviceBlock(). (Data may be written to only one point.)

■Serial communication function of Q00UJ/Q00/Q00U/Q01/Q01U/Q02UCPU

In this section, "serial communication function compatible CPU" indicates Q00UJ/Q00/Q00U/Q01/Q01U/Q02UCPU.
When the following conditions are all satisfied, communication between the personal computer and the serial communication function compatible CPU is set at 9600bps speed.

- The serial communication function of the connected CPU is valid.
- The transmission speed settings differ between the personal computer and the serial communication function compatible CPU side.

To increase the communication speed, match the transmission speed of personal computer with that of serial communication function compatible CPU.

■Considerations for using built-in Ethernet CPU

- When resetting the programmable controller CPU during TCP/IP connection establishment (during opening) using MX Component, a communication error or receive error occurs at subsequent communication.
  In this case, perform the close processing in the application that uses MX Component, and perform the open processing again.
- The communication error may occur while establishing the Ethernet direct connection for the CPU, which communicates using Ethernet direct connection with another personal computer. In such case, retry the communication by resetting the CPU.

■Considerations for using RnSFCPU

In order to protect the safety programmable controller system, the "write to buffer memory" and "write to safety devices in safety mode" functions cannot be executed.

■Considerations for using QSCPU

In order to protect the safety programmable controller system, functions to write data to buffer memory, to write/set devices, and to write clock data cannot be executed.

■Considerations for using FX5CPU

- Since FX5CPUs do not feature the PAUSE switch as the programmable controller CPU, an error is returned if remote pause is specified in SetCpuStatus.
- FX5CPUs do not support the ReadBuffer() and WriteBuffer() methods. For writing/reading buffer memory, specify the device (U*\G*).
- Multiple simultaneous communications cannot be established via the route specified by a different adapter when an adapter to be used for Ethernet direct connection is specified to establish a communication.
- Personal computer-side adapter information of communication settings may need to reset depending on the change in personal computer environment or other MELSOFT application settings.

Considerations for using other MELSOFT products

■Considerations for performing GX Simulator communication

Before executing PLC Monitor Utility, Communication Setup Utility, or a user program, check that GX Simulator and GX Developer are operating. Do not terminate GX Simulator and GX Developer while executing the user program.
If GX Simulator or GX Developer is terminated while the user program is running, the user program will not be terminated normally.

■Considerations for performing MT Simulator2 communication

- After installing MX Component, install MT Developer2.
- The maximum number of connections to MT Simulator2 is 4.

MT Developer2 is included in the maximum number of connections.
When two MT Developer2s and one MT Simulator2 are activated, three connections can be established from MX Component.

Considerations for using Ethernet modules

■Resetting programmable controller CPU during TCP/IP connection establishment

When resetting the programmable controller CPU during TCP/IP connection establishment (during opening) using MX Component, a communication error or receive error occurs at subsequent communication.
In this case, perform the close processing in the application that uses MX Component, and perform the open processing again.

■Target existence check starting interval of Ethernet module

If the close processing (Close) is executed from the personal computer, the Ethernet module may not perform the close processing (Close). One of its causes is the cable disconnection.
If the open processing (Open) is executed from the personal computer with the Ethernet module not executing the close processing (Close), the open processing (Open) from the personal computer is not terminated normally until the Ethernet module performs a target existence check and executes the close processing (Close).
When terminating the open processing (Open) early from the personal computer, shorten the target existence check starting interval setting of the Ethernet module.
(The default setting of target existence check starting interval of the Ethernet module is 10 minutes.)

■Replacement of Ethernet module

If the Ethernet modules are changed during Ethernet communication due to debugging, failure or the like, the other node (personal computer) must be restarted.
(Because the Ethernet addresses (MAC addresses) differ between devices.)

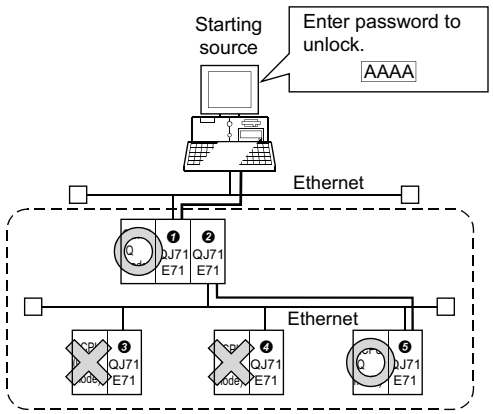
■Simultaneous access when using Q series-compatible Ethernet module

The following conditions should be satisfied when communication is performed simultaneously from multiple personal computers to the same module using the TCP/IP protocol.

- Using Q series-compatible E71 module (except QJ71E71-100) whose first five digits of the serial number are "02122" or higher and whose function version is B or later.
- Using GX Developer Version 6.05F or later, set "MELSOFT connection" in the Ethernet parameter [open system].

■Unlocking password when using QJ71E71

The range where the password can be unlocked by remote operation is up to the connection target station.
If the password is also set on the lower layer, communication cannot be performed with the programmable controller CPU on the lower layer.



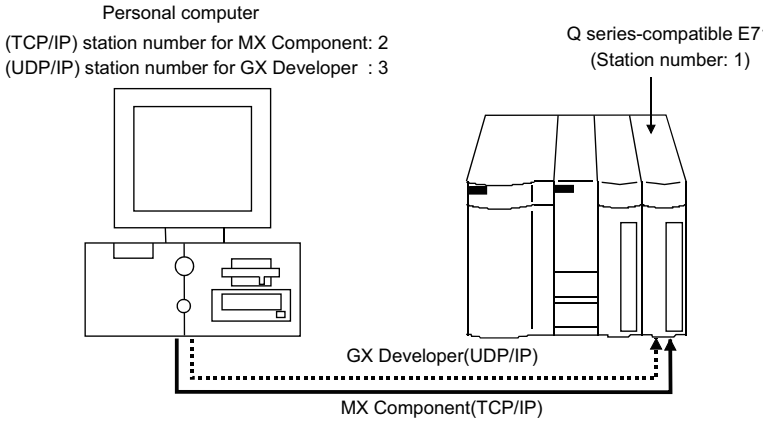
No.	Remote Password
❶	With setting (AAAA)
❷	Without setting
❸	With setting (AAAA)
❹	With setting (BBBB)
❺	Without setting

○ : Accessible
× : Inaccessible

❶ Unlocking QJ71E71 password enables access to Programmable controller CPUs in this range.

■Ethernet communication

- The communication line is disconnected if the CPU becomes faulty or the Ethernet module is reset during Ethernet communication (when the protocol is TCP/IP).
  In this case, perform the line close processing (Close) and then perform the reopen processing (Open).
- When two different communication systems (protocols) are used to access from one personal computer to one Q series-compatible E71, two station numbers for TCP/IP and for UDP/IP must be set.
  However, it is not required to set different station numbers for TCP/IP and for UDP/IP when using MX Component Version 3 or later and Q series-compatible E71 with serial number "05051" or higher.
  Example: When MX Component uses TCP/IP and GX Developer uses UDP/IP



Set different station numbers as the (TCP/IP) station number for MX Component and (UDP/IP) station number for GX Developer. If they are set to the same station number, an error will occur on the Ethernet module side.

Considerations for using CC-Link modules

■Software version of CC-Link master/local module

For CC-Link master/local modules used in CC-Link communication, use modules of software version "N" or later.
Modules of software version "M" or earlier do not operate normally.

Considerations for using serial communication modules

■Serial communication

- On any serial communication modules, remote "PAUSE" operation will result in an error for all connections.
- The FX extended port is required when performing the serial communication using FX0N, FX1S, FX1N(C), FX2N(C), FX3S, FX3G(C), or FX3U(C)CPU.

■Considerations for connecting personal computer and serial communication module

- When using QJ71C24-R2 of function version A
  An MX Component application can use only either one of CH1 and CH2.
  When the MELSOFT product (GX Developer, GOT, or the like) is using one channel, the application cannot use the other channel.
  When QJ71C24-R2 of function version B is used, the application can use both channels.

Considerations of modem communication

■Simultaneous modem communications

The simultaneous modem communications using MX Component and other applications (GX Developer or the like) cannot be performed.

Do not perform a modem communication using other applications during a modem communication using MX Component.

If modem communications are simultaneously performed using MX Component and other application, this will result in a communication error, disconnection of telephone line or similar problem.

■Considerations for using telephone line

- Do not use the call-waiting phone line.
  On the call-waiting phone line, data corruption, telephone line disconnection, or similar problem may occur due to interrupt reading sounds.
- Do not connect the line to master/slave phones.
  If the handset of the slave phone is lifted while the telephone line is connecting to the master/slave phones, the telephone line may be disconnected.
- Use an analog 2 wire type telephone line.
  When using a digital line, use a terminal adapter.
  When the telephone line is 4 wire type, the line may not be connected depending on the wiring type of the modular jack.
  For the 4 wire type, conduct connection tests in advance to check for connections.

■Considerations for using cellular phone

- Modem for radio communication using a cellular phone
  Although the modem name is different according to the manufacturer, the modem is generically referred to as the cellular phone communication unit in this manual.
  Select the model of the cellular phone communication unit according to the cellular phone used.
  For details, contact the company of your cellular phone.
- Cellular phone without auto answer function
  For the cellular phone without auto answer function, use a cellular phone communication unit that features the ANS/ORG/TEL select switch.
  If the cellular phone communication unit does not have the ANS/ORG/TEL select switch, the line cannot be connected.
  The line connection procedure is different according to the cellular phone company and cellular phone model.
  For details, contact the manufacturer of your cellular phone.

Considerations of programming

■Sample programs, test programs, and sample sequence programs

- Sample programs and test programs
  Sample programs are included for references when creating user programs.
  Test programs are included for conducting communication tests.
  Use the programs with your responsibility.
- Sample sequence programs
  Sample sequence programs included in MX Component require modifications according to the system configuration and parameter settings.
  Modify the program to suit the system.
  Use the programs with your responsibility.

■Forced termination of processes during communication

If communication is performed with the same type of control open for multiple processes, forcing one process to be terminated by Task Manager or the like may stop the other processes at the communication function execution area.

■Error at communication start

A communication error may occur within the preset time-out period at a communication start, for example, when the communication diagnostic button is pressed, when a monitoring is started, or when any function is executed.
These errors are assumed to be detected before a time-out error.
(Example: When the communication cable is not connected or when the programmable controller power is OFF)

■CheckDeviceString

Do not use the CheckDeviceString method of ACT control.

■ActUMsg control and ActUWzd control

Installing MX Component registers the ActUMsg control and the ActUWzd control, however, do not use them.

■Considerations for using Ethernet modules

- Provide an interval longer than the sequence scan time of the Ethernet module mounted station for a period from when the Open method is executed until the Close method is executed.
- Provide an interval of at least 500 ms for a period from when the Close method is executed until the Open method is executed again.

■Considerations for executing the Disconnect function

If a telephone line cannot be disconnected by executing the Disconnect function for some reason, power OFF the modem being used to forcibly disconnect the telephone line.

■Error at building sample programs

- When the message "System.Runtime.InteropServices.COMException was not handled." appears, specify "x86" (32-bit) for the target CPU when creating a program using MX Component.
- When using MX Component in a 64-bit program, consider the method to communicate between a 64-bit program and a 32-bit program using MX Component by referring to the following sample program.
  (Reference) "Sample\64bit" in the CD-ROM

Considerations for using Microsoft Excel

■When controls are not pasted to Excel

This symptom occurs if the cache file (temporary file) of Excel remains.

In such a case, perform the operation in the following procedure.

Operating procedure

1. Close Excel.
2. Delete "*.exd" in the Excel 8.0 folder of the temp folders.
3. Restart Excel.

The location of temp folder differs according to the operating system.

When the corresponding folder and file are not displayed, set the settings in the folder option setting to display all files and folders.

■Resizing of ACT control

Resizing of ACT control in Excel does not affect the operation of MX Component.

To restore the size, set the Height and Width properties of ACT control to "24".

■Considerations for using Excel VBA

Do not set the page feed preview function in the application that uses Excel VBA.

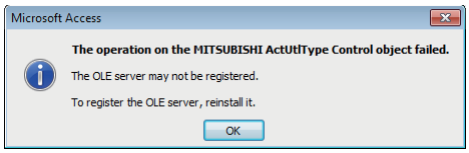
A memory leak or operating system basic operation (file operation, printing, or the like) failure may occur.

Considerations for using Microsoft Access

■When an error message is displayed after pasting ACT control to an Access form and double-clicking the ACT control or selecting the custom control

The following error message is displayed. However, this does not affect the operation of ACT control.

(An error message other than the following message may be displayed.)



■When the displayed property name is collapsed after pasting ACT control and displaying property

This symptom only occurs on the display of the property, and this does not affect the functions of the property.

■Resizing of ACT control

Resizing of ACT control in Access does not affect the operation of MX Component.

To restore the size, set the Height and Width properties of ACT control to "24".

Considerations for using VBScript

■Security of the Internet/intranet when using VBScript

MX Component does not feature the Internet/intranet security function.

When the security function is required, set the setting on the user side.

Considerations for using Robot controller

■When connecting robot controller with USB

For the considerations when connecting a robot controller with USB, refer to the following manual.

📖 CR750/700/500 series RT ToolBox2 / RT ToolBox2 mini User's Manual

When connecting a robot controller with USB, an error does not occur for Open method of the control even when the robot controller cannot be used.

If an error code 106 (connection is disconnected) occurred in the method after executing Open, execute Open again after executing Close.

■Multiplex communication

Do not perform multiplex communication for one robot controller.

INTRODUCTION

Thank you for your patronage. We appreciate your purchase of the engineering software, MELSOFT.
This manual is designed for users to understand operations of MX Component.
Before using the product, thoroughly read this manual and related manuals to develop full familiarity with the functions and performance of MX Component and supported modules to ensure correct use.

CONTENTS

SAFETY PRECAUTIONS 1
CONDITIONS OF USE FOR THE PRODUCT 2
OPERATING CONSIDERATIONS 3
INTRODUCTION 12
RELEVANT MANUALS 19
TERMS 20

CHAPTER 1 OVERVIEW 23

1.1 Outline of Controls 23
1.2 Control and Function Lists 25
Control list 25
Function list 26

CHAPTER 2 CONTROLS 28

2.1 Settings for Using Controls 28
When using VBA 28
When using VBScript 32
When using Visual Studio .NET 33
2.2 Programming Procedure 48
When using VBA 48
When using VBScript 49
When using Visual Basic .NET 50
When using Visual C++ .NET 51
When using Visual C# .NET 53
2.3 Device Types 54
2.4 Accessible Ranges 61

CHAPTER 3 PROPERTIES OF CONTROLS 62

3.1 Property List 62
3.2 Details of Control Properties 64

CHAPTER 4 PROPERTY SETTINGS OF COMMUNICATION PATHS 75

4.1 Serial Communication 75
Serial communication when the connected station is R series-compatible C24 1 75
Serial communication when the connected station is R series-compatible C24 2 78
Serial communication when the connected station is Q series-compatible C24 1 81
Serial communication when the connected station is Q series-compatible C24 2 84
Serial communication when the connected station is L series-compatible C24 1 87
Serial communication when the connected station is L series-compatible C24 2 90
Serial communication when the connected station is FX extended port 92
4.2 Ethernet Communication 94
Ethernet communication when the connected station is R series-compatible E71 (TCP) 94
Ethernet communication when the connected station is R series-compatible E71 (UDP) 97
Ethernet communication when the connected station is Q series-compatible E71 (TCP) 100
Ethernet communication when the connected station is Q series-compatible E71 (UDP) 103
Ethernet communication when the connected station is L series-compatible E71 (TCP) 106
Ethernet communication when the connected station is L series-compatible E71 (UDP) 109
Ethernet communication when the connected station is RCPU (TCP) 112

Ethernet communication when the connected station is RCPU (UDP) . . . 115
Ethernet communication when the connected station is LHCPU (TCP) . . . 118
Ethernet communication when the connected station is LHCPU (UDP) . . . 120
Ethernet communication when the connected station is FX5CPU (TCP) . . . 122
Ethernet communication when the connected station is FX5CPU (UDP) . . . 124
Ethernet communication when the connected station is built-in Ethernet port QCPU (TCP) . . . 126
Ethernet communication when the connected station is built-in Ethernet port QCPU (UDP) . . . 130
Ethernet communication when the connected station is built-in Ethernet port LCPU (TCP) . . . 134
Ethernet communication when the connected station is built-in Ethernet port LCPU (UDP) . . . 137
Ethernet communication when the connected station is Ethernet adapter module (TCP) . . . 140
Ethernet communication when the connected station is Ethernet adapter module (UDP) . . . 144
Ethernet communication when the connected station is Ethernet adapter (TCP) . . . 148
Ethernet communication when the connected station is Ethernet adapter (UDP) . . . 149
Ethernet communication when the connected station is robot controller . . . 150
Ethernet communication when the connected station is CC-Link IE TSN module (TCP) . . . 151
Ethernet communication when the connected station is CC-Link IE TSN module (UDP) . . . 154
4.3 COM Communication . . . 157
CPU COM communication when the connected station is FX5CPU . . . 157
CPU COM communication when the connected station is QCPU (Q mode) . . . 159
CPU COM communication when the connected station is LCPU . . . 162
CPU COM communication when the connected station is Q motion CPU . . . 165
CPU COM communication when the connected station is FXCPU . . . 167
COM communication when the connected station is inverter . . . 169
COM communication when the connected station is robot controller . . . 170
4.4 USB Communication . . . 171
USB communication when the connected station is RCPU . . . 171
USB communication when the connected station is R motion CPU . . . 174
USB communication when the connected station is LHCPU . . . 176
USB communication when the connected station is QCPU (Q mode) . . . 178
USB communication when the connected station is LCPU . . . 182
USB communication when the connected station is QSCPU . . . 185
USB communication when the connected station is Q motion CPU . . . 186
USB communication when the connected station is FXCPU . . . 187
USB communication when the connected station is inverter . . . 188
USB communication when the connected station is robot controller . . . 189
4.5 MELSECNET/H Communication . . . 190
4.6 CC-Link IE Controller Network Communication . . . 193
CC-Link IE Controller Network communication when the connected station is an RCPU . . . 193
CC-Link IE Controller Network communication when the connected station is a module supporting Q series . . . 195
4.7 CC-Link IE Field Network Communication . . . 198
CC-Link IE Field Network communication when the connected station is an RCPU . . . 198
CC-Link IE Field Network communication when the connected station is a module supporting QCPU (Q mode) or LCPU . . . 200
4.8 CC-Link Communication . . . 203
CC-Link communication when the connected station is an RCPU . . . 203
CC-Link communication when the connected station is an LCPU . . . 205
CC-Link communication when the connected station is a module supporting Q series . . . 207
4.9 CC-Link G4 communication . . . 210
4.10 GX Simulator Communication . . . 213
4.11 GX Simulator2 Communication . . . 213

4.12 GX Simulator3 Communication . . . 214
4.13 MT Simulator2 Communication . . . 214
4.14 Modem Communication . . . 215
Modem communication when the connected module is Q series-compatible C24 1 . . . 215
Modem communication when the connected module is Q series-compatible C24 2 . . . 218
Modem communication when the connected module is L series-compatible C24 1 . . . 221
Modem communication when the connected module is L series-compatible C24 2 . . . 224
Modem communication when the connected station is FXCPU . . . 226
4.15 Gateway Function Communication . . . 228
4.16 GOT Transparent Communication . . . 229
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 1 . . . 229
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 2 . . . 231
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 3 . . . 234
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 4 . . . 237
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 1 . . . 239
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 2 . . . 241
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 3 . . . 243
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 4 . . . 246
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Bus connection . . . 248
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Bus connection . . . 251
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 1 . . . 254
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 2 . . . 257
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 3 . . . 259
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 4 . . . 261
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 5 . . . 263
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 6 . . . 265
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 1 . . . 267
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 2 . . . 270
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 3 . . . 272
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 4 . . . 274
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 5 . . . 276
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 6 . . . 278
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: R series-compatible E71 . . . 280
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Q series-compatible E71 . . . 283
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: L series-compatible E71 . . . 286
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: R series-compatible E71 . . . 289
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Q series-compatible E71 . . . 292

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: L series-compatible E71 . . . 295
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 1 . . . 298
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 2 . . . 301
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 3 . . . 303
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 4 . . . 306
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 1 . . . 309
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 2 . . . 312
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 3 . . . 314
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 4 . . . 317
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet adapter module . . . 320
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet adapter module . . . 324
Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet adapter/module 1 . . . 328
Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet adapter/module 1 . . . 330
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 1 . . . 332
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 2 . . . 334
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 3 . . . 337
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 4 . . . 340
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial communication module 1 . . . 341
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial communication module 2 . . . 344
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial communication module 3 . . . 347
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Bus connection . . . 350
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Ethernet port . . . 353
Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Q series-compatible E71 . . . 355
4.17 Q Series Bus Communication . . . 357

CHAPTER 5 FUNCTIONS 358

5.1 Programming Considerations . . . 359
5.2 Details of Functions (For ACT Control) . . . 363
Open (Opening communication line) . . . 363
Close (Closing communication line) . . . 365
ReadDeviceBlock (Reading devices in bulk) . . . 366
WriteDeviceBlock (Writing devices in bulk) . . . 369
ReadDeviceRandom (Reading devices randomly) . . . 373
WriteDeviceRandom (Writing devices randomly) . . . 376
SetDevice (Set device data) . . . 379
GetDevice (Acquiring device data) . . . 381

ReadBuffer (Reading data from buffer memory) . . . 384
WriteBuffer (Writing data to buffer memory) . . . 389
GetClockData (Reading clock data) . . . 393
SetClockData (Writing clock data) . . . 397
GetCpuType (Reading programmable controller CPU model) . . . 401
SetCpuStatus (Remote control) . . . 405
EntryDeviceStatus (Registering devices for status monitoring) . . . 408
FreeDeviceStatus (Deregistering devices for status monitoring) . . . 412
OnDeviceStatus (Event notification) . . . 413
ReadDeviceBlock2 (Reading devices in bulk) . . . 415
WriteDeviceBlock2 (Writing devices in bulk) . . . 418
ReadDeviceRandom2 (Reading devices randomly) . . . 421
WriteDeviceRandom2 (Writing devices randomly) . . . 424
SetDevice2 (Set device data) . . . 427
GetDevice2 (Acquiring device data) . . . 430
Connect (Connecting telephone line) . . . 432
Disconnect (Disconnecting telephone line) . . . 434
GetErrorMessage (Receiving error message) . . . 436
5.3 Details of Functions (For ACT Control (Logging File Transfer)) . . . 438
Open (Opening communication line) . . . 438
Close (Closing communication line) . . . 439
ReadFirstFile (Searching for a file/directory) . . . 440
ReadNextFile (Searching for a file/directory) . . . 442
ReadClose (Ending the search) . . . 444
GetFile (Transferring logging files) . . . 445
5.4 Details of Functions (For .NET Control) . . . 446
Open (Opening communication line) . . . 446
Close (Closing communication line) . . . 447
ReadDeviceBlock (Reading devices in bulk) . . . 448
WriteDeviceBlock (Writing devices in bulk) . . . 452
ReadDeviceRandom (Reading devices randomly) . . . 457
WriteDeviceRandom (Writing devices randomly) . . . 463
SetDevice (Set device data) . . . 469
GetDevice (Acquiring device data) . . . 472
ReadBuffer (Reading data from buffer memory) . . . 475
WriteBuffer (Write data to buffer memory.) . . . 477
GetClockData (Reading clock data) . . . 479
SetClockData (Writing clock data) . . . 481
GetCpuType (Reading programmable controller CPU model) . . . 483
SetCpuStatus (Remote control) . . . 484
EntryDeviceStatus (Registering devices for status monitoring) . . . 485
FreeDeviceStatus (Deregistering devices for status monitoring) . . . 488
OnDeviceStatus (Event notification) . . . 489
ReadDeviceBlock2 (Reading devices in bulk) . . . 491
WriteDeviceBlock2 (Writing devices in bulk) . . . 495
ReadDeviceRandom2 (Reading devices randomly) . . . 499
WriteDeviceRandom2 (Writing devices randomly) . . . 505
SetDevice2 (Set device data) . . . 511
GetDevice2 (Acquiring device data) . . . 514
Connect (Connecting telephone line) . . . 517
Disconnect (Disconnecting telephone line) . . . 519

GetErrorMessage (Receiving error message) . . . 521

CHAPTER 6 SAMPLE PROGRAMS 522

6.1 VBA Sample Programs . . . 526
Sample program for Excel . . . 526
Sample program for Excel (Reading/writing devices) . . . 528
Sample program for Access . . . 530
6.2 VBScript Sample Program . . . 532
6.3 ASP Sample Programs . . . 533
6.4 Visual Basic .NET Sample Programs . . . 536
Modem communication sample program . . . 536
Read/Write sample program . . . 538
Type conversion sample program . . . 541
Logging file transfer sample program . . . 543
6.5 Visual C++ .NET Sample Programs . . . 544
Read/Write sample program . . . 544
Troubleshooting function sample program . . . 545
6.6 Visual C# .NET Sample Programs . . . 546
Read/Write sample program . . . 546
Logging file transfer sample program . . . 546
6.7 Visual C++ .NET (MFC) Sample Programs . . . 547
Dispatch interface . . . 547
Custom interface . . . 549
Troubleshooting function sample program . . . 550
Logging file transfer sample program . . . 551

CHAPTER 7 ERROR CODES 552

7.1 Error Codes Returned by Controls . . . 552
7.2 Error Codes Returned by CPUs, Modules, and Network Boards . . . 580
7.3 HRESULT Type Error Codes . . . 581
7.4 Error Codes Displayed on Event Viewer . . . 581

APPENDIX 582

Appendix 1 Connection System of Callback Function . . . 582
Appendix 2 Programming Examples for Monitoring Word Device Status . . . 583
Appendix 3 Time-Out Periods . . . 586
Communication retries at time-out error occurrence . . . 586
Communication retries at receive data error occurrence . . . 600
Time-out errors at fixed time in ACT control . . . 604
Appendix 4 Troubleshooting . . . 610
Error occurred in the setting for using controls in Visual Studio .NET . . . 610
Link error occurred when creating a user application in Visual C++ .NET . . . 610
The unstart error occurred during communication with GX Simulator3 . . . 611
A build error occurred when using a sample program created in Visual Studio 2017 . . . 611
REVISIONS . . . 612
WARRANTY . . . 613
TRADEMARKS . . . 614

RELEVANT MANUALS

Manual name [manual number]	Description	Available form
MX Component Version 4 Programming Manual [SH-081085ENG] (this manual)	Explains the programming procedures, detailed explanations and error codes of the ACT controls.	Print book PDF
MX Component Version 4 Operating Manual [SH-081084ENG]	Explains the setting and operation methods of each utility on MX Component.	Print book PDF
Type Q80BD-J61BT11N/Q81BD-J61BT11 CC-Link System Master/Local Interface Board User's Manual (For SW1DNC-CCBD2-B) [SH-080527ENG]	Explains the system configuration, specifications, functions, handling, wiring, and troubleshooting of the type Q80BD-J61BT11N/Q81BD-J61BT11 CC-Link system master/local interface board.	Print book PDF
MELSECNET/H Interface Board User's Manual (For SW0DNC-MNETH-B) [SH-080128]	Explains the system configuration, specifications, functions, handling, wiring, and troubleshooting of the MELSECNET/H board.	Print book PDF
CC-Link IE Controller Network Interface Board User's Manual (For SW1DNC-MNETG-B) [SH-080691ENG]	Explains the system configuration, specifications, functions, handling, wiring, and troubleshooting of the CC-Link IE Controller Network board.	Print book PDF
CC-Link IE Field Network Interface Board User's Manual (For SW1DNC-CCIEF-B) [SH-080980ENG]	Explains the system configuration, specifications, functions, handling, wiring, and troubleshooting of the CC-Link IE Field Network board.	Print book e-Manual PDF
MELSEC-Q C Controller Module User's Manual [SH-081130ENG]	Explains the system configuration, specifications, functions, handling, wiring, troubleshooting, and programming and function of Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG, Q26DHCCPU-LS, and Q12DCCPU-V (Extended mode).	Print book e-Manual PDF
C Controller Module User's Manual (Hardware Design, Function Explanation) [SH-080766ENG]	Explains the system configuration, specifications, functions, handling, wiring, and troubleshooting of Q12DCCPU-V (Basic mode) and Q06CCPU-V.	Print book PDF
GX Simulator Version 7 Operating Manual [SH-080468ENG]	Explains the setting and operating method for monitoring the device memory and simulating the machine side operations using GX Simulator.	Print book PDF
GX Works2 Version 1 Operating Manual (Common) [SH-080779ENG]	Explains the system configuration of GX Works2 and the functions common to a Simple project and Structured project such as parameter setting, operation method for the online function.	Print book PDF

Point

e-Manual refers to the Mitsubishi Electric FA electronic book manuals that can be browsed using a dedicated tool.

e-Manual has the following features:

- Required information can be cross-searched in multiple manuals.
- Other manuals can be accessed from the links in the manual.
- Hardware specifications of each part can be found from the product figures.
- Pages that users often browse can be bookmarked.
- Sample programs can be copied to an engineering tool.

TERMS

Unless otherwise specified, this manual uses the following terms.

Term	Description
.NET control	Generic term for .NET control provided by MX Component.
Access	Abbreviation for Microsoft Access 2003, Microsoft Access 2007, Microsoft Access 2010 (32-bit version), Microsoft Access 2013 (32-bit version), Microsoft Access 2016 (32-bit version), and Microsoft Access 2019 (32-bit version).
ACT control	Generic term for ActiveX control provided by MX Component.
Built-in Ethernet CPU	Generic term for RCPU, LHCPU, built-in Ethernet port QCPU, LCPU and FX5CPU.
Built-in Ethernet port QCPU	Generic term for Q03UDE, Q03UDV, Q04UDEH, Q04UDV, Q06UDEH, Q06UDV, Q10UDEH, Q13UDEH, Q13UDV, Q20UDEH, Q26UDEH, Q26UDV, Q50UDEH, and Q100UDEH.
C Controller module	Generic term for R12CCPU-V, Q12DCCPU-V (Basic mode), Q12DCCPU-V (Extended mode), Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG, and Q26DHCCPU-LS.
CC-Link communication	Abbreviation for communication with programmable controller CPU using CC-Link Ver.2 board.
CC-Link G4 communication	Abbreviation for communication with programmable controller CPU using CC-Link G4 module.
CC-Link G4 module	Abbreviation for AJ65BT-G4-S3 GPP function peripheral connection module.
CC-Link IE Controller Network board	Generic term for Q80BD-J71GP21-SX, Q80BD-J71GP21S-SX, and NZ81GP21-SX. Abbreviation for CC-Link IE Controller Network interface board.
CC-Link IE Controller Network communication	Abbreviation for communication with programmable controller CPU using CC-Link IE Controller Network board.
CC-Link IE Field Network board	Abbreviation for Q81BD-J71GF11-T2 CC-Link IE Field Network interface board.
CC-Link IE Field Network communication	Abbreviation for communication with programmable controller CPU using CC-Link IE Field Network board.
CC-Link IE TSN module	Another term for RJ71GN11-T2.
CC-Link Ver.2 board	Generic term for Q80BD-J61BT11N and Q81BD-J61BT11. Abbreviation for CC-Link system master/local interface board.
CPU COM communication	Abbreviation of communication performed by connecting the personal computer to the RS-232 or RS-422 connector of programmable controller CPU.
CPU USB communication	Abbreviation for communication by connecting personal computer to the USB connector of programmable controller CPU.
Ethernet adapter module	Abbreviation for NZ2GF-ETB CC-Link IE Field Network Ethernet adapter module.
Ethernet adapter/module	Generic term for FX3U-ENET-ADP and FX3U-ENET(-L).
Ethernet communication	Abbreviation for communication by connecting the personal computer to Ethernet module or the built-in Ethernet CPU.
Ethernet module	Generic term for R series-compatible E71, Q series-compatible E71, and L series-compatible E71.
Excel	Abbreviation for Microsoft Excel 2003, Microsoft Excel 2007, Microsoft Excel 2010 (32-bit version), Microsoft Excel 2013 (32-bit version), Microsoft Excel 2016 (32-bit version), and Microsoft Excel 2019 (32-bit version).
FX extended port	Generic term for FX0N-485ADP, FX2NC-485ADP, FX1N-485-BD, FX2N-485-BD, FX3G-485-BD, FX3U-485-BD, and FX3U-485ADP.
FX5CPU	Generic term for FX5U and FX5UC.
FXCPU	Generic term for FX0, FX0S, FX0N, FX1, FX1N, FX1NC, FX1S, FXU, FX2C, FX2N, FX2NC, FX3S, FX3G, FX3GC, FX3U, and FX3UC.
Gateway function communication	Abbreviation for communication with programmable controller CPU and third-party programmable controllers using the gateway functions of GOT.
GOT	Abbreviation for Graphic Operation Terminal.
GOT transparent communication	Abbreviation for communication with programmable controller CPU using the GOT transparent functions of GOT.
GOT1000	Abbreviation for Graphic Operation Terminal GOT1000 series.
GOT2000	Abbreviation for Graphic Operation Terminal GOT2000 series.
GOT900	Abbreviation for Graphic Operation Terminal GOT900 series.
GX Developer	Generic product name for SWnD5C-GPPW-E, SWnD5C-GPPW-EA, SWnD5C-GPPW-EV, and SWnD5C-GPPW-EVA. (n: version) -EA indicates a volume-license product, and -EV an updated product.
GX Simulator	Generic product name for SWnD5C-LLT-E, SWnD5C-LLT-EA, SWnD5C-LLT-EV, and SWnD5C-LLT-EVA. (n: version) -EA means a volume-license product, and -EV an updated product.
GX Simulator communication	Abbreviation for communication with GX Simulator.
GX Simulator2 communication	Abbreviation for communication using the simulation function of GX Works2.
GX Simulator3 communication	Abbreviation for communication using the simulation functions of GX Works3.
GX Works2	Generic product name for SWnDNC-GXW2 and SWnDND-GXW2. (n: version)
GX Works3	Generic product name for SWnDND-GXW3. (n: version)

Term	Description
Inverter	Abbreviation for FREQROL-A800 series.
Inverter COM communication	Abbreviation for communication by connecting the inverter to the COM port of personal computer.
Inverter USB communication	Abbreviation for communication by connecting the inverter to the USB port of personal computer.
L series-compatible C24	Generic term for LJ71C24 and LJ71C24-R2.
L series-compatible E71	Another term for LJ71E71.
LCPU	Generic term for L02S, L02, L06, L26, and L26-BT.
LHCPU	Generic term for L04H, L08H, and L16H.
Logging file	A file where device data sampled from a programmable controller CPU is stored.
MELSECNET/H board	Generic term for Q80BD-J71LP21-25, Q80BD-J71LP21S-25, Q81BD-J71LP21-25, Q80BD-J71LP21G, and Q80BD-J71BR11. Abbreviation for MELSECNET/H interface board.
MELSECNET/H communication	Abbreviation for communication with programmable controller CPU using MELSECNET/H board.
Modem communication	Abbreviation for communication with programmable controller CPU via modems using Q series-compatible C24, L series-compatible C24 or FXCPU.
MT Developer2	Generic product name for SWnDNC-MTW2. (n: version)
MT Simulator2 communication	Abbreviation for communication using the simulation function of MT Developer2.
MX Component	Generic product name for SWnDNC-ACT-E and SWnDNC-ACT-EA. (n: version) -EA indicates a volume-license product.
PC CPU module	Abbreviation for MELSEC Q series-compatible PC CPU module (CONTEC CO., LTD.product).
Personal computer	Generic term for personal computers on which Windows® operates.
Program setting type	A development type for creating user programs without using Communication Setup Utility.
Programmable controller CPU	Generic term for RCPU, LHCPU, QCPU (Q mode), LCPU, FX5CPU, FXCPU, R motion CPU, Q motion CPU, QSCPU, and C Controller module.
Q motion CPU	Generic term for Q172, Q173, Q172H, Q173H, Q172D, Q173D, Q172DS, and Q173DS.
Q series bus communication	Abbreviation for communication with programmable controller CPU on the same base using PC CPU module.
Q series-compatible C24	Generic term for QJ71C24, QJ71C24-R2, QJ71C24N, QJ71C24N-R2, and QJ71C24N-R4.
Q series-compatible E71	Generic term for QJ71E71, QJ71E71-B2, QJ71E71-B5, and QJ71E71-100.
Q12DCCPU-V (Basic mode)	Status that Q12DCCPU-V is initialized with the basic mode. For Q12DCCPU-V (Basic mode), refer to the following manual. 📖C Controller Module User's Manual (Hardware Design, Function Explanation)
Q12DCCPU-V (Extended mode)	Status that Q12DCCPU-V is initialized with the extended mode. For Q12DCCPU-V (Extended mode), refer to the following manual. 📖MELSEC-Q C Controller Module User's Manual
QCCPU	Generic term for Q12DCCPU-V (Basic mode), Q12DCCPU-V (Extended mode), Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG, and Q26DHCCPU-LS.
QCPU (Q mode)	Generic term for Q00J, Q00UJ, Q00, Q00U, Q01, Q01U, Q02, Q02H, Q02PH, Q02U, Q03UD, Q03UDE, Q03UDV, Q04UDH, Q04UDEH, Q04UDV, Q06H, Q06PH, Q06UDH, Q06UDEH, Q06UDV, Q10UDH, Q10UDEH, Q12H, Q12PH, Q12PRH, Q13UDH, Q13UDEH, Q13UDV, Q20UDH, Q20UDEH, Q25H, Q25PH, Q25PRH, Q26UDH, Q26UDEH, Q26UDV, Q50UDEH, and Q100UDEH.
QnPRH	Generic term for Q12PRH and Q25PRH.
QSCPU	Abbreviation for a safety CPU module (QS001CPU).
R motion CPU	Generic term for R16MT and R32MT.
R series-compatible C24	Generic term for RJ71C24, RJ71C24-R2, and RJ71C24-R4.
R series-compatible E71	Another term for RJ71EN71.
RCCPU	Another term for R12CCPU-V.
RCPU	Generic term for R00, R01, R02, R04, R04EN, R08, R08EN, R08P, R08PSF, R08SF, R16, R16EN, R16P, R16PSF, R16SF, R32, R32EN, R32P, R32PSF, R32SF, R120, R120EN, R120P, R120PSF, and R120SF.
Redundant CPU	Generic term for QnPRH, RnPCPU, and RnPSFCPU.
Redundant type extension base unit	Abbreviation for Q65WRB extension base unit for redundant system.
RnCPU	Generic term for R00, R01, R02, R04, R08, R16, R32, and R120.
RnENCPU	Generic term for R04EN, R08EN, R16EN, R32EN and R120EN.
RnPCPU	Generic term for R08P, R16P, R32P and R120P.
RnPSFCPU	Generic term for R08PSF, R16PSF, R32PSF, and R120PSF.
RnSFCPU	Generic term for R08SF, R16SF, R32SF and R120SF.
Robot controller	Abbreviation for CR750-D/CRnD-700 series.

Term	Description
Robot controller COM communication	Abbreviation for communication by connecting the robot controller to the COM port of personal computer.
Robot controller Ethernet communication	Abbreviation for communication by connecting the robot controller and personal computer to Ethernet.
Robot controller USB communication	Abbreviation for communication by connecting the robot controller to the USB port of personal computer.
Serial communication	Abbreviation for communication with programmable controller CPU using the serial communication module.
Serial communication module	Generic term for R series-compatible C24, Q series-compatible C24, L series-compatible C24, and FX extended port.
Utility setting type	A development type for creating user programs using Communication Setup Utility.
Visual Basic®.NET	Generic term for Visual Basic version Microsoft Visual Studio® 2005, Microsoft Visual Studio 2008, Microsoft Visual Studio 2010, Microsoft Visual Studio 2012, Microsoft Visual Studio 2013, Microsoft Visual Studio 2015, and Microsoft Visual Studio 2017.
Visual C#®.NET	Generic term for Visual C# version Microsoft Visual Studio 2005, Microsoft Visual Studio 2008, Microsoft Visual Studio 2010, Microsoft Visual Studio 2012, Microsoft Visual Studio 2013, Microsoft Visual Studio 2015, and Microsoft Visual Studio 2017.
Visual C++®.NET	Abbreviation for creation of an application using .NET Framework.
Visual C++®.NET(MFC)	Abbreviation for creation of an application using MFC/ATL/Win32.

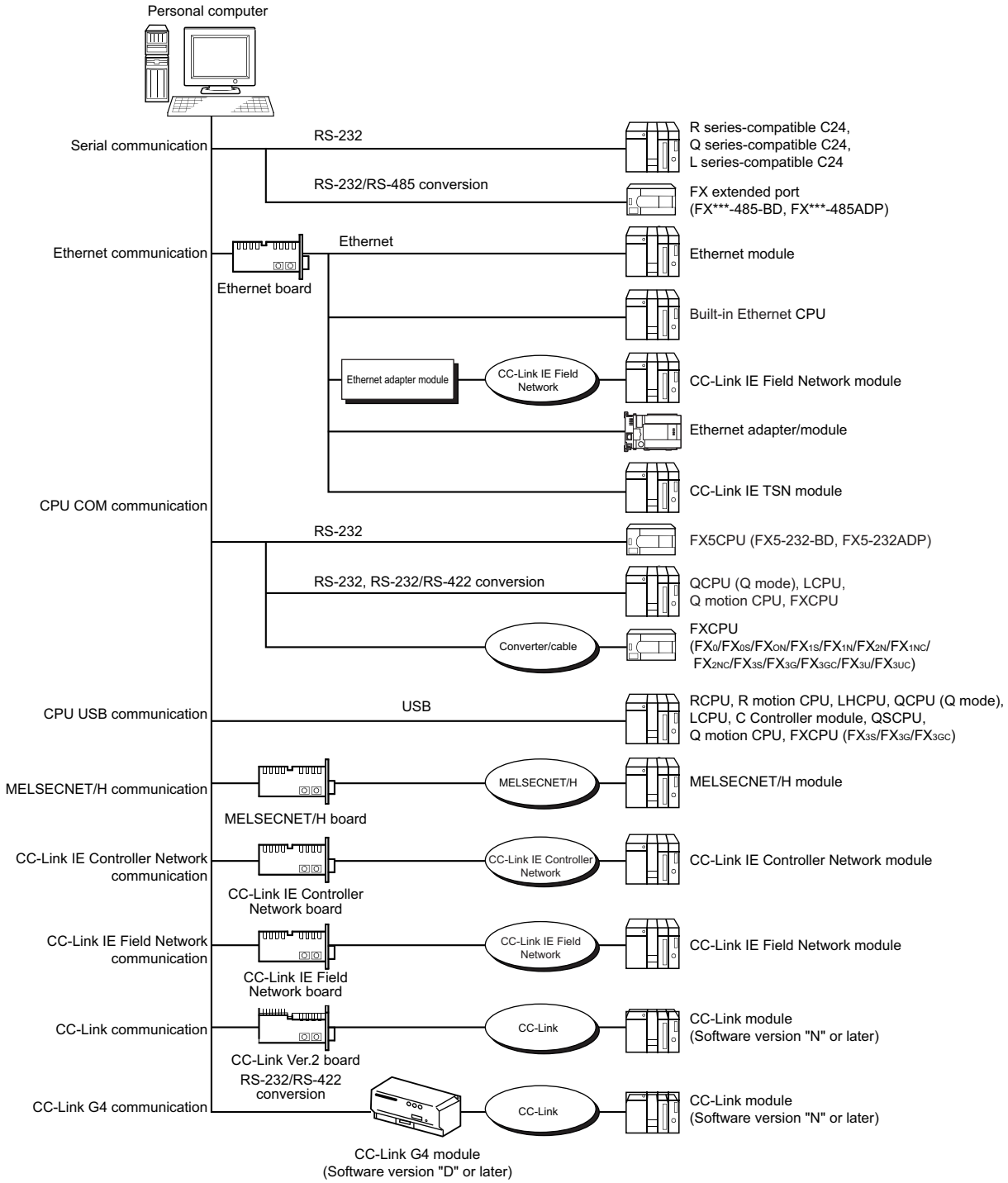
1 OVERVIEW

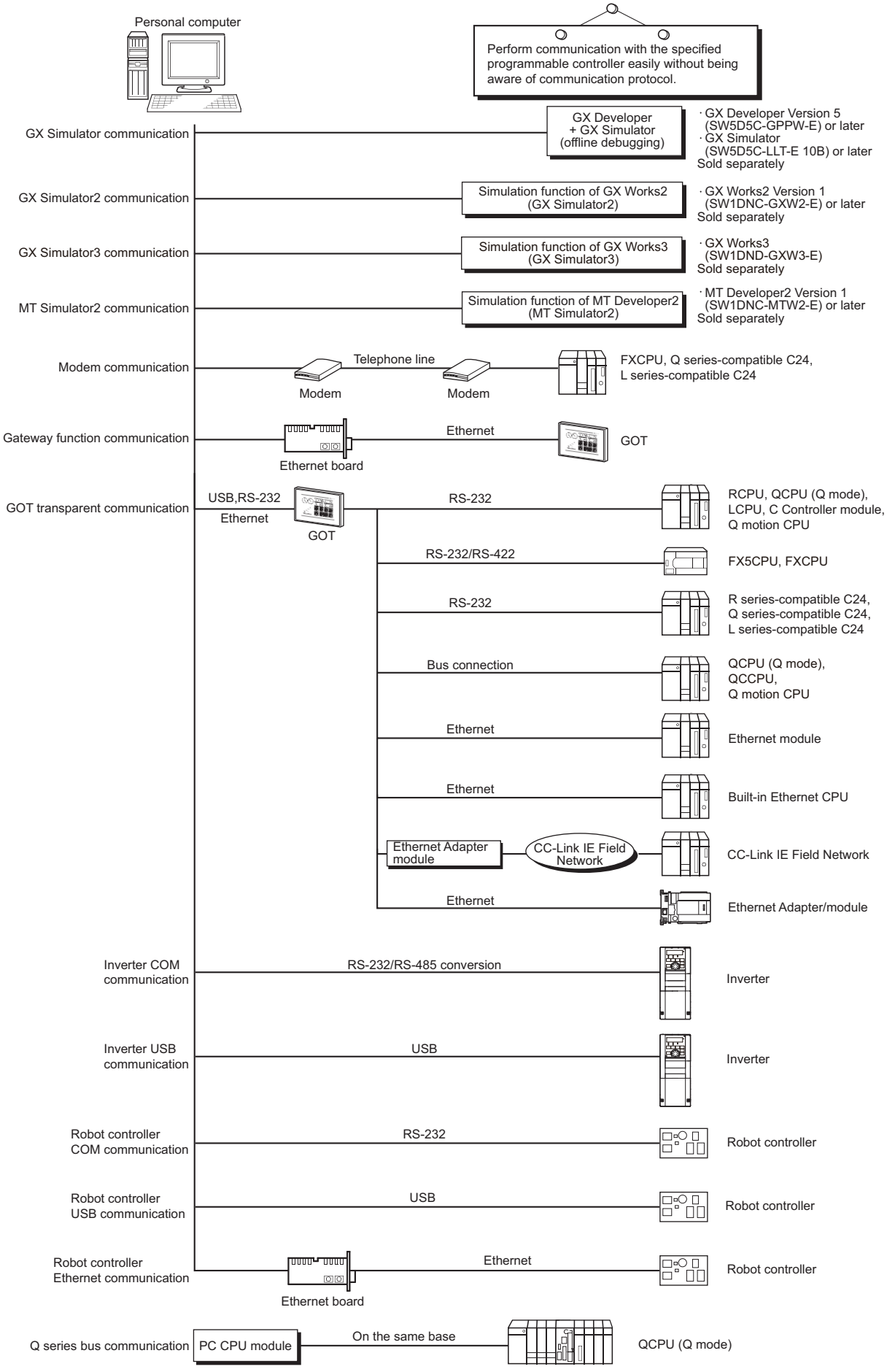
This manual explains the procedure and the error codes when creating programs with MX Component.

1.1 Outline of Controls

This section explains the outline of controls supported by MX Component.

These controls are used to create user programs to communicate with a programmable controller CPU. A user can communicate with programmable controller CPUs without being aware of the hardware and the communication protocol on the other end.




Personal computer
Perform communication with the specified programmable controller easily without being aware of communication protocol.
GX Simulator communication
GX Developer + GX Simulator (offline debugging)
· GX Developer Version 5 (SW5D5C-GPPW-E) or later
· GX Simulator (SW5D5C-LLT-E 10B) or later
Sold separately
GX Simulator2 communication
Simulation function of GX Works2 (GX Simulator2)
· GX Works2 Version 1 (SW1DNC-GXW2-E) or later
Sold separately
GX Simulator3 communication
Simulation function of GX Works3 (GX Simulator3)
· GX Works3 (SW1DND-GXW3-E)
Sold separately
MT Simulator2 communication
Simulation function of MT Developer2 (MT Simulator2)
· MT Developer2 Version 1 (SW1DNC-MTW2-E) or later
Sold separately
Modem communication
Telephone line
Modem
Modem
FXCPU, Q series-compatible C24, L series-compatible C24
Gateway function communication
Ethernet
Ethernet board
GOT
GOT transparent communication
USB,RS-232
Ethernet
GOT
RS-232
RCPU, QCPU (Q mode), LCPU, C Controller module, Q motion CPU
RS-232/RS-422
FX5CPU, FXCPU
RS-232
R series-compatible C24, Q series-compatible C24, L series-compatible C24
Bus connection
QCPU (Q mode), QCCPU, Q motion CPU
Ethernet
Ethernet module
Ethernet
Built-in Ethernet CPU
Ethernet Adapter module
CC-Link IE Field Network
CC-Link IE Field Network
Ethernet
Ethernet Adapter/module
Inverter COM communication
RS-232/RS-485 conversion
Inverter
Inverter USB communication
USB
Inverter
Robot controller COM communication
RS-232
Robot controller
Robot controller USB communication
USB
Robot controller
Robot controller Ethernet communication
Ethernet
Ethernet board
Robot controller
Q series bus communication
PC CPU module
On the same base
QCPU (Q mode)

1.2 Control and Function Lists

This section shows the lists of controls and functions.

Control list

The following tables show the controls included in each DLL supported by MX Component.

ACT control

The following table shows the ActiveX controls supported by MX Component.

Data can be accessed using devices.

DLL name	Included control name		Application
	For VB, VC++, VC#, VBA	For VBScript	
ActUtlType.dll	ActUtlType	ActMLUtlType*1	A utility setting type control. It is used to create a user program using Communication Setup Utility.
ActProgType.dll*2	ActProgType	ActMLProgType*1	A program setting type control. It is used to create a user program without using Communication Setup Utility.
ActSupportMsg.dll	ActSupportMsg	ActMLSupportMsg	Used for the troubleshooting function.

*1 Communication is disabled if the communication path is a modem.

*2 Not applicable to inverter communication/robot controller communication.

ACT Control (logging file transfer)

The following table shows the ActiveX controls for transferring logging files supported by MX Component.

Do not use the controls while the logging function of a CPU module is in operation.

DLL name	Included control name		Application
	For VB, VC++, VC#, VBA	For VBScript	
ActUtlDataLogging.dll	ActUtlDataLogging	Not supported	A utility setting type control. It is used to transfer a logging file. It operates with a logical station number which is created in Communication Setup Utility.
ActProgDataLogging.dll	ActProgDataLogging	Not supported	A program setting type control. It is used to transfer a logging file. It operates with the property of the control.

.NET control

The following table shows the .NET controls supported by MX Component.

Data can be accessed using labels.

DLL name	Included control name	Application
	For VB, VC++, VC#	
MITSUBISHI.Component.DotUtlType.dll	DotUtlType	A utility setting type control. It is used to create a user program using Communication Setup Utility.
MITSUBISHI.Component.DotSupportMsg.dll	DotSupportMsg	Used for the troubleshooting function.

Function list

The following table shows the features of the functions and the functions that can be used for the controls.

Function name	Feature	Refer[*1]
Open	Open a communication line.	Act: Page 363 Open (Opening communication line) DataLogging: Page 438 Open (Opening communication line) Dot: Page 446 Open (Opening communication line)
Close	Close a communication line.	Act: Page 365 Close (Closing communication line) DataLogging: Page 439 Close (Closing communication line) Dot: Page 447 Close (Closing communication line)
ReadDeviceBlock	Read devices in bulk. (4-byte data)	Act: Page 366 ReadDeviceBlock (Reading devices in bulk) Dot: Page 448 ReadDeviceBlock (Reading devices in bulk)
WriteDeviceBlock	Write devices in bulk. (4-byte data)	Act: Page 369 WriteDeviceBlock (Writing devices in bulk) Dot: Page 452 WriteDeviceBlock (Writing devices in bulk)
ReadDeviceRandom	Read devices randomly. (4-byte data)	Act: Page 373 ReadDeviceRandom (Reading devices randomly) Dot: Page 457 ReadDeviceRandom (Reading devices randomly)
WriteDeviceRandom	Write devices randomly. (4-byte data)	Act: Page 376 WriteDeviceRandom (Writing devices randomly) Dot: Page 463 WriteDeviceRandom (Writing devices randomly)
SetDevice	Set one point of device. (4-byte data)	Act: Page 379 SetDevice (Set device data) Dot: Page 469 SetDevice (Set device data)
GetDevice	Acquire data of one point of device. (4-byte data)	Act: Page 381 GetDevice (Acquiring device data) Dot: Page 472 GetDevice (Acquiring device data)
ReadBuffer	Read data from buffer memory.	Act: Page 384 ReadBuffer (Reading data from buffer memory) Dot: Page 475 ReadBuffer (Reading data from buffer memory)
WriteBuffer	Write data to buffer memory.	Act: Page 389 WriteBuffer (Writing data to buffer memory) Dot: Page 477 WriteBuffer (Write data to buffer memory.)
GetClockData	Read clock data from programmable controller CPU.	Act: Page 393 GetClockData (Reading clock data) Dot: Page 479 GetClockData (Reading clock data)
SetClockData	Write clock data to programmable controller CPU.	Act: Page 397 SetClockData (Writing clock data) Dot: Page 481 SetClockData (Writing clock data)
GetCpuType	Read programmable controller CPU model.	Act: Page 401 GetCpuType (Reading programmable controller CPU model) Dot: Page 483 GetCpuType (Reading programmable controller CPU model)
SetCpuStatus	Remote RUN/STOP/PAUSE of programmable controller CPU.	Act: Page 405 SetCpuStatus (Remote control) Dot: Page 484 SetCpuStatus (Remote control)
EntryDeviceStatus	Register device status monitor.	Act: Page 408 EntryDeviceStatus (Registering devices for status monitoring) Dot: Page 485 EntryDeviceStatus (Registering devices for status monitoring)
FreeDeviceStatus	Deregister device status monitor.	Act: Page 412 FreeDeviceStatus (Deregistering devices for status monitoring) Dot: Page 488 FreeDeviceStatus (Deregistering devices for status monitoring)
OnDeviceStatus	Announce event.	Act: Page 413 OnDeviceStatus (Event notification) Dot: Page 489 OnDeviceStatus (Event notification)
ReadDeviceBlock2	Read devices in bulk. (2-byte data)	Act: Page 415 ReadDeviceBlock2 (Reading devices in bulk) Dot: Page 495 WriteDeviceBlock2 (Writing devices in bulk)
WriteDeviceBlock2	Write devices in bulk. (2-byte data)	Act: Page 418 WriteDeviceBlock2 (Writing devices in bulk) Dot: Page 495 WriteDeviceBlock2 (Writing devices in bulk)
ReadDeviceRandom2	Read devices randomly. (2-byte data)	Act: Page 421 ReadDeviceRandom2 (Reading devices randomly) Dot: Page 499 ReadDeviceRandom2 (Reading devices randomly)
WriteDeviceRandom2	Write devices randomly. (2-byte data)	Act: Page 424 WriteDeviceRandom2 (Writing devices randomly) Dot: Page 505 WriteDeviceRandom2 (Writing devices randomly)
SetDevice2	Set one point of device. (2-byte data)	Act: Page 427 SetDevice2 (Set device data) Dot: Page 511 SetDevice2 (Set device data)
GetDevice2	Acquire data of one point of device. (2-byte data)	Act: Page 430 GetDevice2 (Acquiring device data) Dot: Page 514 GetDevice2 (Acquiring device data)
Connect	Connect a telephone line.	Act: Page 432 Connect (Connecting telephone line) Dot: Page 517 Connect (Connecting telephone line)
Disconnect	Disconnect a telephone line	Act: Page 434 Disconnect (Disconnecting telephone line) Dot: Page 519 Disconnect (Disconnecting telephone line)
GetErrorMessage	Display error definition and corrective action.	Act: Page 436 GetErrorMessage (Receiving error message) Dot: Page 521 GetErrorMessage (Receiving error message)
ReadFirstFile	Search for a directly name/file name.	DataLogging: Page 440 ReadFirstFile (Searching for a file/directory)
ReadNextFile	Search for a directly name/file name.	DataLogging: Page 442 ReadNextFile (Searching for a file/directory)
ReadClose	End the search.	DataLogging: Page 444 ReadClose (Ending the search)

Function name	Feature	Refer*1
GetFile	Transfer a logging file.	DataLogging: Page 445 GetFile (Transferring logging files)

*1 Act: For ACT controls, DataLogging: For ACT controls (logging file transfer), Dot: For .NET controls

Point

- Considerations for using RnSFCPU
  In order to protect the safety programmable controller system, the "write to buffer memory" and "write to safety devices in safety mode" functions cannot be executed.
- Considerations for using QSCPU
  In order to protect the safety programmable controller system, an error code is returned when a function to write data to buffer memory, write/set devices, or write clock data is executed.

2 CONTROLS

This chapter explains settings for using controls, programming procedure, device types, and applicable access ranges.

2.1 Settings for Using Controls

This section explains the settings for using controls.

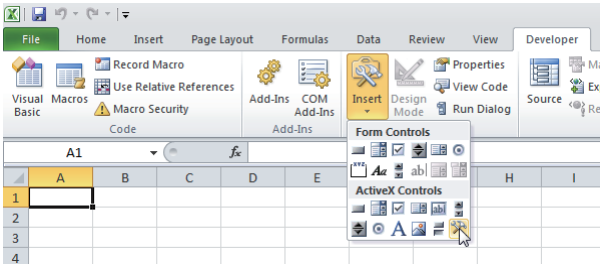
When using VBA

Perform the following setting operation when using VBA.

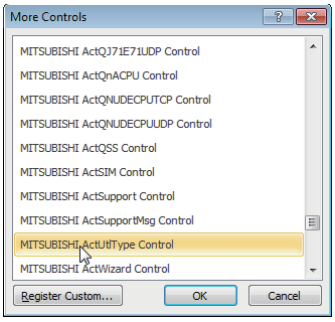
When using Microsoft Excel 2010

Operating procedure

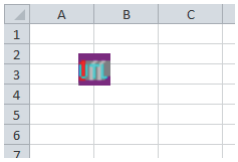
1. Start Excel, select [Insert] on the [Developer] tab, and click the button.



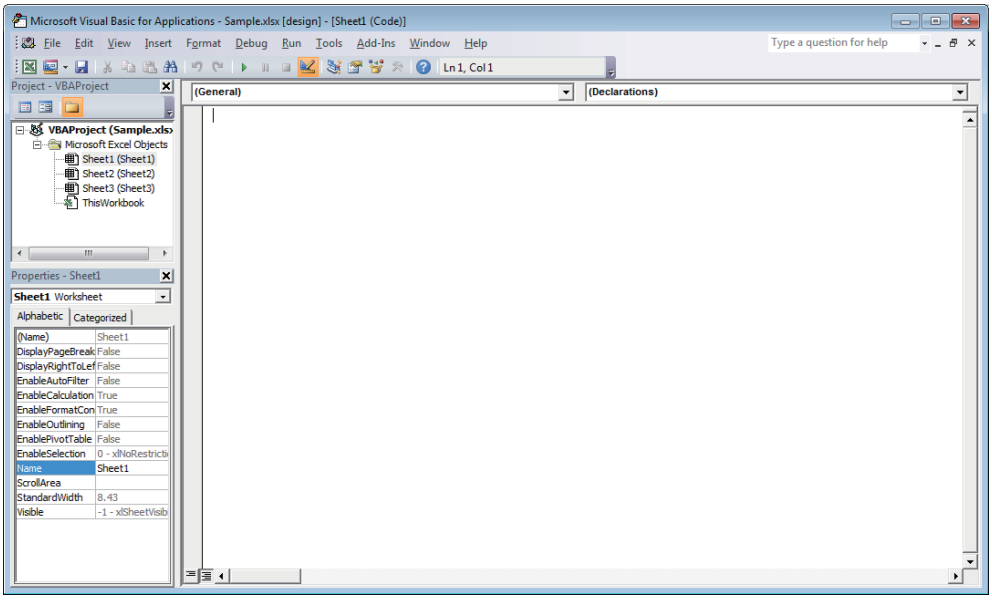
2. Select the ACT control to be used, and click the [OK] button.



3. Paste the selected ACT control to the sheet.



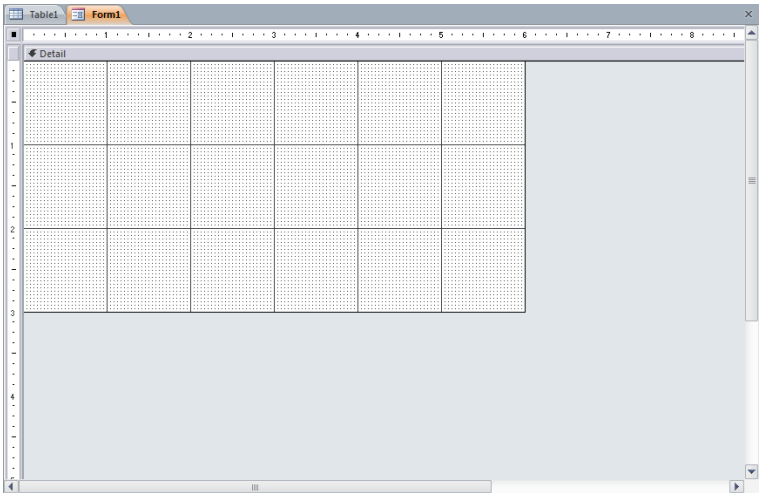
4. Select [Visual Basic] on the [Developer] tab to start Visual Basic Editor.



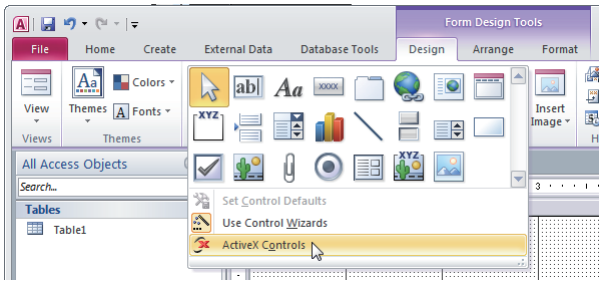
5. Create a program with Visual Basic Editor.

When using Microsoft Access 2010

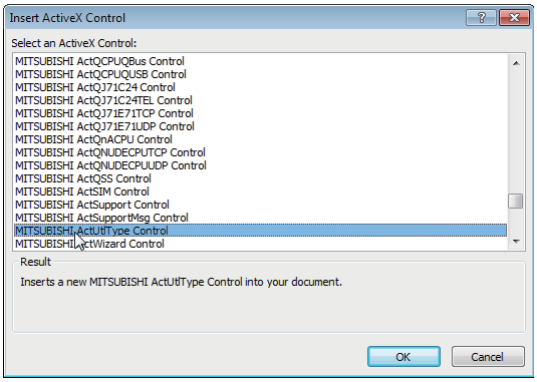
1. Start Access and activate the database form.



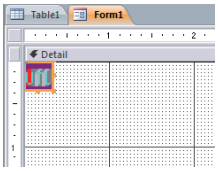
2. Select [Controls] ⇨ [ActiveX Controls] on the [Design] tab.



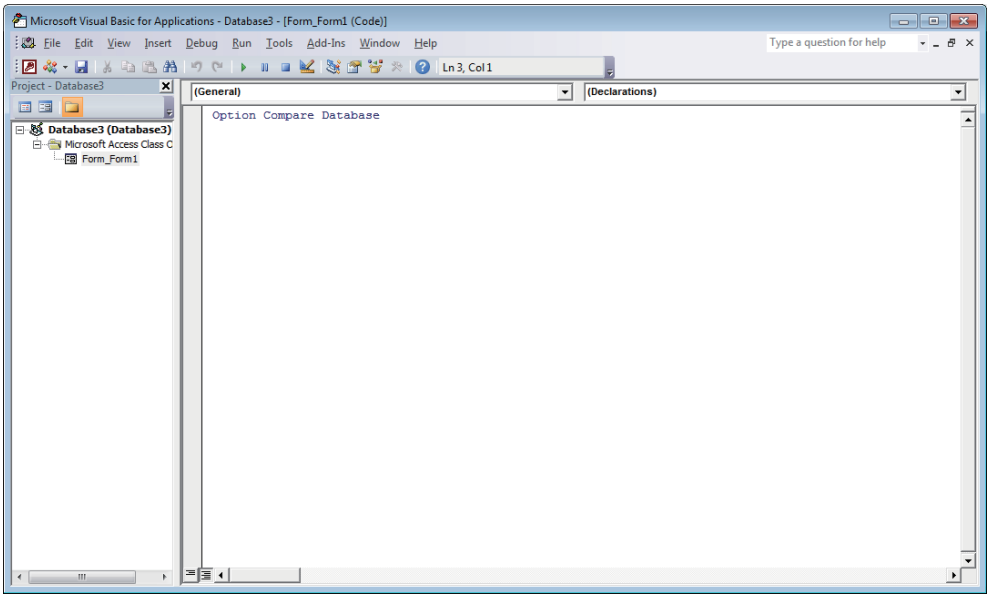
3. Select the ACT control to be used, and click the [OK] button.



4. Paste the selected ACT control to the sheet.



5. Select [View Code] on the [Design] tab to start Visual Basic Editor.



6. Create a program with Visual Basic Editor.

When using VBScript

Create HTML or ASP using a tool such as notepad, commercially available text editor, or HTML creation tool.
For the grammars of HTML and ASP, refer to the commercially available references.
The HTML and ASP sample programs installed with MX Component can also be referred.

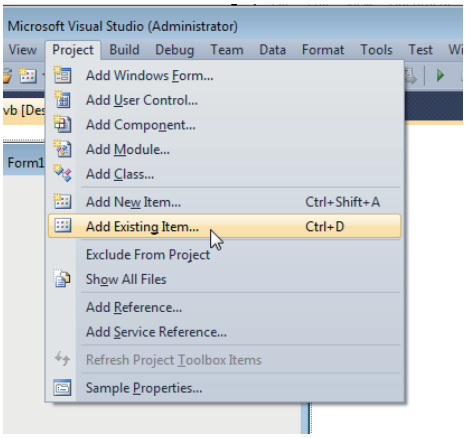
When using Visual Studio .NET

Perform the following setting operation when using Visual Studio .NET.

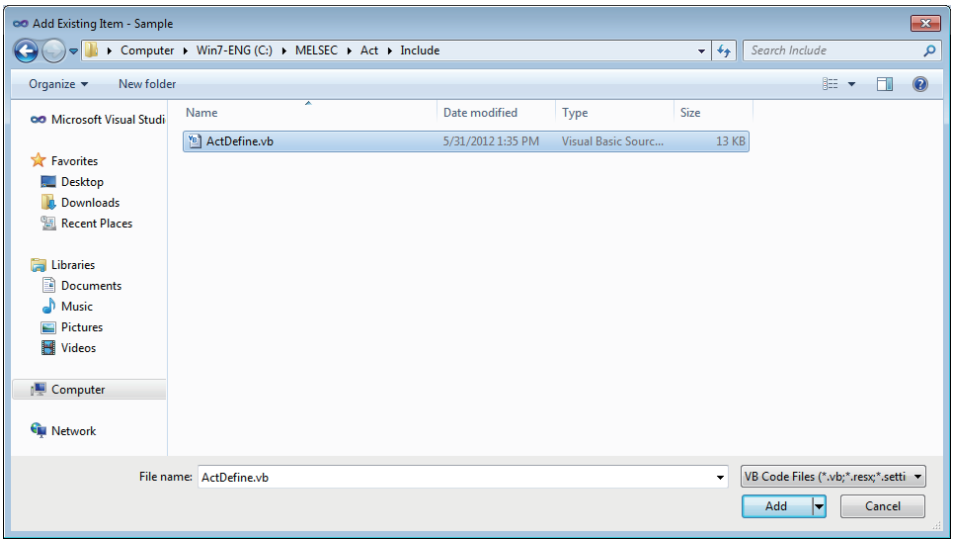
Setting the include file (for Visual Basic .NET)

Operating procedure

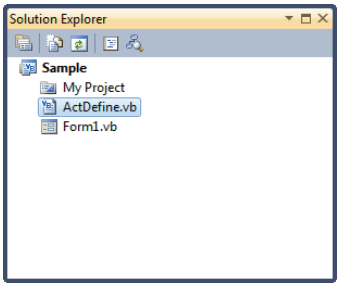
1. Start the project and select [Project] ⇨ [Add Existing Item].



2. Select the ActDefine.vb file and click the [Add] button.
The ActDefine.vb file is stored in the following folder at the time of installation.
[User-specified folder] - [Act] - [Include]



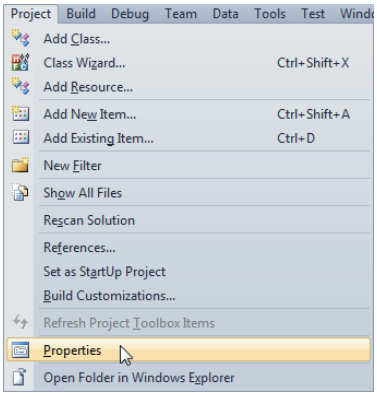
3. The ActDefine.vb file is displayed on the Solution Explorer window.



Setting the include file (for Visual C++ .NET)

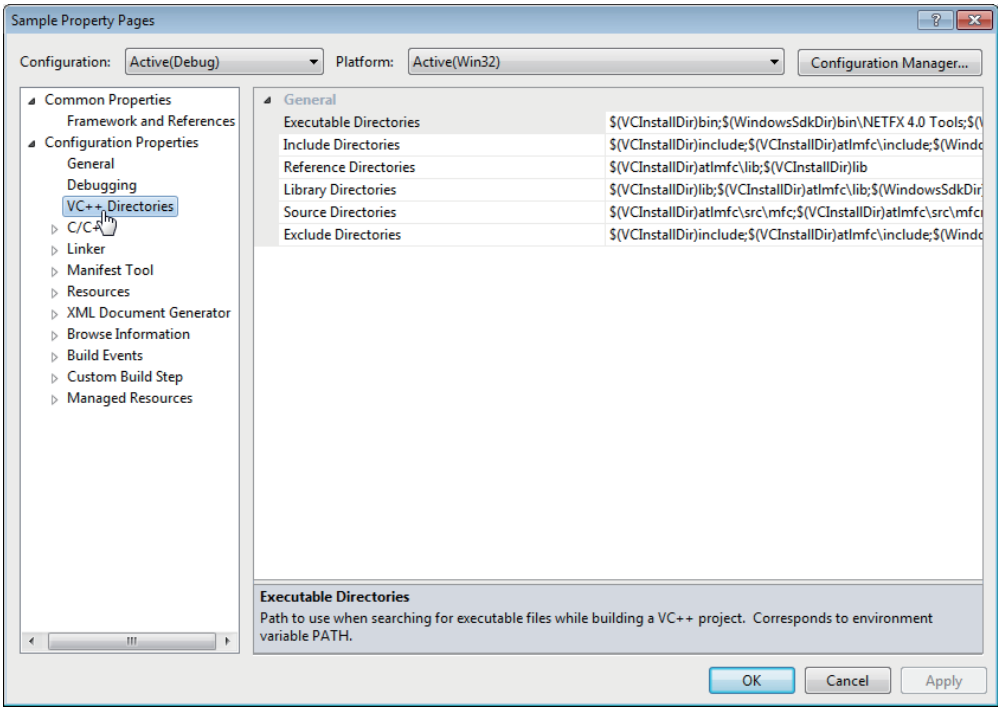
Operating procedure

1. Start Visual Studio .NET and select [Project] ⇨ [Properties].



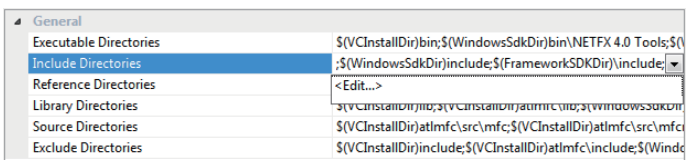
(For Visual Studio 2005 and Visual Studio 2008, select [Tools] ⇨ [Options].)

2. Select [Configuration Properties] ⇨ [VC++ Directories] on the navigation pane displayed on the left side of the screen.

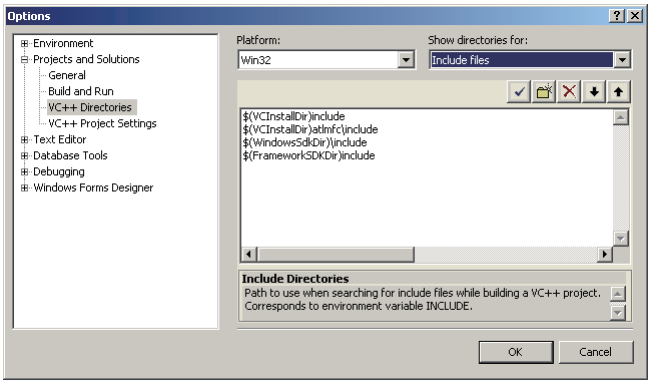


(For Visual Studio 2005 and Visual Studio 2008, select [Projects and Solutions] ⇨ [VC++ Directories].)

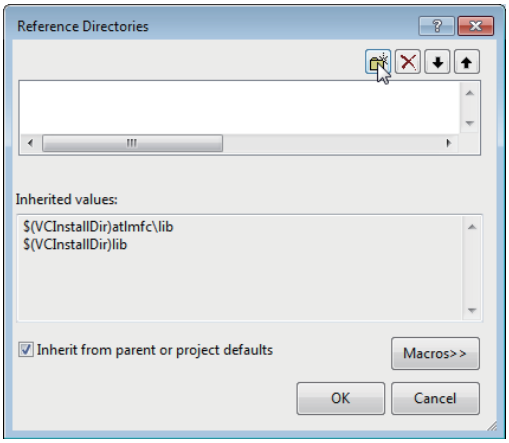
3. Right-click on "Include Directories" displayed on the right side of the screen and select <Edit...>.



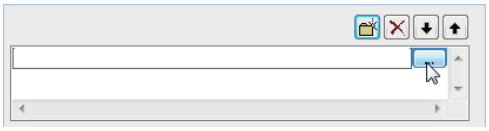
For Visual Studio 2005 and Visual Studio 2008, select "Include files" for "Show directories for:" on the top right of the screen.



4. Click (New line).



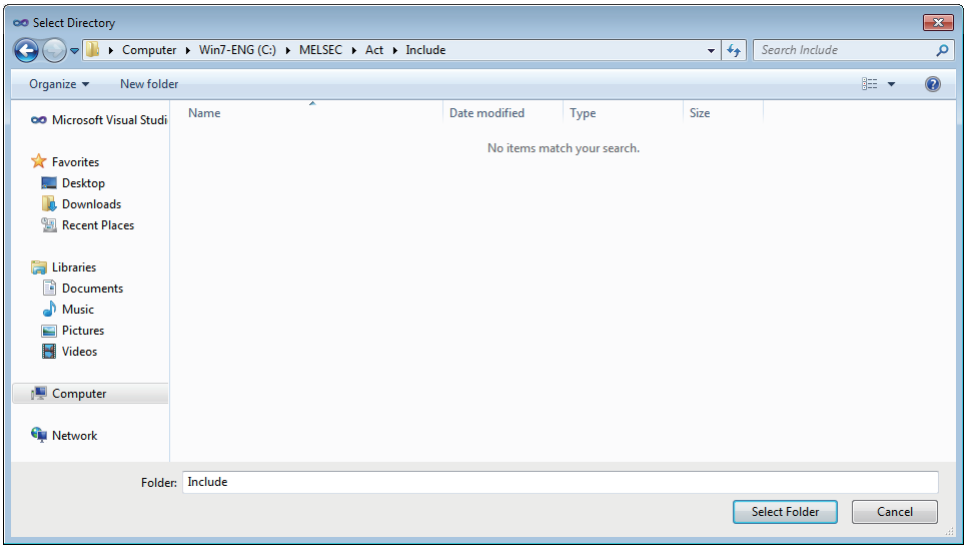
5. Click the [...] button.



6. Select the folder that contains the include files.

The include files are stored in the following folder at the time of installation.

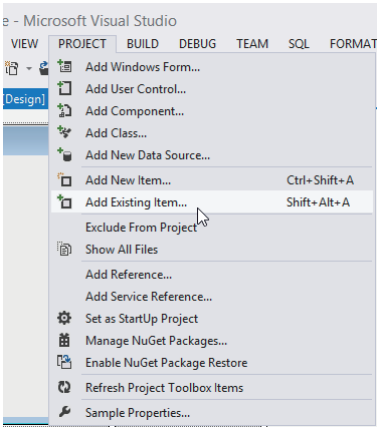
[User-specified folder] - [Act] - [Include]



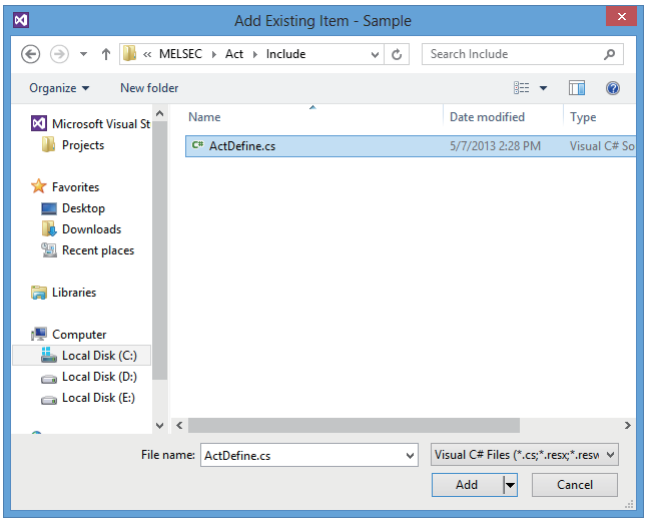
Setting the include file (for Visual C# .NET)

Operating procedure

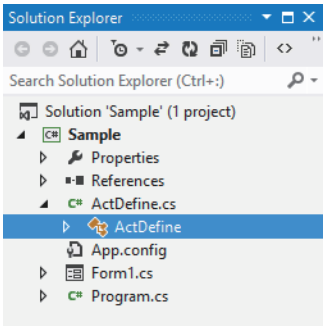
1. Start Visual Studio .NET and select [PROJECT] ⇨ [Add Existing Item].



2. Select the ActDefine.cs file and click the [Add] button.
The ActDefine.cs file is stored in the following folder at the time of installation.
[User-specified folder] - [Act] - [Include]



3. The ActDefine.cs file is displayed on the Solution Explorer window.

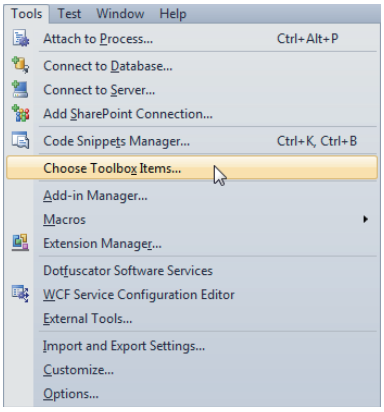


When pasting a control to the form

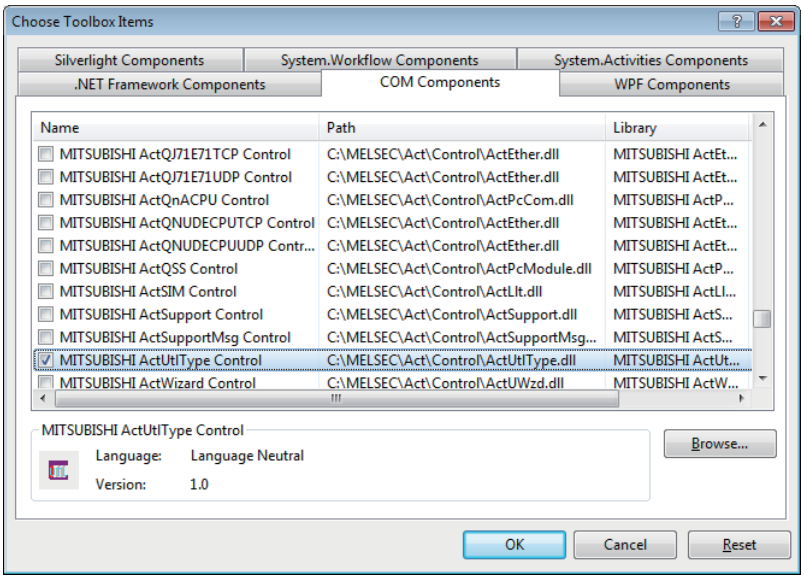
(Common setting for Visual C++ .NET, Visual Basic .NET, and Visual C# .NET projects)

Operating procedure

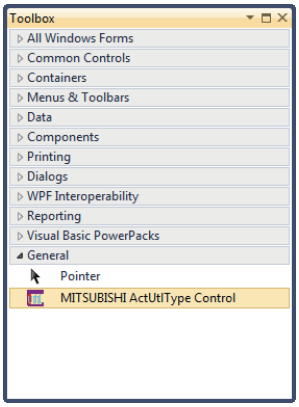
1. Select [Tools] ⇨ [Choose Toolbox Items].



2. Select the [.NET Framework Components] tab (for pasting .NET control) or the [COM Components] tab (for pasting ACT control), select the control to be used, and click the [OK] button.



3. The control is added to the bottom of the tab selected under "Toolbox".



Point

When creating an application using .NET Framework 4, .NET Framework 4.5, or .NET Framework 4.6 (The following is an example for .NET Framework 4.) Add an application configuration file with the following elements (app.config) to the folder which contains the .exe file of the application.
For details, refer to Visual Studio Help.

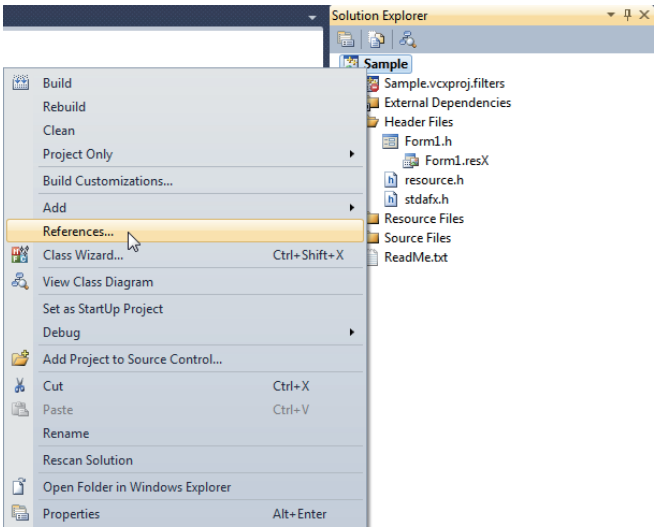
```
<configuration>
    <startup useLegacyV2RuntimeActivationPolicy="true">
        <supportedRuntime version="v4.0"/>
    </startup>
</configuration>
```

When using control without pasting it to a form (Reference setting)

(Common setting for Visual C++ .NET, Visual Basic .NET, and Visual C# .NET projects)

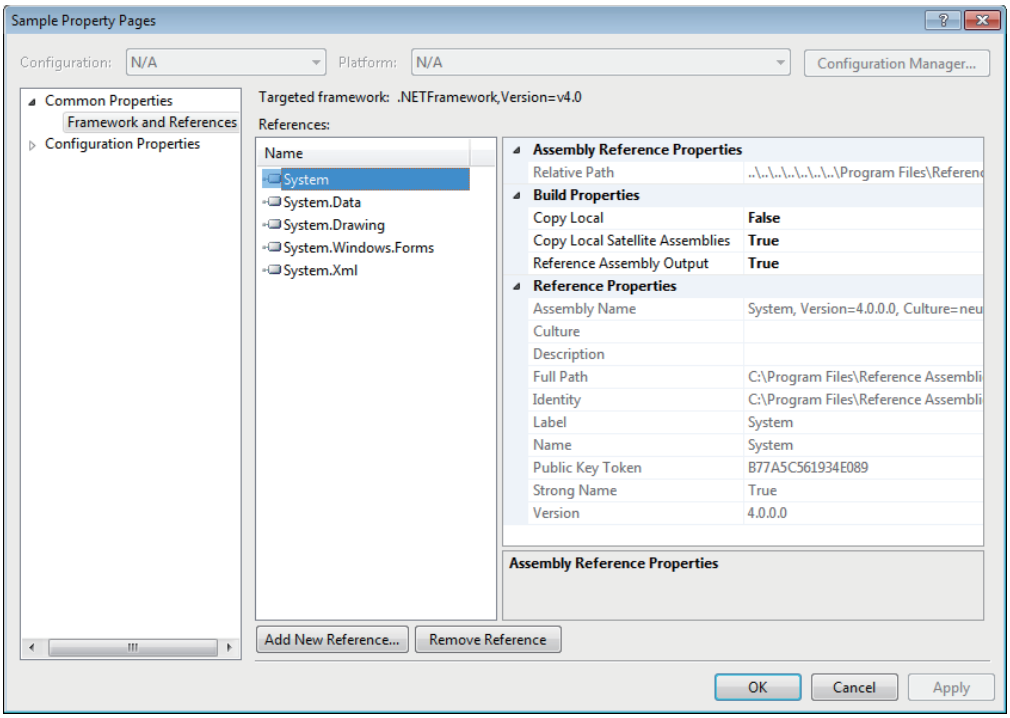
Operating procedure

1. Select [View] ⇨ [Solution Explorer] to display "Solution Explorer".
2. Right-click the project and select "References".

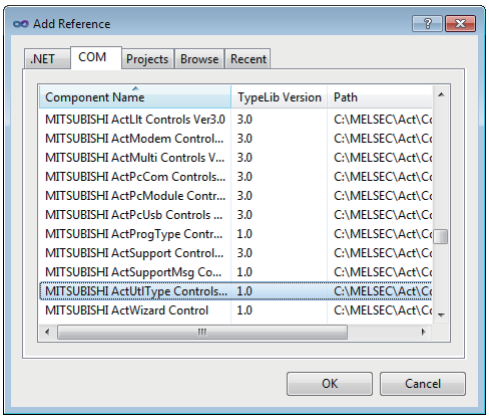


(For Visual Studio 2010, Visual Studio 2012, Visual Studio 2015, and Visual Studio 2017, select "Add Reference". (To Step 4))
(For Visual Studio 2013, select "Add" ⇨ "References". (To Step 4))

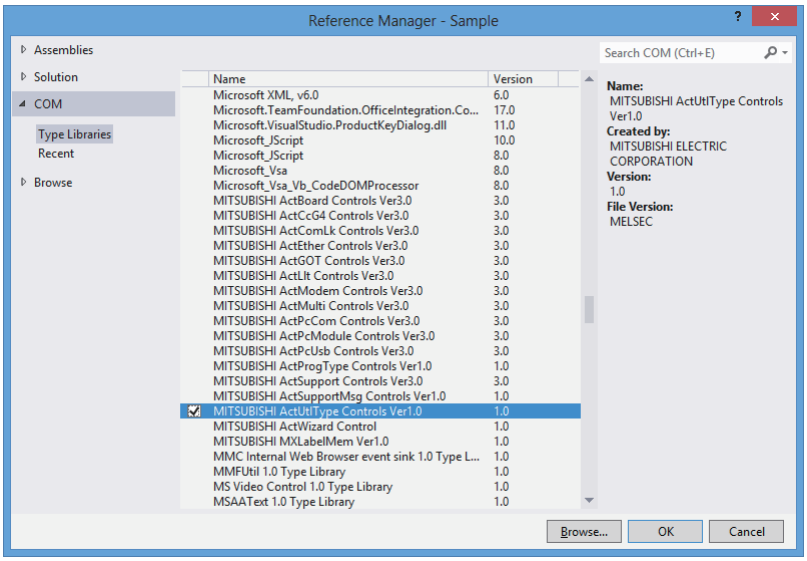
3. Select the [Add New Reference] button on "Property Pages".



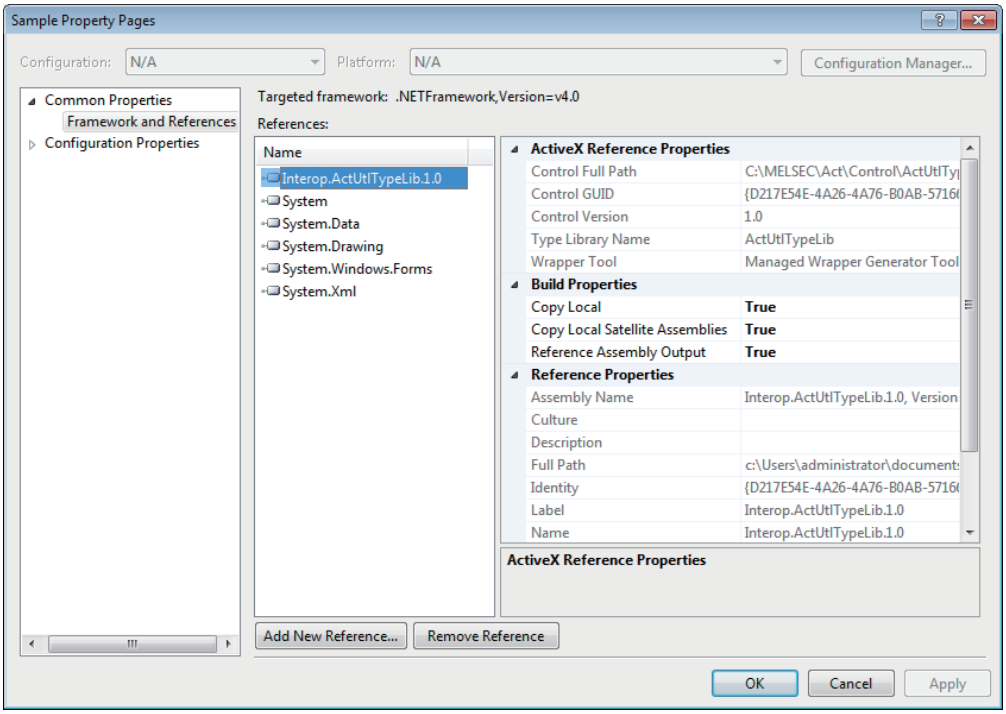
4. Select the [COM] tab (for pasting ACT control) or the [.NET] tab (for pasting .NET control), select the control to be used, and click the [OK] button.



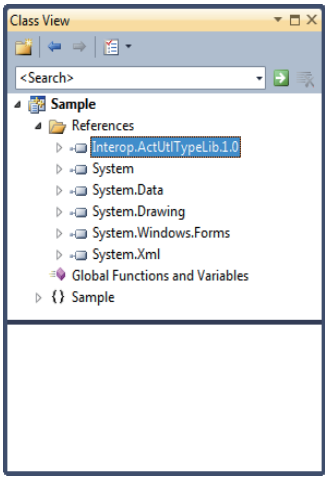
(For Visual Studio 2012, Visual Studio 2013, Visual Studio 2015, and Visual Studio 2017, select "COM" ⇨ "Type Libraries" (for pasting ACT control) or "Assemblies" ⇨ "Extensions" (for pasting .NET control), select the control to be used, and click the [OK] button.)



5. The library of the component to be used is set to "References" as a reference.

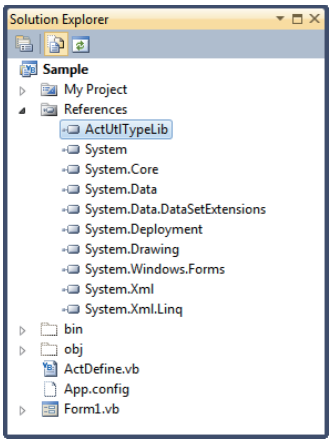


The library of the component to be used can be checked with "References" on "Class View".

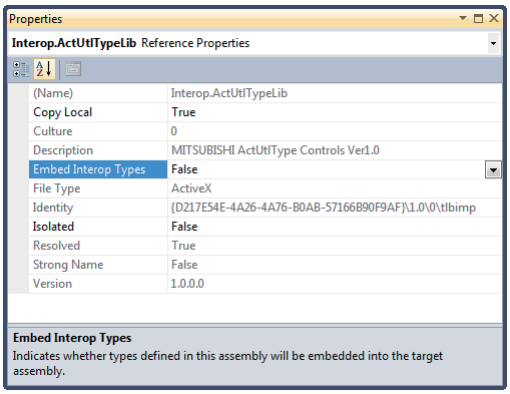


(For Visual Studio 2008 and Visual Studio 2010, enable "Show Project References" in "Class View Settings".)

6. For Visual Basic .NET of Visual Studio 2010/2012/2013/2015/2017, click the button on "Solution Explorer" to display all files.
Right-click the library of the component to be used under "References" and select "Properties".



Set "False" for "Embed Interop Types".



Point

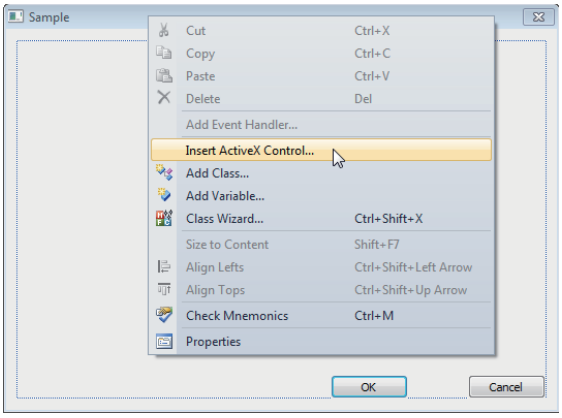
- When using Visual C++ .NET/Visual Basic .NET/Visual C# .NET projects
  The following library is added to "References".
  For ActProgType: ActProgTypeLib
  For ActUtlType: ActUtlTypeLib
  For ActSupportMsg: ActSupportMsgLib
  For DotUtlType: MITSUBISHI.Component.DotUtlType
  For DotSupportMsg: MITSUBISHI.Component.DotSupportMsg
  Set "False" for "Embed Interop Types" in the property of each library.
- When creating a program
  Select "x86" (32 bits) for "Target CPU".
- When creating an application using .NET Framework 4, .NET Framework 4.5, or .NET Framework 4.6, add an application configuration file with the following elements (app.config) to the folder which contains the .exe file of the application. (The following is an example for .NET Framework 4.)
  For details, refer to Visual Studio Help.

```
<configuration>
    <startup useLegacyV2RuntimeActivationPolicy="true">
        <supportedRuntime version="v4.0"/>
    </startup>
</configuration>
```

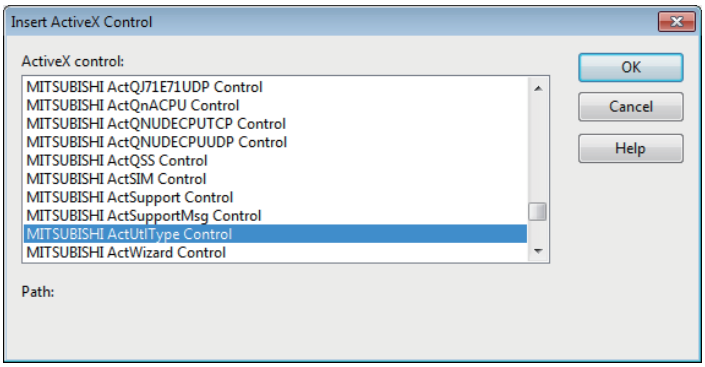
When using ACT control on Visual C++ .NET(MFC)

Operating procedure

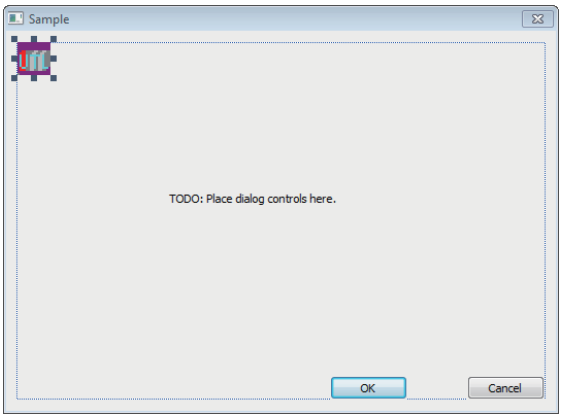
1. Right-click the form and select "Insert ActiveX Control".



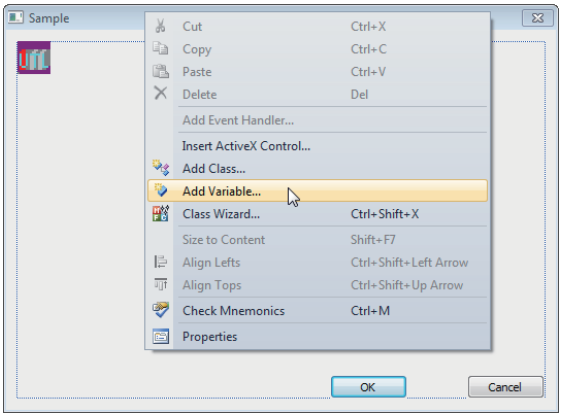
2. Select the ACT control to be used and click the [OK] button.



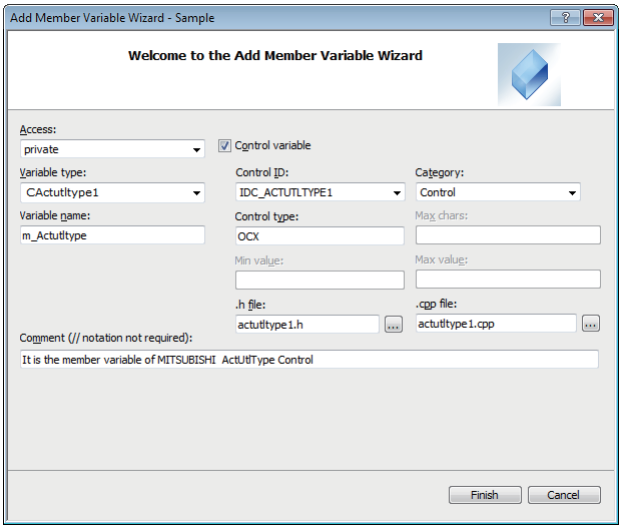
3. The selected ACT control is pasted to the form.



4. Right-click the form and select "Add Variable".

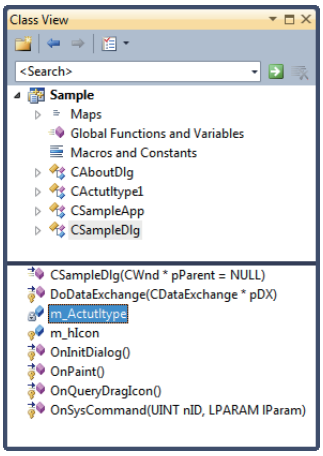


5. After selecting "Control variable", select the ID of the ACT control for "Control ID", enter the variable name, and click the [Finish] button.

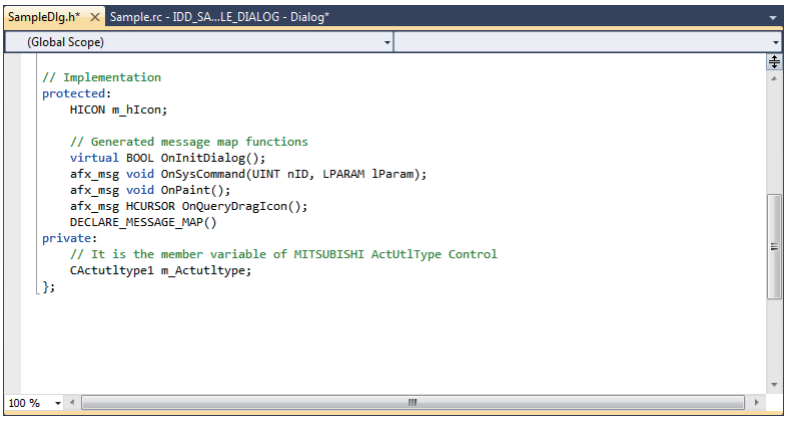


6. Check that the member variable set in Step 5 is created.

- In the form class of Class View



- In the header file of form class



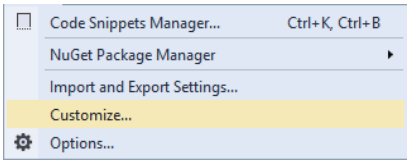
When using a different version of Visual Studio

■When using a project which is created in the version of Visual Studio 2013 or earlier in Visual Studio 2015

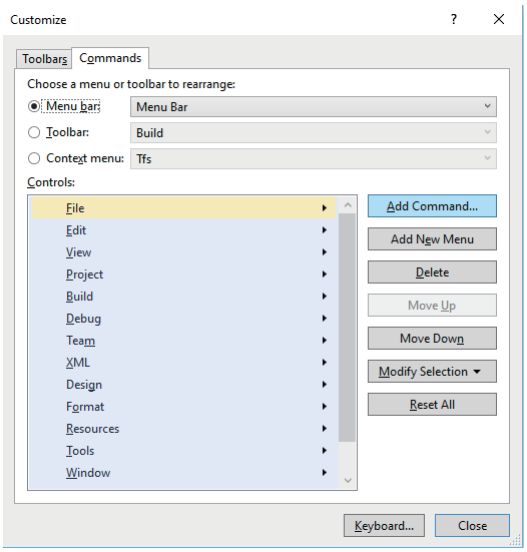
When opening and compiling the project which is created in Visual Studio 2013 or earlier in Visual Studio 2015, save the project in UNICODE format.

Operating procedure

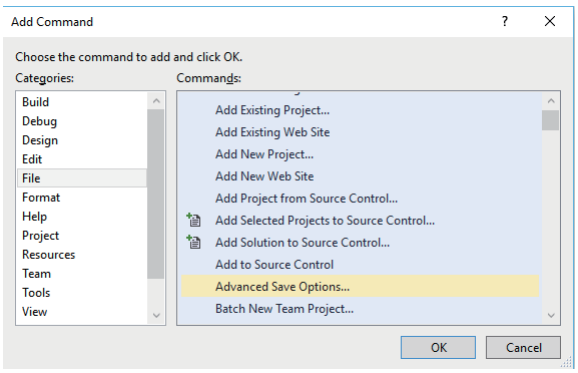
1. Select [Tools] ⇨ [Customize].



2. Select the [Commands] tab, and click the [Add Command] button.



3. Select "File" ⇨ "Advanced Save Options", and click the [OK] button.



■When using a project which is created in Visual Studio 2015 or earlier in Visual Studio 2017

When opening a Visual C++ .NET(MFC) project which is created in Visual Studio 2015 or earlier in Visual Studio 2017, the Windows SDK version must be changed to '10.0.15063.0'.

Operating procedure

1. Select [Project] ⇨ [Property] to open "Property Pages".
2. Check the version in "Windows SDK Version" by selecting [Configuration Properties] ⇨ [General], and change the version to '10.0.15063.0'.

2.2 Programming Procedure

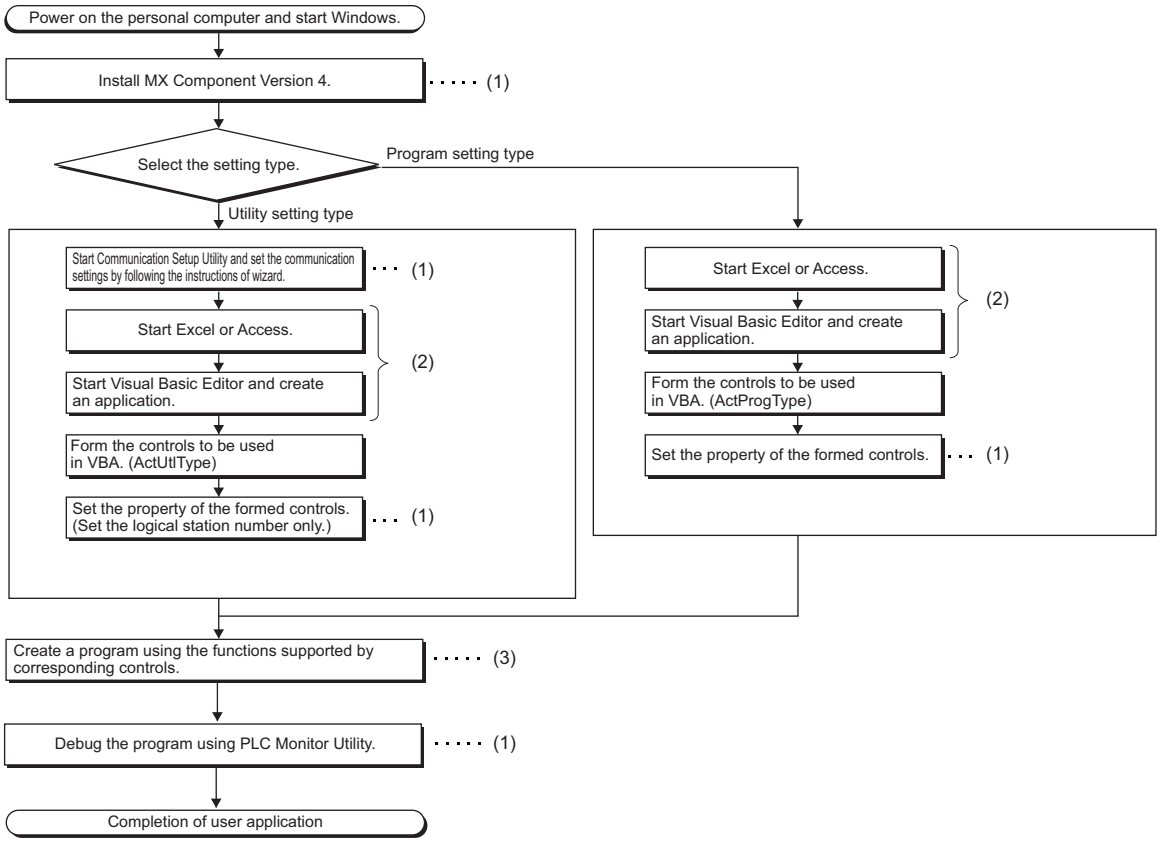
This section explains the procedure to create a user application.

Point

When creating a user program, select "x86" (32 bits) for "Target CPU".

When using VBA

Create a user application with the following procedure when using VBA.



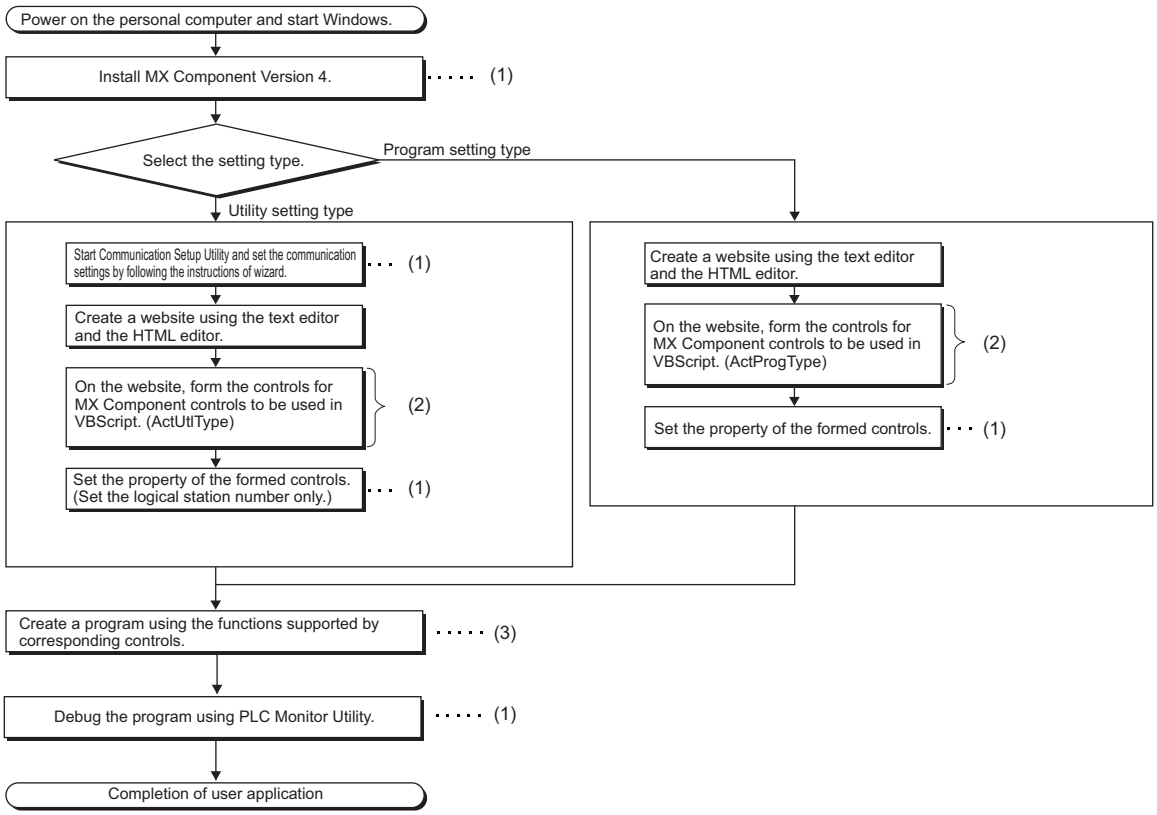
(1) MX Component Version 4 Operating Manual

(2) ☞ Page 28 When using VBA

(3) ☞ Page 62 PROPERTIES OF CONTROLS, ☞ Page 75 PROPERTY SETTINGS OF COMMUNICATION PATHS, ☞ Page 358 FUNCTIONS

When using VBScript

Create a user application with the following procedure when using VBScript.



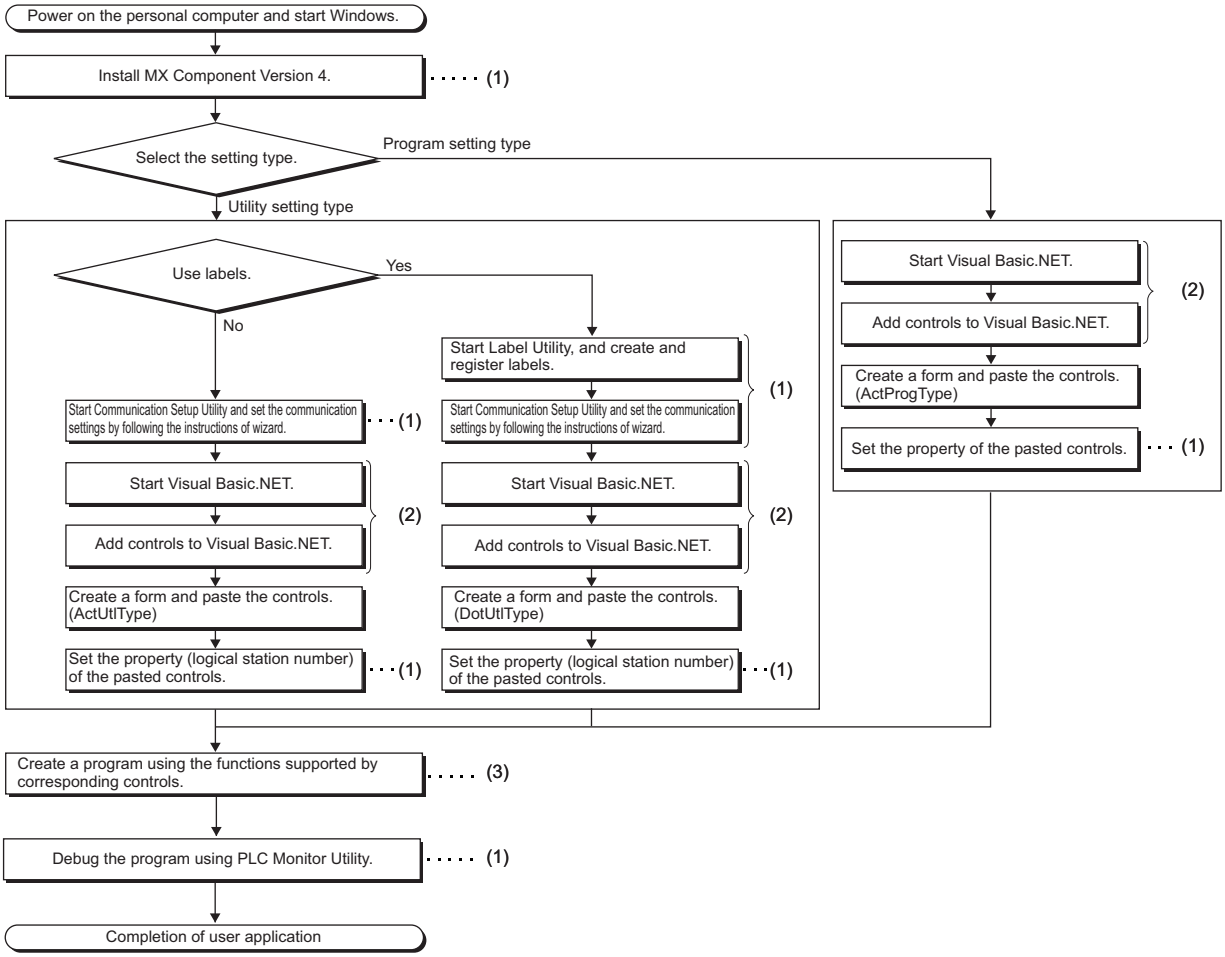
(1) 📖MX Component Version 4 Operating Manual

(2) ☞ Page 32 When using VBScript

(3) ☞ Page 62 PROPERTIES OF CONTROLS, ☞ Page 75 PROPERTY SETTINGS OF COMMUNICATION PATHS, ☞ Page 358 FUNCTIONS

When using Visual Basic .NET

Create a user application with the following procedure when using Visual Basic .NET.



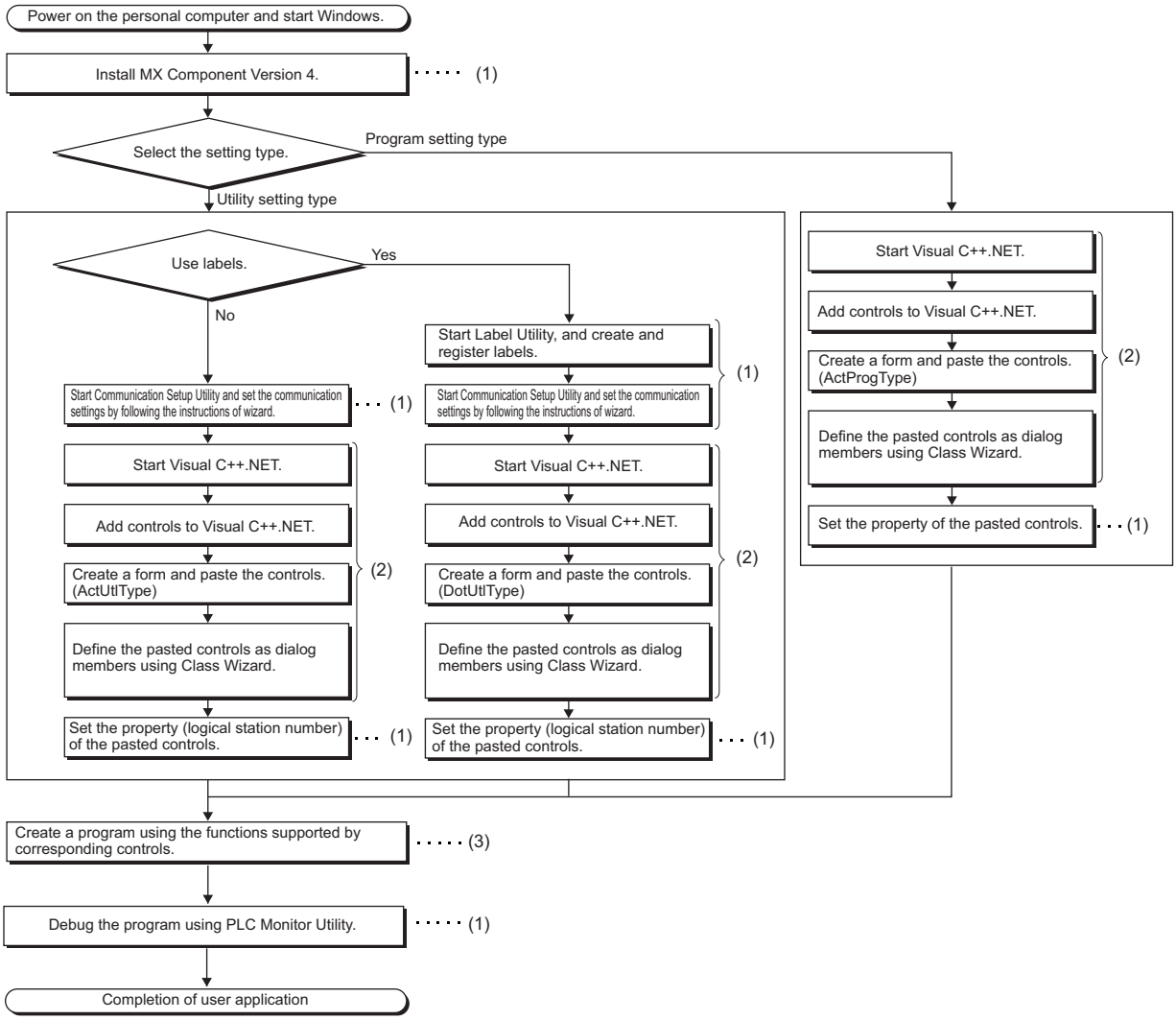
(1) MX Component Version 4 Operating Manual

(2) ☞ Page 33 Setting the include file (for Visual Basic .NET)

(3) ☞ Page 62 PROPERTIES OF CONTROLS, ☞ Page 75 PROPERTY SETTINGS OF COMMUNICATION PATHS, ☞ Page 358 FUNCTIONS

When using Visual C++ .NET

Create a user application with the following procedure when using Visual C++ .NET.



(1) MX Component Version 4 Operating Manual

(2) ☞ Page 34 Setting the include file (for Visual C++ .NET)

(3) ☞ Page 62 PROPERTIES OF CONTROLS, ☞ Page 75 PROPERTY SETTINGS OF COMMUNICATION PATHS, ☞ Page 358 FUNCTIONS

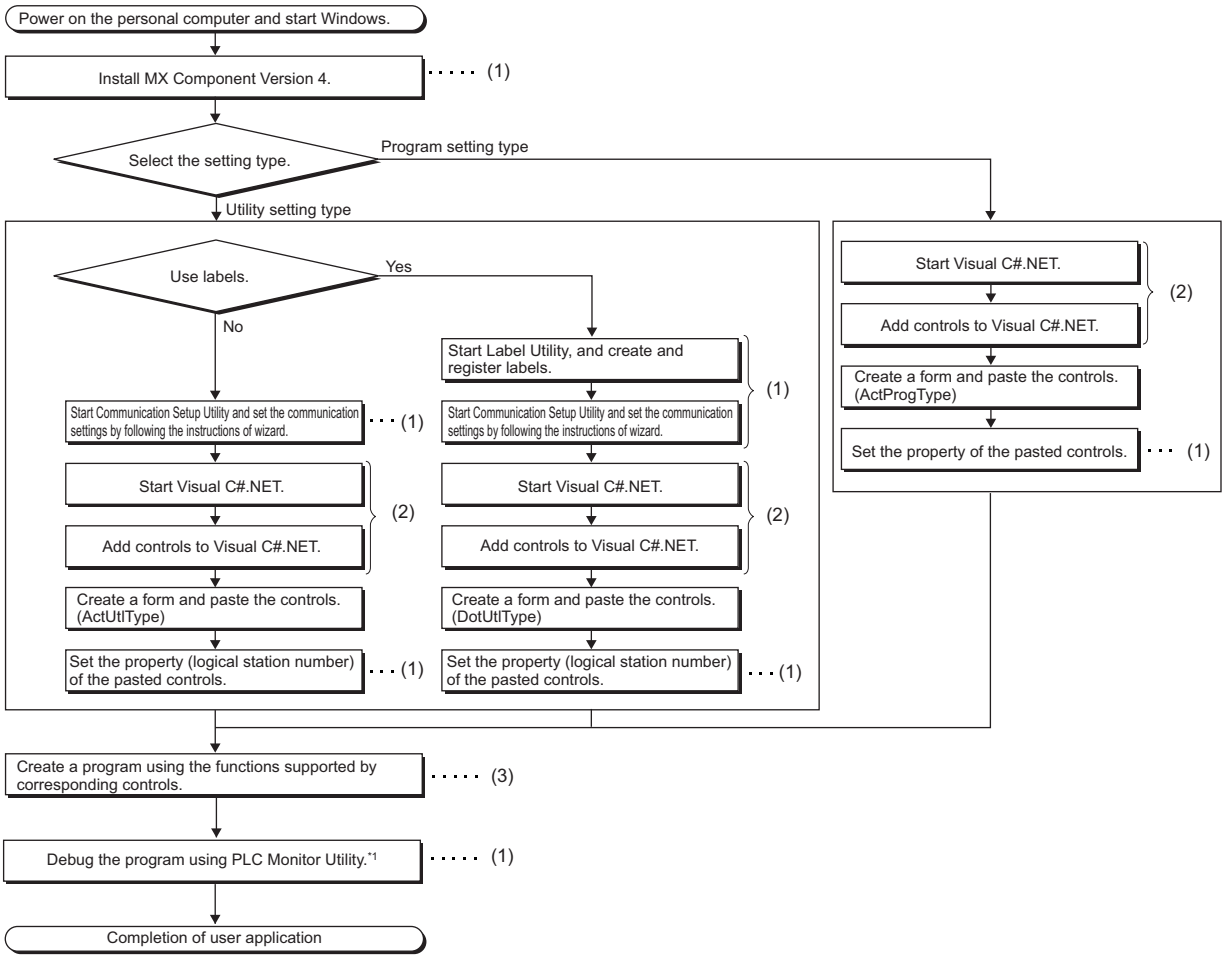
Point

When using both .NET control (DotUtlType) and Act control (ActUtlType) by pasting them into a program, perform the following operations by selecting [Project] ⇨ [Properties] from Solution Explorer.

- Visual Studio 2005/2008
  1) Select [Common Properties] ⇨ [References].
  2) Select "ActUtlTypeLib" from "Name" in "References", and change the setting of "Use" under "Build Properties" to "False".
  3) Select "ActInterop.ActUtlTypeLib.1.0" from "Name" in "References", and change the setting of "Use" under "Build Properties" to "False".
  4) Click the [OK] button to reflect the change of the setting.
- Visual Studio 2010/2012/2013/2015/2017
  1) Select [Common Properties] ⇨ [Framework and references].
  2) Select "ActUtlTypeLib" from "Name" in "References", and change the setting of "Reference Assembly Output" under "Build Properties" to "False".
  3) Select "Interop.ActUtlTypeLib.1.0" from "Name" in "References", and change the setting of "Reference Assembly Output" under "Build Properties" to "False".
  4) Click the [OK] button to reflect the change of the setting.

When using Visual C# .NET

Create a user application with the following procedure when using Visual C# .NET.



(1) MX Component Version 4 Operating Manual

(2) ☞ Page 36 Setting the include file (for Visual C# .NET)

(3) ☞ Page 62 PROPERTIES OF CONTROLS, ☞ Page 75 PROPERTY SETTINGS OF COMMUNICATION PATHS, ☞ Page 358 FUNCTIONS

Point

On Visual Studio 2010/2012/2013/2015/2017, when using both .NET control (DotUtlType) and Act control (ActUtlType) by pasting them into a program, perform the following operations by selecting "References" from Solution Explorer.

1) Select ActUtlTypeLib and delete it.

2) Select Interop.ActUtlTypeLib and delete it.

2.3 Device Types

This section explains the devices that can be specified for functions.

Point

- Specify devices with "device name + device number" for any of the following functions.
  For the device numbers, note the differences between octal, decimal, and hexadecimal numbers.
  Target functions: ReadDeviceBlock, ReadDeviceBlock2, WriteDeviceBlock, WriteDeviceBlock2, ReadDeviceRandom, ReadDeviceRandom2, WriteDeviceRandom, WriteDeviceRandom2, SetDevice, SetDevice2, GetDevice, GetDevice2
- When specifying bit devices for ReadDeviceBlock, ReadDeviceBlock2, WriteDeviceBlock, or WriteDeviceBlock2, specify the device number with a multiple of 16.
- Local devices and file registers per program of programmable controller CPU cannot be accessed by specifying a program name.
- Only the devices indicated in this section are supported. Do not use unsupported devices.

Common device types

The following device types are common to all communication paths except for the communication to FX5CPU, gateway function communication, inverter communication, and robot controller communication.

Device		Device name	Device type	Device number
Function input		FX	Bit device	Decimal
Function output		FY	Bit device	Decimal
Function register		FD	Word device*1	Decimal
Special relay		SM	Bit device	Decimal
Special register		SD	Word device	Decimal
Input relay		X	Bit device	Hexadecimal*2
Output relay		Y	Bit device	Hexadecimal*2
Internal relay		M	Bit device	Decimal
Latch relay		L	Bit device	Decimal
Annunciator		F	Bit device	Decimal
Edge relay		V	Bit device	Decimal
Link relay		B	Bit device	Hexadecimal
Data register		D	Word device	Decimal
Link register		W	Word device	Hexadecimal
Timer*12	Contact	TS	Bit device	Decimal
	Coil	TC	Bit device	Decimal
	Present value	TN	Word device	Decimal
Counter*12	Contact	CS	Bit device	Decimal
	Coil	CC	Bit device	Decimal
	Present value*3	CN	Word device	Decimal
Retentive timer*12	Contact	STS/SS	Bit device	Decimal
	Coil	STC/SC	Bit device	Decimal
	Present value	STN/SN	Word device	Decimal
Link special relay		SB	Bit device	Hexadecimal
Link special register		SW	Word device	Hexadecimal
Step relay		S	Bit device	Decimal
Accumulator		A*4	Word device	Decimal
Index register		Z*4	Word device	Decimal
		V*4	Word device	Decimal
File register		R*5	Word device	Decimal
		ZR	Word device	Decimal
Extended file register		ER*\R*6	Word device	Decimal

Device		Device name	Device type	Device number
Direct link[*8*13]	Link input	J*\X[*7]	Bit device	Hexadecimal
	Link output	J*\Y[*7]	Bit device	Hexadecimal
	Link relay	J*\B[*7]	Bit device	Hexadecimal
	Link special relay	J*\SB[*7]	Bit device	Hexadecimal
	Link register	J*\W[*7]	Word device	Hexadecimal
	Link special register	J*\SW[*7]	Word device	Hexadecimal
Special direct buffer memory[*9*10]		U*\G**[*7*11]	Word device	Hexadecimal/Decimal

*1 4 words/1 point. For a bulk operation, the operation is performed continuously in units of one word. For a random operation, only the first one word is read.

*2 For FXCPU, the device number is octal.

*3 For FXCPU, the value higher than or equal to 200 is 32-bit data.

*4 These devices cannot be used when E71 is relayed.

*5 When accessing FX series CPU other than FX3G(C)CPU and FX3U(C)CPU, specify the data register (D). The extended file register (R) can be specified only when accessing FX3G(C)CPU or FX3U(C)CPU.

*6 For specifying an extended file register, enter "\" between the block number and the file register.
When specifying R**, R of the block No. 0 becomes a target.
When specifying ER0\R**, an error is returned.
When specifying ER**\R**, the extension representation (indirect specification, digit specification) is not applicable.

*7 For a direct specification, enter "\" between the direct specification and the device specification.

8 J specifies a network number.

9 U specifies a special module I/O number (hexadecimal), and G** specifies a buffer memory address (decimal).
(Example: When the special module I/O number is 200H and the buffer memory address is 100, the device name will be "U20\G100".)

*10 In a QCPU multiple CPU configuration, an error occurs if the shared memory of the host QCPU is specified.
Regardless of whether the CPU is a host CPU or other CPU, an error occurs if data is written to the shared memory.

*11 For FXCPU, this device name can be used on FX3U(C)CPU only.

*12 When accessing the device using a label of system label Ver.2, the label of system label Ver.2 which is corresponding to a device for contact/coil/present value is required to be defined.

*13 The device is not available in LHCPU.

When access target is RCPU or LHCPU

The devices described in the following table can be used when access target is RCPU or LHCPU.

Device		Device name	Device type	Device number
Long timer*1	Contact	LTS	Bit device	Decimal
	Coil	LTC	Bit device	Decimal
	Present value	LTN	Double word device	Decimal
Long counter*1	Contact	LCS	Bit device	Decimal
	Coil	LCC	Bit device	Decimal
	Present value	LCN	Double word device	Decimal
Retentive long timer*1	Contact	LSTS/LSS	Bit device	Decimal
	Coil	LSTC/LSC	Bit device	Decimal
	Present value	LSTN/LSN	Double word device	Decimal
Long index register		LZ	Double word device	Decimal
Refresh device for modules		RD	Word device	Decimal

*1 When accessing the device using a label of system label Ver.2, the label of system label Ver.2 which is corresponding to a device for contact/coil/present value is required to be defined.

When access target is RnSFCPU (Safety devices)

The safety devices described in the following table can be used when access target is RnSFCPU.

The safety mode is read-only. An attempt to write into the safety device will cause an error.

Device	Device name	Device type	Device number
Safety input	SA\X	Bit device	Hexadecimal
Safety output	SA\Y	Bit device	Hexadecimal
Safety internal relay	SA\M	Bit device	Decimal
Safety link relay	SA\B	Bit device	Hexadecimal
Safety timer	SA\T	Bit device/Word device	Decimal
Safety retentive timer	SA\ST	Bit device/Word device	Decimal
Safety counter	SA\C	Bit device/Word device	Decimal
Safety data register	SA\D	Word device	Decimal
Safety link register	SA\W	Word device	Hexadecimal
Safety special relay	SA\SM	Bit device	Decimal
Safety special register	SA\SD	Word device	Decimal

When access target is R motion CPU or Q motion CPU

The devices described in the following table can be used only when the access target is an R motion CPU or a Q motion CPU.

Device	Device name	Device type	Device number
Motion registers	#	Word device	Decimal

When access target is FX5CPU

The devices described in the following table can be used when access target is FX5CPU.

Device		Device name	Device type	Device number
Special relay		SM	Bit device	Decimal
Special register		SD	Word device	Decimal
Input relay		X	Bit device	Octal
Output relay		Y	Bit device	Octal
Internal relay		M	Bit device	Decimal
Latch relay		L	Bit device	Decimal
Annunciator		F	Bit device	Decimal
Edge relay		V	Bit device	Decimal
Link relay		B	Bit device	Hexadecimal
Data register		D	Word device	Decimal
Link register		W	Word device	Hexadecimal
Timer	Contact	TS	Bit device	Decimal
	Coil	TC	Bit device	Decimal
	Present value	TN	Word device	Decimal
Counter	Contact	CS	Bit device	Decimal
	Coil	CC	Bit device	Decimal
	Present value	CN	Word device	Decimal
Retentive timer	Contact	STS/SS	Bit device	Decimal
	Coil	STC/SC	Bit device	Decimal
	Present value	STN/SN	Word device	Decimal
Long counter	Contact	LCS	Bit device	Decimal
	Coil	LCC	Bit device	Decimal
	Present value	LCN	Bit device	Decimal
Link special relay		SB	Bit device	Hexadecimal
Link special register		SW	Word device	Hexadecimal
Step relay		S	Bit device	Decimal
Index register		Z	Word device	Decimal
File register		R	Word device	Decimal
Long index register		LZ	Double word device	Decimal
Module access device		U*\G	Word device	Decimal

For CC-Link communication

The devices described in the following table can be used when accessing to the own board with CC-Link communication.
These devices cannot be used for other communication paths.

Device	Device name	Device type	Device number	Remarks
Link special relay (for CC-Link)	SB	Bit device	Hexadecimal	Link special relay of own board
Link special register (for CC-Link)	SW	Word device	Hexadecimal	Link special register of own board
Remote input	X	Bit device	Hexadecimal	RX
Remote output	Y	Bit device	Hexadecimal	RY
Remote register (Data write area for CC-Link)	WW	Word device	Hexadecimal	RWw
Remote register (Data read area for CC-Link)	WR	Word device	Hexadecimal	RWr
Buffer memory	ML	Word device	Hexadecimal	Buffer memory of own station CC-Link module
Random access buffer	MC	Word device	Hexadecimal	Random access buffer in buffer memory of own station CC-Link module

For MELSECNET/H communication

The devices described in the following table can be used when accessing to the own board with MELSECNET/H communication.
These devices cannot be used for other communication paths.

Device	Device name	Device type	Device number	Remarks
Link relay	B	Bit device	Hexadecimal	Link relay of own board
Link register	W	Word device	Hexadecimal	Link register of own board
Link special relay	SB	Bit device	Hexadecimal	Link special relay of own board
Link special register	SW	Word device	Hexadecimal	Link special register of own board
Link input	X	Bit device	Hexadecimal	LX
Link output	Y	Bit device	Hexadecimal	LY

For CC-Link IE Controller Network communication

The devices described in the following table can be used when accessing to the own board with CC-Link IE Controller Network communication.
These devices cannot be used for other communication paths.

Device	Device name	Device type	Device number	Remarks
Link relay	B	Bit device	Hexadecimal	Link relay of own board
Link register	W	Word device	Hexadecimal	Link register of own board
Link special relay	SB	Bit device	Hexadecimal	Link special relay of own board
Link special register	SW	Word device	Hexadecimal	Link special register of own board
Link input	X	Bit device	Hexadecimal	LX
Link output	Y	Bit device	Hexadecimal	LY
Buffer memory	ML	Word device	Hexadecimal	Buffer memory of own board

For CC-Link IE Field Network communication

The devices described in the following table can be used when accessing to the own board with CC-Link IE Field Network communication.

These devices cannot be used for other communication paths.

Device	Device name	Device type	Device number	Remarks
Remote register	W	Word device	Hexadecimal	W0000 to W1FFF = RWw0 to RWw1FFF Remote register of own board (for sending) W2000 to W3FFF = RWr0 to RWr1FFF Remote register of own board (for receiving)
Link special relay	SB	Bit device	Hexadecimal	Link special relay of own board
Link special register	SW	Word device	Hexadecimal	Link special register of own board
Remote input	X	Bit device	Hexadecimal	RX
Remote output	Y	Bit device	Hexadecimal	RY
Buffer memory	ML	Word device	Hexadecimal	Buffer memory of own board

For gateway function communication

This section explains how to specify the device name used for gateway function communication.

For specifying devices used for other communication, refer to the following manual.

MX Component Version 4 Operating Manual

Device	Device name	Device type	Device number
Gateway device*1	EG	Word device	Decimal

*1 If a gateway device to which a programmable controller CPU device is not assigned is read, the read data becomes 0.

For inverter communication/robot controller communication

For monitor types used for inverter communication/robot controller communication, refer to the following manual.

MX Component Version 4 Operating Manual

Device extension representations

The following table shows applicability of device extension representation.

These representations cannot be used for ReadDeviceBlock and WriteDeviceBlock.

○: Applicable ×: Not applicable

Device extension representation	Target CPU				
	RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Digit specification (Example: K4M0)	○*1	○*6	×	○*1	○
Bit specification (Example: D0.1)	○*2	○	○	○*2	○
Index setting (Example: M100Z0)	○*3	×	×	○*3	○

Device extension representation	Target CPU						GOT	Inverter	Robot controller
	QCPU (Q mode)	QCCPU	LCPU	QSCPU	FXCPU	Q motion CPU			
Digit specification (Example: K4M0)*4	○	○*6	○	○	○	×	×	×	×
Bit specification (Example: D0.1)	○*7	○	○*7	○*7	○*7	×	○	×	×
Index setting (Example: M100Z0)*5	○	×	○	×	×	×	×	×	×

*1 FX/FY, FD/SD, V, T/C/ST, LT/LC/LST, W/SW, G, Z, R/ZR and LZ cannot be specified.

*2 Z, T/C/ST, LT/LC/LST and LZ cannot be specified.

*3 FX/F, Z and LZ cannot be specified.

*4 FX/FY, DX/DY, and T/C/ST (contact, coil) cannot be specified.

*5 FX/FY, DX/DY, T/C/ST (contact, coil), Z, and S cannot be specified.

*6 The bit devices whose device numbers are multiple of 16 can only be used for digit specification.
(For link direct devices, the digit specification only for K4 and K8 is supported.)

*7 Z, V, and T/C/ST (present value) cannot be specified.

2.4 Accessible Ranges

For the ranges that can be accessed in each communication, refer to the following manual.

MX Component Version 4 Operating Manual

3 PROPERTIES OF CONTROLS

This chapter explains the property list of controls and details of the respective controls.

3.1 Property List

The following table shows the properties of each control.

Control name		Property name
ACT Control	ActUtlType ActMLUtlType ActUtlDataLogging	ActLogicalStationNumber
		ActPassword
	ActProgType ActMLProgType ActProgDataLogging	ActATCommand[*1]
		ActATCommandPasswordCancelRetryTimes[*1]
		ActATCommandResponseWaitTime[*1]
		ActBaudRate
		ActCallbackCancelWaitTime[*1]
		ActCallbackDelayTime[*1]
		ActCallbackNumber[*1]
		ActCallbackReceptionWaitingTimeOut[*1]
		ActConnectionCDWaitTime[*1]
		ActConnectionModemReportWaitTime[*1]
		ActConnectUnitNumber
		ActConnectWay[*1]
		ActControl
		ActCpuTimeOut
		ActCpuType
		ActDataBits
		ActDestinationIONumber
		ActDestinationPortNumber
		ActDialNumber[*1]
		ActDidPropertyBit
		ActDisconnectionCDWaitTime[*1]
		ActDisconnectionDelayTime[*1]
		ActDsidPropertyBit
		ActHostAddress
		ActIntelligentPreferenceBit
		ActIONumber
		ActLineType[*1]
		ActMultiDropChannelNumber
		ActMxUnitSeries[*2]
		ActNetworkNumber
		ActOutsideLineNumber[*1]
		ActPacketType
		ActParity
		ActPassword

Control name		Property name
ACT Control	ActProgType ActMLProgType ActProgDataLogging	ActPasswordCancelResponseWaitTime[*1]
		ActPortNumber
		ActProtocolType
		ActSourceNetworkNumber
		ActSourceStationNumber
		ActStationNumber
		ActStopBits
		ActSumCheck
		ActTargetSimulator
		ActThroughNetworkType
		ActTimeOut
		ActTransmissionDelayTime[*1]
		ActUnitNumber
		ActUnitType
	ActSupportMsg ActMLSupportMsg	—
.NET Control	DotUtlType	ActLogicalStationNumber
		ActPassword
	DotSupportMsg	—

*1 A property for modem communication. It can only be used for ActProgType.

*2 The property value is set automatically, and it cannot be changed.

3.2 Details of Control Properties

This section explains the details of properties set when creating a user application.

Properties of utility setting type controls

The following table shows the properties of the Act(ML)UtlType control and the DotUtlType control.

Property name (Type)	Description	Default value
ActLogicalStationNumber(LONG)	A logical station number set in Communication Setup Utility. (Applicable setting range: 0 to 1023)	0(0x00)
ActPassword(BSTR)	Specify a password to disable the password set to the password protected modules.*1*2*3 This setting is ignored when a password protected module is not used.	Empty

*1 The setting of ActPassword is not necessary if a password is not set.
*2 Characters exceeded the maximum number of characters for the password are ignored.
*3 If characters other than alphanumeric are specified, a character code conversion error (0xF1000001) occurs at the execution of the Open function.

Properties of program setting type controls

The following table shows the properties of the Act(ML)ProgType control.

Property name (Type)	Description	Default value
ActMxUnitSeries(LONG)	Specify the series of connection target module. The property value is set automatically, and it cannot be changed. ■Property value 0 (0x00): Specify programmable controller/motion controller/GOT. 1 (0x01): Specify inverter. 2 (0x02): Specify robot controller.	0(0x00)
ActNetworkNumber(LONG)	Specify the network number for MELSECNET/H. (Specify "0" (0x00) when specifying the host station.) Specify a network number for accessing other station with GX Simulator. Specify the following value for the multi-drop connection (via Q series-compatible C24, QJ61BT11). ■Property value of ActIntelligentPreferenceBit 0 (0x00): Specify the own network. 1 (0x01): Specify another network of multi-drop destination.	0(0x00)
ActStationNumber(LONG)	Specify the station number for MELSECNET/H or CC-Link. (Specify "255" (0xFF) when specifying the host station.) Specify the station number for accessing other station with GX Simulator. For GX Simulator3, specify a system number. Specify the following value for the multi-drop connection (via Q series-compatible C24, QJ61BT11). ■Property value of ActIntelligentPreferenceBit 0 (0x00): Specify the own network. 1 (0x01): Specify another network of multi-drop destination. For inverter communication, specify the inverter station number (0 to 31) to be connected.	255(0xFF)
ActUnitNumber(LONG)	Specify the module number of the serial communication module or the station number when the target is the Q series-compatible intelligent function module. This setting is invalid when the target is not a serial communication or Q series-compatible intelligent function module. For multi-drop link, specify the module number of the target serial communication module.	0(0x00)
ActConnectUnitNumber(LONG)	Specify the module number of serial communication module, QE71, or Q series-compatible E71. For multi-drop link, specify the module number of the requesting serial communication module. For multi-drop link via CPU COM communication, however, the module number of the requesting station is not required. (Specify "0" (0x00)) Specify "0" (0x00) for other than multi-drop link. For QE71 and Q series-compatible E71, specify the relay target station number. (Fixed to "0" (0x00) for access within the own network) For access to another network via MELSECNET/10, specify the station number set in the parameter of the connected Ethernet module.	0(0x00)
ActIONumber(LONG)	Specify the module I/O number. For multi-drop link or intelligent function module access, specify the actual I/O number (start I/O number divided by 16) of the target serial communication module or intelligent function module. (For multi-drop link, specify the I/O number of the relayed or requesting station) Specify "992" (0x3E0) to "1023" (0x3FF) when making access to another station via the host station CPU or network.	1023(0x3FF)

Property name (Type)	Description	Default value
ActCpuType(LONG)	When the ActMxUnitSeries property is set to '0' (programmable controller/motion controller) Specify the target CPU to communicate with. In the parameter, specify the CPU type in the following table. ☞ Page 68 ActCpuType(LONG): When the ActMxUnitSeries property is set to '0' (programmable controller/motion controller)	34(CPU_Q02CPU)
	When the ActMxUnitSeries property is set to '1' (Inverter) Specify the target Inverter to communicate with. In the parameter, specify the CPU type in the following table. ☞ Page 70 ActCpuType(LONG): When the ActMxUnitSeries property is set to '1' (Inverter)	
	When the ActMxUnitSeries property is set to '2' (Robot) Specify the target Robot to communicate with. In the parameter, specify the CPU type in the following table. ☞ Page 70 ActCpuType(LONG): When the ActMxUnitSeries property is set to '2' (Robot)	
ActPortNumber(LONG)	Specify the connection port number of personal computer. When an Ethernet module is connected, set any value as a port number of the requesting source (personal computer). When "=0" was specified as a port number, the Station No. ↔ IP information system should be the automatic response system. (When the system other than the automatic response system via QE71 is selected, set the fixed value "5001".) When the network board is used, specify the first board as PORT_1, and the second and subsequent boards as PORT_2, PORT_3, and so on. ☞ Page 71 ActPortNumber(LONG)	1(PORT_1)
ActBaudRate(LONG)	Specify the baud rate for serial communication. ■Property value (Property window input value) BAUDRATE_300 (300): 300bps BAUDRATE_600 (600): 600bps BAUDRATE_1200 (1200): 1200bps BAUDRATE_2400 (2400): 2400bps BAUDRATE_4800 (4800): 4800bps BAUDRATE_9600 (9600): 9600bps BAUDRATE_19200 (19200): 19200bps BAUDRATE_38400 (38400): 38400bps BAUDRATE_57600 (57600): 57600bps BAUDRATE_115200 (115200): 115200bps For inverter communication, specify the property value greater than BAUDRATE_4800 (4800).	19200(BAUDRATE_19200)
ActDataBits(LONG)	Specify the number of bits of the byte data sent and received for serial communication. ■Property value (Property window input value) DATABIT_7 (7): 7 bits DATABIT_8 (8): 8 bits For robot controller, specify the character size.	8(DATABIT_8)
ActParity(LONG)	Specify the parity system used for serial communication. ■Property value (Property window input value) NO_PARITY (0): No parity ODD_PARITY (1): Odd EVEN_PARITY (2): Even	1(ODD_PARITY)
ActStopBits(LONG)	Specify the number of stop bits used for serial communication. ■Property value (Property window input value) STOPBIT_ONE (0): 1 stop bit STOPBITS_TWO (2): 2 stop bits For robot controller, specify the following setting. ■Property value (Property window input value) ONESTOPBIT (0): 1 stop bit ONE5STOPBITS (1): 1.5 stop bits TWOSTOPBITS (2): 2 stop bits	0(STOPBIT_ONE)
ActControl(LONG)	Specify the control setting of the signal line. ☞ Page 71 ActControl(LONG)	8(TRC_DTR_OR_RTS)
ActHostAddress(BSTR)	Pointer which indicates the connection host name (IP address) for Ethernet communication.	1.1.1.1
ActCpuTimeOut(LONG)	Specify the CPU watchdog timer for Ethernet communication. (Unit: Multiplied by 250 ms) For FXCPU/inverter, specify the transmission waiting time for serial communication of FXCPU/inverter. (Unit: Multiplied by 10 ms) For robot controller, specify the transmission timeout time. (1000 to 30000 ms)	0(0x00)

Property name (Type)	Description	Default value
ActTimeOut(LONG)	Set the time-out value of communication between the personal computer and programmable controller/inverter. (Unit: ms) For robot controller, specify the transmission timeout time. (5000 to 120000 ms) A time-out processing may be performed internally depending on the communication path in MX Component. For details, refer to the following section. ☞ Page 586 Time-Out Periods	10000
ActSumCheck(LONG)	Specify whether sum check is applied or not. This setting is valid for serial communication module only. ■Property value (Property window input value) NO_SUM_CHECK (0): Without sum check SUM_CHECK (1): With sum check	0(NO_SUM_CHECK)
ActSourceNetworkNumber(LONG)	Specify the requesting network number when the QE71 or Q series-compatible E71 is specified. Specify the same network number (which is specified in the network parameter) as that of the connected QE71 or Q series-compatible E71.	0(0x00)
ActSourceStationNumber(LONG)	Specify the requesting station number (personal computer side station number) when the QE71 or Q series-compatible E71 is specified. Set the setting to avoid setting the same station number as that of the QE71 set within the same Ethernet loop.	0(0x00)
ActDestinationPortNumber(LONG)	Specify the port number of the target when Ethernet communication is specified. When accessing another network, specify the relay destination port number. For the system other than the automatic response system, set the following setting. ■Setting R series-compatible E71 (TCP/IP) - MELSOFT connection: Fixed to "5002" R series-compatible E71 (TCP/IP) - OPS connection: Depending on network parameter R series-compatible E71(UDP/IP): Fixed to "5001" QE71(UDP/IP): Fixed to "5001" Q series-compatible E71 (TCP/IP) - Other than Redundant CPU: Fixed to "5002" Q series-compatible E71 (TCP/IP) - MELSOFT connection[*1]: Fixed to "5002" Q series-compatible E71 (TCP/IP) - OPS connection[*1]: Depending on network parameter Q series-compatible E71(UDP/IP): Fixed to "5001"	0(0x00)
ActDestinationIONumber(LONG)	For multi-drop connection (via R series-compatible C24/Q series-compatible C24/L series-compatible C24/CC-Link), specify the actual I/O number (start I/O number divided by 16) of the last access target station. (When the target is an intelligent function module) Specify "992" (0x3E0) to "1023" (0x3FF) when making access to another station via the host station CPU or network.	0(0x00)
ActMultiDropChannelNumber(LONG)	For multi-drop connection (via R series-compatible C24/Q series-compatible C24/L series-compatible C24/CC-Link), specify the multi-drop connection channel number (CH1/CH2). For robot controller, specify the retry count at communication error. (0 to 10 times) This setting is invalid for other connections.	0(0x00)
ActThroughNetworkType(LONG)	Specify whether MELSECNET/10 is included in the relayed network when accessing other station via network. ■Property value 0 (0x00): MELSECNET/10 is not included. 1 (0x01): MELSECNET/10 is included. For robot controller, specify the protocol to be used (communication method). (Procedural (0)/ Nonprocedural (1))	0(0x00)
ActIntelligentPreferenceBit(LONG)	For multi-drop connection (via R series-compatible C24/Q series-compatible C24/L series-compatible C24/CC-Link), specify whether to relay the network of the multi-drop link destination. (To differentiate the own network module.) ■Property value 0 (0x00): Another network of multi-drop link destination is not accessed. 1 (0x01): Another network of multi-drop link destination is accessed.	0(0x00)
ActDidPropertyBit(LONG)	For accessing the Q series-compatible host station intelligent function module (intelligent function module mounted on the host station CPU), the setting of "ActUnitNumber" is not necessary by invalidating the following setting. (Specify the property with the setting of "ActIONumber" only.) ■Property value 0 (0x00): Module number is validated. 1 (0x01): Module number is invalidated.	1(0x01)
ActDsidPropertyBit(LONG)	For multi-drop connection (via R series-compatible C24/Q series-compatible C24/L series-compatible C24/CC-Link), the setting of "ActDestinationIONumber" is not necessary by invalidating the following setting. However, when the following setting is invalidated, validate the setting of "ActDidPropertyBit". (Specify the property with the setting of "ActUnitNumber".) ■Property value 0 (0x00): I/O number of the last access target station is validated. 1 (0x01): I/O number of the last access target station is invalidated.	1(0x01)

Property name (Type)	Description	Default value
ActPacketType(LONG)[*2]	Specify whether CR/LF exists or not. ■Property value (Property window input value) CRLF_NONE (0): Without CR/LF CRLF_CR (1): With CR CRLF_CRLF (2): With CR/LF	1(CRLF_CR)
ActPassword(BSTR)[*3]	Specify a password to disable the password set to the password protected modules.[*4*5*6] This setting is ignored when a password protected module is not used.	Empty
ActConnectWay(LONG)[*7]	Set the connection system. ☞ Page 71 ActConnectWay(LONG)	0(TEL_AUTO_CONNECT)
ActATCommand(BSTR)[*7]	Specify the AT command that initializes the modem. If no value (do not enter the property value) is set, the modem-standard AT command is used. Up to 70 characters can be set.[*8]	Empty
ActDialNumber(BSTR)[*7]	Specify the telephone number. Up to 50 characters can be set.[*8] (The characters that can be set are: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, *, #)	Empty
ActOutsideLineNumber(BSTR)[*7]	Specify the number to access the outside line. Up to 10 characters can be set. (The characters that can be set are: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, *, #)	Empty
ActCallbackNumber(BSTR)[*7]	Specify the callback telephone number.[*8] Up to 62 characters can be set. (The characters that can be set are: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, *, #) The setting of the connection system is not necessary when the connection system (ActConnectWay) is other than auto line connect (callback number specification), callback connect (number specification), or callback request (number specification).	Empty
ActLineType(LONG)[*7]	Recognize the line type. ☞ Page 71 ActLineType(LONG)	1(LINETYPE_TONE)
ActConnectionCDWaitTime(LONG)[*7]	Line connection CD signal confirmation time Set the time for watching the ON/OFF of the CD signal line when the line is connected. (Applicable setting range: 1 to 999, unit: seconds) Increase the set time if the CD signal does not turn ON within the preset time depending on the line-connected region (Example: overseas).	90
ActConnectionModemReportWaitTime(LONG)[*7]	Line connection modem waiting time Set the waiting time for a result code response from the modem after line connection. (Applicable setting range: 1 to 999, unit: seconds) Increase the set time if the response speed of the modem is slow.	5
ActDisconnectionCDWaitTime(LONG)[*7]	Line disconnection CD signal confirmation time Set the time for watching the ON/OFF of the CD signal line when the line is disconnected. (Applicable setting range: 1 to 999, unit: seconds) Increase the set time if the CD signal does not turn OFF within the preset time depending on the line-connected region (Example: overseas).	5
ActDisconnectionDelayTime(LONG)[*7]	Line disconnection delay time Set the guard time (no communication time) of the escape command sent to the modem. (Applicable setting range: 1 to 999, unit: seconds) Increase the set time if the response speed of the modem is slow.	3
ActTransmissionDelayTime(LONG)[*7]	Data send delay time Set the time to be provided before the AT command is sent. (Applicable setting range: 0 to 999, unit: seconds) Increase the set time if the error code (0xF2100008) is returned even though the correct AT command is set. Increase the set time if the response speed of the modem is slow.	0
ActATCommandResponseWaitTime(LONG)[*7]	AT command send response waiting time (Applicable setting range: 1 to 999, unit: seconds) Increase the set time if the response speed of the modem is slow.	1
ActPasswordCancelResponseWaitTime(LONG)[*7]	Password cancel response waiting time (Applicable setting range: 1 to 999, unit: seconds) Increase the set time if the quality of the line with the other end is low.	5
ActATCommandPasswordCancelRetryTimes(LONG)[*7]	AT command/password cancel send retry count (Applicable setting range: 1 to 999, unit: number of times)	3
ActCallbackCancelWaitTime(LONG)[*7]	Callback line disconnection waiting time (Applicable setting range: 1 to 180, unit: seconds) Increase the set time if the line at the other end (Q series-compatible C24) is not disconnected within the preset time depending on the line-connected region (Example: overseas). The setting is not necessary when the connection system (ActConnectWay) is other than callback connect or callback request.	90
ActCallbackDelayTime(LONG)[*7]	Callback execution delay time (Applicable setting range: 1 to 999, unit: seconds) Increase the set time if the device for relaying connection to the line (Example: modem or like) requires the predetermined time for reconnection after line disconnection. The setting is not necessary when the connection system (ActConnectWay) is other than callback connect or callback request.	20

Property name (Type)	Description	Default value
ActCallbackReceptionWaitingTimeOut(LONG)*7	Callback receive waiting time-out period (Applicable setting range: 1 to 3600, unit: seconds) Set the waiting time for a telephone line connection request from Q series-compatible C24 in a callback receive waiting status. If the set time elapsed, the callback reception waiting status is exited, and since the connection of the telephone line was not completed, the Connect function is terminated abnormally. The setting is not necessary when the connection system (ActConnectWay) is other than callback reception waiting.	120
ActTargetSimulator(LONG)	Specify the connection destination GX Simulator2 in start status. When connecting to FXCPU, specify "0" (0x00). ■Property value 0 (0x00): None (When only one simulator is in start status, connects to the simulator in start status. When multiple simulators are in start status, search for the simulators in start status and connect them in alphabetical order.) 1 (0x01): Simulator A 2 (0x02): Simulator B 3 (0x03): Simulator C 4 (0x04): Simulator D	0(0x00)
	Specify the PLC number of the connection destination GX Simulator3 in start status.	
	Specify the connection destination MT Simulator2 in start status. ■Property value 2 (0x02): Simulator No.2 3 (0x03): Simulator No.3 4 (0x04): Simulator No.4	
ActUnitType(LONG)	Specify the module type connected to the physical port. ☞ Page 72 ActUnitType(LONG)	0x13(UNIT_QNCPU)
ActProtocolType(LONG)	Specify the communication protocol type of the module (board) to be connected. ☞ Page 74 ActProtocolType(LONG)	0x04(PROTOCOL_SERIAL)

*1 For details, refer to the following manual.
Q Corresponding Ethernet Interface Module User's Manual (Basic)
*2 This property can be used for inverter communication.
*3 This property can be used for Ethernet communication.
*4 The setting of ActPassword is not necessary if a password is not set.
*5 Characters exceeded the maximum number of characters for the password are ignored.
*6 If a character other than alphanumeric is specified, a character code conversion error (0xF1000001) occurs at the execution of the Open function.
*7 This property can be used for modem communication. It cannot be used for ActMLProgType control.
*8 If the characters entered exceed the limit of set characters, the characters outside the setting range are ignored.

■ActCpuType(LONG): When the ActMxUnitSeries property is set to '0' (programmable controller/motion controller)

Property value (Property window input value)			Target CPU
CPU type	Dec.	Hex.	
CPU_R00CPU	4609	0x1201	R00CPU
CPU_R01CPU	4610	0x1202	R01CPU
CPU_R02CPU	4611	0x1203	R02CPU
CPU_R04CPU	4097	0x1001	R04CPU
CPU_R04ENCPU	4104	0x1008	R04ENCPU
CPU_R08CPU	4098	0x1002	R08CPU
CPU_R08ENCPU	4105	0x1009	R08ENCPU
CPU_R08PCPU	4354	0x11102	R08PCPU
CPU_R08PSFCPU	4369	0x1111	R08PSFCPU
CPU_R08SFCPU	4386	0x1122	R08SFCPU
CPU_R16CPU	4099	0x1003	R16CPU
CPU_R16ENCPU	4106	0x100A	R16ENCPU
CPU_R16PCPU	4355	0x1103	R16PCPU
CPU_R16PSFCPU	4370	0x1112	R16PSFCPU
CPU_R16SFCPU	4387	0x1123	R16SFCPU
CPU_R32CPU	4100	0x1004	R32CPU
CPU_R32ENCPU	4107	0x100B	R32ENCPU

Property value (Property window input value)			Target CPU
CPU type	Dec.	Hex.	
CPU_R32PCPU	4356	0x1104	R32PCPU
CPU_R32PSFCPU	4371	0x1113	R32PSFCPU
CPU_R32SFCPU	4388	0x1124	R32SFCPU
CPU_R120CPU	4101	0x1005	R120CPU
CPU_R120ENCPU	4108	0x100C	R120ENCPU
CPU_R120PCPU	4357	0x1105	R120PCPU
CPU_R120PSFCPU	4372	0x1114	R120PSFCPU
CPU_R120SFCPU	4389	0x1125	R120SFCPU
CPU_R16MTCPU	4113	0x1011	R16MTCPU
CPU_R32MTCPU	4114	0x1012	R32MTCPU
CPU_R12CCPU-V	4129	0x1021	R12CCPU-V
CPU_L04HCPU	4625	0x1211	L04HCPU
CPU_L08HCPU	4626	0x1212	L08HCPU
CPU_L16HCPU	4627	0x1213	L16HCPU
CPU_Q00JCPU	48	0x30	Q00JCPU
CPU_Q00UJCPU	128	0x80	Q00UJCPU
CPU_Q00CPU	49	0x31	Q00CPU
CPU_Q00UCPU	129	0x81	Q00UCPU
CPU_Q01CPU	50	0x32	Q01CPU
CPU_Q01UCPU	130	0x82	Q01UCPU
CPU_Q02CPU	34	0x22	Q02(H)CPU
CPU_Q02PHCPU	69	0x45	Q02PHCPU
CPU_Q02UCPU	131	0x83	Q02UCPU
CPU_Q03UDCPU	112	0x70	Q03UDCPU
CPU_Q03UDECPU	144	0x90	Q03UDECPU
CPU_Q03UDVCPU	209	0xD1	Q03UDVCPU
CPU_Q04UDHCPU	113	0x71	Q04UDHCPU
CPU_Q04UDEHCPU	145	0x91	Q04UDEHCPU
CPU_Q04UDVCPU	210	0xD2	Q04UDVCPU
CPU_Q06CPU	35	0x23	Q06HCPU
CPU_Q06PHCPU	70	0x46	Q06PHCPU
CPU_Q06UDHCPU	114	0x72	Q06UDHCPU
CPU_Q06UDEHCPU	146	0x92	Q06UDEHCPU
CPU_Q06UDVCPU	211	0xD3	Q06UDVCPU
CPU_Q10UDHCPU	117	0x75	Q10UDHCPU
CPU_Q10UDEHCPU	149	0x95	Q10UDEHCPU
CPU_Q12CPU	39	0x24	Q12HCPU
CPU_Q12PHCPU	65	0x41	Q12PHCPU
CPU_Q12PRHCPU	67	0x43	Q12PRHCPU
CPU_Q13UDHCPU	115	0x73	Q13UDHCPU
CPU_Q13UDEHCPU	147	0x93	Q13UDEHCPU
CPU_Q13UDVCPU	212	0xD4	Q13UDVCPU
CPU_Q20UDHCPU	118	0x76	Q20UDHCPU
CPU_Q20UDEHCPU	150	0x96	Q20UDEHCPU
CPU_Q25CPU	37	0x25	Q25HCPU
CPU_Q25PHCPU	66	0x42	Q25PHCPU
CPU_Q25PRHCPU	68	0x44	Q25PRHCPU
CPU_Q26UDHCPU	116	0x74	Q26UDHCPU
CPU_Q26UDEHCPU	148	0x94	Q26UDEHCPU
CPU_Q26UDVCPU	213	0xD5	Q26UDVCPU
CPU_Q50UDEHCPU	152	0x98	Q50UDEHCPU
CPU_Q100UDEHCPU	154	0x9A	Q100UDEHCPU

Property value (Property window input value)			Target CPU
CPU type	Dec.	Hex.	
CPU_Q02CPU_A	321	0x141	Q02(H)CPU-A
CPU_Q06CPU_A	322	0x142	Q06HCPU-A
CPU_L02SCPU	163	0xA3	L02SCPU
CPU_L02CPU	161	0xA1	L02CPU
CPU_L06CPU	165	0xA5	L06CPU
CPU_L26CPU	164	0xA4	L26CPU
CPU_L26CPUBT	162	0xA2	L26CPU-BT
CPU_Q12DC_V	88	0x58	Q12DCCPU-V
CPU_Q24DHC_V	89	0x59	Q24DHCCPU-V
CPU_Q24DHC_LS	91	0x5B	Q24DHCCPU-LS
CPU_Q24DHC_VG	92	0x5C	Q24DHCCPU-VG
CPU_Q26DHC_LS	93	0x5D	Q26DHCCPU-LS
CPU_QS001CPU	96	0x60	QS001CPU
CPU_Q172CPU	1569	0x621	Q172CPU
CPU_Q173CPU	1570	0x622	Q173CPU
CPU_Q172HCPU	1569	0x621	Q172HCPU
CPU_Q173HCPU	1570	0x622	Q173HCPU
CPU_Q172DCPU	1573	0x625	Q172DCPU
CPU_Q173DCPU	1574	0x626	Q173DCPU
CPU_Q172DSCPU	1578	0x62A	Q172DSCPU
CPU_Q173DSCPU	1579	0x62B	Q173DSCPU
CPU_FX0CPU	513	0x201	FX0(S)CPU
CPU_FX0NCPU	514	0x202	FX0NCPU
CPU_FX1CPU	515	0x203	FX1CPU
CPU_FX1SCPU	518	0x206	FX1SCPU
CPU_FX1NCPU	519	0x207	FX1N(C)CPU
CPU_FX2CPU	516	0x204	FXUCPU FX2CCPU
CPU_FX2NCPU	517	0x205	FX2N(C)CPU
CPU_FX3SCPU	522	0x20A	FX3SCPU
CPU_FX3GCPU	521	0x209	FX3G(C)CPU
CPU_FX3UCCPU	520	0x208	FX3U(C)CPU
CPU_FX5UCPU	528	0x0210	FX5UCPU
CPU_BOARD	1025	0x401	For own board access*1

*1 Except for CPU boards and AF boards.

■ActCpuType(LONG): When the ActMxUnitSeries property is set to '1' (Inverter)

Property value (Property window input value)			Target CPU
CPU type	Dec.	Hex.	
INV_A800	7776	0x1E60	A800

■ActCpuType(LONG): When the ActMxUnitSeries property is set to '2' (Robot)

Property value (Property window input value)			Target CPU
CPU type	Dec.	Hex.	
UCPU_CRD700	77825	0x13001	CRnD-7xx/CR75x-D

■ActPortNumber(LONG)

Property value (Property window input value)			Description
Port number	Dec.	Hex.	
PORT_1	1	0x01	Communication port 1
PORT_2	2	0x02	Communication port 2
PORT_3	3	0x03	Communication port 3
PORT_4	4	0x04	Communication port 4
PORT_5	5	0x05	Communication port 5
PORT_6	6	0x06	Communication port 6
PORT_7	7	0x07	Communication port 7
PORT_8	8	0x08	Communication port 8
PORT_9	9	0x09	Communication port 9
PORT_10	10	0x0A	Communication port 10

■ActControl(LONG)

Property value (Property window input value)			Description
Control setting	Dec.	Hex.	
TRC_DTR	1	0x01	DTR control
TRC_RTS	2	0x02	RTS control
TRC_DRT_AND_RTS	7	0x07	DTR control and RTS control
TRC_DTR_OR_RTS	8	0x08	DTR control or RTS control

■ActConnectWay(LONG)

Property value (Property window input value)			Connection system
Connection system	Dec.	Hex.	
TEL_AUTO_CONNECT	0	0x00	Auto line connect
TEL_AUTO_CALLBACK	1	0x01	Auto line connect (Callback fixation)
TEL_AUTO_CALLBACK_NUMBER	2	0x02	Auto line connect (Callback number specification)
TEL_CALLBACK	3	0x03	Callback connect (Fixation)
TEL_CALLBACK_NUMBER	4	0x04	Callback connect (Number specification)
TEL_CALLBACK_REQUEST	5	0x05	Callback request (Fixation)
TEL_CALLBACK_REQUEST_NUMBER	6	0x06	Callback request (Number specification)
TEL_CALLBACK_WAIT	7	0x07	Callback reception waiting

■ActLineType(LONG)

Property value (Property window input value)			Description
Line type	Dec.	Hex.	
LINETYPE_PULSE	0	0x00	Pulse (Dial line)
LINETYPE_TONE	1	0x01	Tone (Push button line)
LINETYPE_ISDN	2	0x02	ISDN (ISDN line)

■ActUnitType(LONG)

Module type	Connection system	Value
UNIT_RJ71C24	R series-compatible C24 module direct connection	0x1000
	R series-compatible C24 connection via GOT2000/1000 series	
UNIT_QJ71C24	Q series-compatible C24 module direct connection	0x19
	Q series-compatible C24 connection via modem	
	Q series-compatible C24 connection via GOT2000/1000 series	
UNIT_LJ71C24	L series-compatible C24 module direct connection	0x54
	L series-compatible C24 connection via modem	
	L series-compatible C24 connection via GOT2000/1000 series	
UNIT_FX485BD	FX extended port (RS-485) connection	0x24
UNIT_RJ71EN71	Via R series-compatible E71 connection (IP specification)	0x1001
UNIT_RJ71EN71_DIRECT	Via R series-compatible E71 connection (Direct connection)	0x1005
UNIT_QJ71E71	Q series-compatible E71 Ethernet port connection/direct connection	0x1A
UNIT_LJ71E71	L series-compatible E71 module connection	0x5C
UNIT_RETHER	RCPU Ethernet port connection (IP specification)	0x1002
UNIT_LHETHER	LHCPU Ethernet port connection (IP specification)	
UNIT_RETHER_DIRECT	RCPU Ethernet port direct connection	0x1003
UNIT_LHETHER_DIRECT	LHCPU Ethernet port direct connection	
UNIT_FXVETHER	FX5CPU Ethernet port connection	0x2001
UNIT_FXVETHER_DIRECT	FX5CPU Ethernet port direct connection	0x2002
UNIT_LNETHER	LCPU Ethernet port connection	0x52
UNIT_LNETHER_DIRECT	LCPU Ethernet port direct connection	0x53
UNIT_QNETHER	QCPU Ethernet port connection	0x2C
UNIT_QNETHER_DIRECT	QCPU Ethernet port direct connection	0x2D
UNIT_RJ71GN11	RJ71GN11-T2 module for RCPU IP specified connection	0x1006
UNIT_RJ71GN11_DIRECT	RJ71GN11-T2 module for RCPU direct connection	0x1007
UNIT_NZ2GF_ETB	Ethernet adapter module (NZ2GF-ETB) connection	0x59
UNIT_NZ2GF_ETB_DIRECT	Ethernet adapter module (NZ2GF-ETB) direct connection	0x5A
UNIT_FXETHER	FXCPU Ethernet adapter (FX3U-ENET-ADP) via hub	0x4A
UNIT_FXETHER_DIRECT	FXCPU Ethernet adapter (FX3U-ENET-ADP) direct connection	0x4B
UNIT_FXVCPU	FX5CPU Serial port connection	0x2000
UNIT_QNCPU	QCPU (Q mode) RS232C port direct connection	0x13
	GOT2000/1000 series QCPU (Q mode) direct connection	
UNIT_LNCPU	LCPU RS232C port direct connection	0x50
	GOT2000/1000 series LCPU direct connection	
UNIT_QNMOTION	Q motion CPU-RS232C port direct connection	0x1C
UNIT_FXCPU	FXCPU-RS422 port direct connection	0x0F
	FXCPU direct connection via modem	
	FXCPU USB direct connection	
	GOT2000/1000 series FXCPU direct connection	
UNIT_RUSB	RCPU USB port direct connection	0x1004
UNIT_LHUSB	LHCPU USB port direct connection	
UNIT_QNUSB	QCPU (Q mode) USB port direct connection	0x16
UNIT_LNUSB	LCPU USB port direct connection	0x51
UNIT_QSUSB	QSCPU (Safety programmable controller) USB port connection	0x29
UNIT_QNMOTIONUSB	Q motion CPU USB port direct connection	0x1D
UNIT_MNETHBOARD	MELSECNET/H board connection	0x1E
UNIT_MNETGBOARD	CC-Link IE Controller Network board connection	0x2B
UNIT_CCIEFBOARD	CC-Link IE Field Network board connection	0x2F
UNIT_CCLINKBOARD	CC-Link Ver.2 board connection	0x0C
UNIT_G4QNCPU	Q series-compatible AJ65BT-G4-S3 module direct connection	0x1B
UNIT_SIMULATOR	Simulator (GX Simulator) connection	0x0B

Module type	Connection system	Value
UNIT_SIMULATOR2[*1]	Simulator (GX Simulator 2) connection	0x30
	Simulator (MT Simulator 2) connection	
UNIT_SIMULATOR3	Simulator (GX Simulator 3) connection	0x31
UNIT_A900GOT	GOT2000/1000/900 series connection	0x21
UNIT_GOT_RJ71EN71	R series-compatible E71 connection via GOT2000/1000 series	0x1051
UNIT_GOT_QJ71E71	Q series-compatible E71 connection via GOT2000/1000 series	0x40
UNIT_GOT_LJ71E71	L series-compatible E71 connection via GOT2000/1000 series	0x5D
UNIT_GOT_RETHER	RCPU Ethernet port connection via GOT2000/1000 series	0x1052
UNIT_GOT_QNETHER	QCPU Ethernet port connection via GOT2000/1000 series	0x41
UNIT_GOT_LNETHER	LCPU Ethernet port connection via GOT2000/1000 series	0x55
UNIT_GOT_NZ2GF_ETB	Ethernet adapter module (NZ2GF-ETB) connection via GOT2000/1000 series	0x5B
UNIT_GOT_FXETHER	FXCPU Ethernet adapter (FX3U-ENET-ADP) connection via GOT2000/1000 series	0x61
UNIT_GOT_FXENET	FXCPU Ethernet module (FX3U-ENET(-L)) connection via GOT2000/1000 series	0x62
UNIT_GOT_FXVCPU	FX5CPU Serial port connection via GOT2000/1000 series	0x2005
UNIT_GOTETHER_FXVCPU	FX5CPU Ethernet port connection via GOT2000/1000 series	0x2006
UNIT_GOT_FXVETHER	Built-in Ethernet port FX5CPU connection via GOT2000/1000 series	0x2007
UNIT_GOTETHER_RJ71C24	RCPU Ethernet port (RS422) connection via GOT2000/1000 series	0x1061
UNIT_GOTETHER_QNCPU	QCPU (Q mode) Ethernet port (RS422) connection via GOT2000/1000 series	0x56
UNIT_GOTETHER_LNCPU	LCPU Ethernet port (RS232C) connection via GOT2000/1000 series	0x57
UNIT_GOTETHER_FXCPU	FXCPU Ethernet port connection via GOT2000/1000 series	0x60
UNIT_GOTETHER_QBUS	Q series bus Ethernet port connection via GOT2000/1000 series	0x58
UNIT_GOTETHER_QN_ETHER	GOT Ethernet transparent (Ethernet-GOT-Ethernet-QnCPU) connection	0x6F
UNIT_QBF	Bus connection	0x1F

*1 When the CPU type is Q motion CPU, connected to MT Simulator2. Other than that, connected to GX Simulator2.

■ActProtocolType(LONG)

Communication protocol type	Connection system	Value
PROTOCOL_SERIAL	Via serial port	0x04(4)
PROTOCOL_USB	Via USB port	0x0D(13)
PROTOCOL_TCPIP	Via TCP/IP	0x05(5)
PROTOCOL_UDPIP	Via UDP/IP	0x08(8)
PROTOCOL_MNETH	Via MELSECNET/H board	0x0F(15)
PROTOCOL_MNETG	Via CC-Link IE Controller Network board	0x14(20)
PROTOCOL_CCIEF	Via CC-Link IE Field Network board	0x15(21)
PROTOCOL_CCLINK	Via CC-Link	0x07(7)
PROTOCOL_SERIALMODEM	Via serial port and modem	0x0E(14)
PROTOCOL_TEL	Via TEL	0x0A(10)
PROTOCOL_QBF	Via Q series bus	0x10(16)
PROTOCOL_USBGOT	Via USB port and GOT	0x13(19)
PROTOCOL_SHAREDMEMORY	Via shared memory server (Simulator)	0x06(6)
COMM_RS232C	Inverter RS-232C communication	0x00(0)
COMM_USB *1	Inverter USB communication	0x01(1)
RC_PROTOCOL_SERIAL	Robot controller RS-232C communication	0x01(1)
RC_PROTOCOL_USB	Robot controller USB communication	0x04(4)
RC_PROTOCOL_TCPIP	Robot controller Ethernet (TCP/IP) communication	0x02(2)

*1 The communication protocol type can be used when ActMxUnitSeries is 1 (0x01).

4 PROPERTY SETTINGS OF COMMUNICATION PATHS

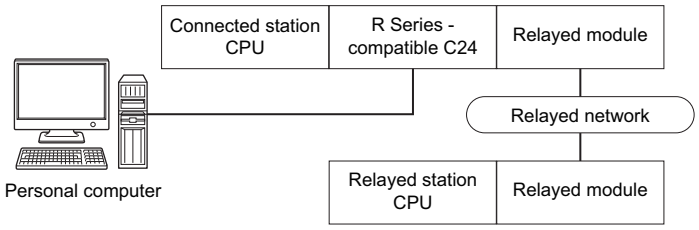
This chapter explains the details of accessible communication paths and property settings.

4.1 Serial Communication

Serial communication when the connected station is R series-compatible C24 1

When a relayed module other than the connected station side R series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*1*3	CC IE TSN	○(2)	×	×	×	×
		CC IE Control CC IE Field	○(2)*2	○(2)	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×
		Serial communication	○(3)	×	○(3)	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*1*3	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	×	○(2)*2	×	×	×
		MELSECNET/H	○(2)	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	×	○(4)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of R series-compatible C24.			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU No specification: 1023 (0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActParity	1(ODD_PARITY)	Fixed to 1(ODD_PARITY)			
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActHostAddress	1.1.1.1	Fixed to NULL			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 8 (0x08)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)			
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)			
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71C24			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side R series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of R series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

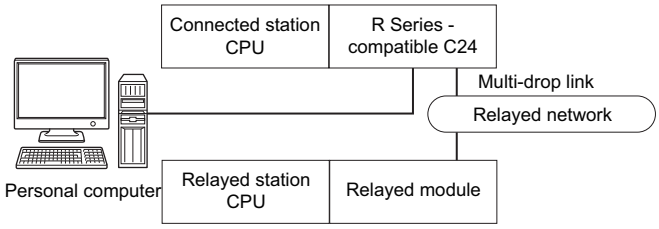
*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Serial communication when the connected station is R series-compatible C24 2

When performing multi-drop link on the connected station side R series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*1	○(1)	Serial communication	○(2)	×	×	×	×
Synchronous mode*2	×		○(3)	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU			QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*1	○(1)	Serial communication	○(2)	×	○(2)	×	×	×
Synchronous mode*2	×		○(3)	×	○(3)	×	×	×

*1 For the Independent mode, set the following parameters.
·CH1 side: Operation setting of Transmission setting = Independent (0), Communication protocol setting = 0
·CH2 side: Operation setting of Transmission setting = Independent (0)

*2 For the Synchronous mode, set the following parameters.
·CH1 side: Operation setting of Transmission setting = Independent (0), Communication protocol setting = 8
·CH2 side: Operation setting of Transmission setting = Synchronous (1), Communication protocol setting = 0

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of R series-compatible C24.		
ActConnectUnitNumber	0(0x00)	Connected station side module station number		Target station side module station number
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDestinationIONumber[*1]	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)		
ActIONumber[*1]	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)		
ActParity	1(ODD_PARITY)	Fixed to 1(ODD_PARITY)		
ActPortNumber	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL		
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1		
ActHostAddress	1.1.1.1	Fixed to NULL		
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)		
ActDataBits	8(DATABIT_8)	Fixed to 8 (0x08)		
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)		
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)		
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)		
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)		
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)		
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)		
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71C24		

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

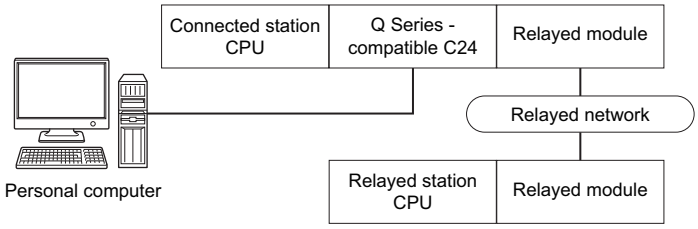
Point

When the connected station side R series-compatible C24 is set to the synchronous mode, always validate (ON) "sum check (SW06)" for the transmission specification software switch setting of the R series-compatible C24 parameter.
If it is invalidated (OFF), a communication error occurs and the communication is disabled.

Serial communication when the connected station is Q series-compatible C24 1

When a relayed module other than the connected station side Q series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU			Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*6	○(1)*1	CC IE TSN	×	×	×	×	×
			CC IE Control CC IE Field	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×
			Ethernet	×	×	×	×	×
			Serial communication	×	×	×	×	×
			CC-Link	×	×	×	×	×

Connected station CPU			Relayed network	Relayed station CPU					
QCPU (Q mode)	QCCPU	Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*6	○(1)*1	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	○(2)*2	○(2)*2	×
			MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
			Ethernet	○(2)	×	×	○(2)	○(2)	×
			Serial communication	○(3)*4	×	○(3)	×	○(3)	×
			CC-Link	○(4)	○(4)	○(4)	×	○(4)	○(4)*5

*1 Relayed stations cannot be accessed via Q motion CPU.

*2 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*5 Supported by FX3G(C)CPU and FX3U(C)CPU within the own network only.

*6 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of Q series-compatible C24.			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*2	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActParity	1(ODD_PARITY)	Match to the setting of Q series-compatible C24.			
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)			

*1 Note the following considerations when accessing via Ethernet module (Q series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of Q series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

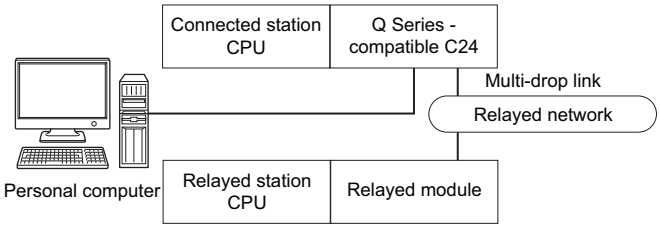
*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Serial communication when the connected station is Q series-compatible C24 2

When performing multi-drop link on the connected station side Q series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode), QCCPU[*3]			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode[*1]	○(1)	Serial communication	×	×	×	×	×
Synchronous mode[*1]	×		×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode), QCCPU[*3]			QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode[*1]	○(1)	Serial communication	○(2)[*2]	×	○(2)	×	×	×
Synchronous mode[*1]	×		○(2)[*2]	×	○(2)	×	×	×

*1 Indicates the CH2 side setting. (The CH1 side is fixed to the independent mode.)

*2 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of Q series-compatible C24.		
ActConnectUnitNumber	0(0x00)	Connected station side module station number		
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)		
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)		
ActParity	1(ODD_PARITY)	Match to the setting of Q series-compatible C24.		
ActPortNumber	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)		
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)		
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)		

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

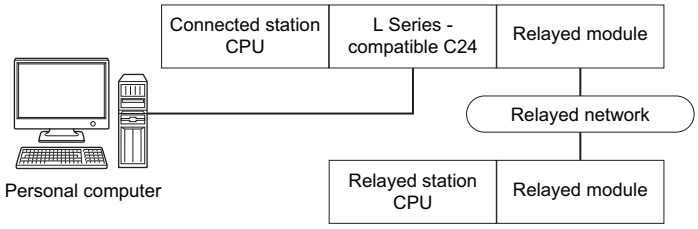
Point

When the connected station side Q series-compatible C24 is set to the synchronous mode, always validate (ON) "sum check (SW06)" for the transmission specification software switch setting of the Q series-compatible C24 parameter.
If it is invalidated (OFF), a communication error occurs and the communication is disabled.

Serial communication when the connected station is L series-compatible C24 1

When a relayed module other than the connected station side LJ71C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*1	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*1	○(4)	○(4)*2	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)*3	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Match to the setting of L series-compatible C24.			
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)			

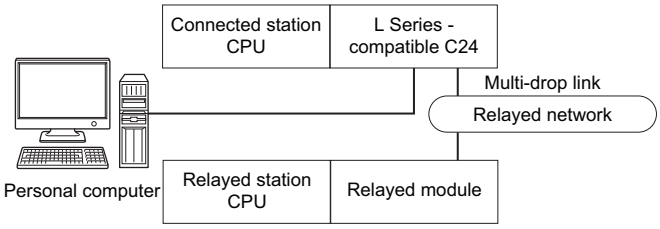
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Serial communication when the connected station is L series-compatible C24 2

When performing multi-drop link on the connected station side LJ71C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
LCPU			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode	○(1)	Serial communication	×	×	×	×	×
Synchronous mode	×		×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
LCPU			QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode	○(1)	Serial communication	○(2)*1	×	○(2)	×	×	×
Synchronous mode	×		○(3)*1	×	○(3)	×	×	×

*1 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

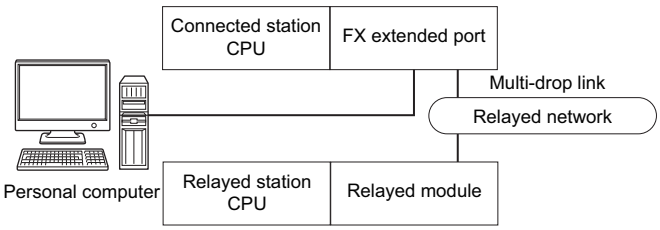
Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of L series-compatible C24.		
ActConnectUnitNumber	0(0x00)	Connected station side module station number		
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)		
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)		
ActParity	1(ODD_PARITY)	Match to the setting of L series-compatible C24.		
ActPortNumber	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)		
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)		
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)		

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Serial communication when the connected station is FX extended port

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	○(1)*1
	CC-Link	×	×	×	×	×	×

*1 FX0CPU, FX0SCPU, FX1CPU, FXUCPU, and FX2CCPU cannot be accessed.

Property list

The following table shows the property settings of communication paths.

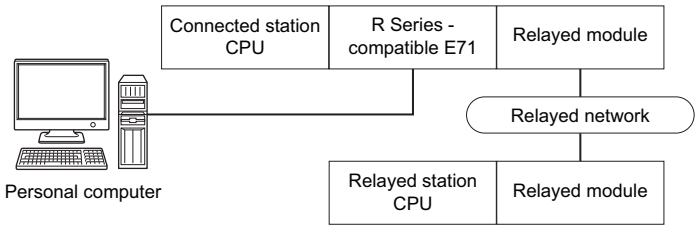
The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of FX extended port
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.
ActCpuTimeOut	0(0x00)	Any value specified by user in 10ms units
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActDataBits	8(DATABIT_8)	Match to the setting of FX extended port
ActParity	1(ODD_PARITY)	Match to the setting of FX extended port
ActPortNumber	1(PORT_1)	Personal computer side COM port number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)
ActStopBits	0(STOPBIT_ONE)	Match to the setting of FX extended port
ActSumCheck	0(NO_SUM_CHECK)	Match to the setting of FX extended port
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0(0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FX485BD(0x24)

4.2 Ethernet Communication

Ethernet communication when the connected station is R series-compatible E71 (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*1*2	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×
		Serial communication	○(3)	×	○(3)	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*1*2	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	×	○(4)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.

*2 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5002 for MELSOFT connection Any port number for OPS connection.*2			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*3	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*4	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*5	0(0x00)	Target station side module network number	Target station side module network number	Connected station side R series-compatible E71 network number	Connected station side R series-compatible E71 network number
ActPassword	Null	Password set to R series-compatible E71 on the connected station side			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActPortNumber	1(PORT_1)	Personal computer side port number			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActSourceNetworkNumber	0(0x00)	Personal computer side network number			
ActSourceStationNumber*6	0(0x00)	Personal computer side station number			
ActStationNumber*5	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side R series-compatible E71 station number	Connected station side R series-compatible E71 station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71EN71(0x1001)			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side R series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of R series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

*2 When using the OPS connection function for Redundant CPU, specify any port number that was set to the network parameter of the CPU. (The setting range is 1025 ≤ port number ≤ 4999 or 5003 ≤ port number ≤ 65534)

*3 For the I/O address, specify the value of the actual start I/O number divided by 16.

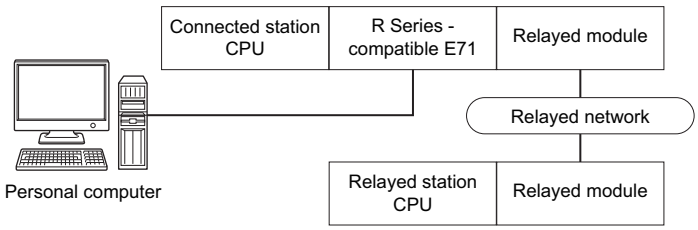
*4 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*5 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*6 Specify the station number on the personal computer side to avoid the same station number set for R series-compatible E71 within the same Ethernet loop.

Ethernet communication when the connected station is R series-compatible E71 (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*2*3	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×
		Serial communication	○(3)	×	○(3)	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*2*3	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	×	○(4)	×	×	×

*1 Relayed stations cannot be accessed when directly connecting to an R series-compatible E71.
*2 Relayed stations cannot be accessed via R motion CPU.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	For communication with IP address specified: 5001 For direct communication without IP address specified: 5003			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	For communication with IP address specified: Host name or IP address of the connected station side For direct communication without IP address specified: 255.255.255.255			
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Target station side module network number	Target station side module network number	Connected station side R series-compatible E71 network number	Connected station side R series-compatible E71 network number
ActPassword	Null	Password set to R series-compatible E71 on the connected station side			
ActPortNumber	1(PORT_1)	For communication with IP address specified: Personal computer side COM port number For direct communication without IP address specified: Unused			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActSourceNetworkNumber	0(0x00)	Personal computer side network number			
ActSourceStationNumber*5	0(0x00)	Personal computer side station number			
ActStationNumber*4	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side R series-compatible E71 station number	Connected station side R series-compatible E71 station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	For communication with IP address specified: UNIT_RJ71EN71(0x1001) For direst communication without IP address specified: UNIT_RJ71EN71_DIRECT(0x1005)			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side R series compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of R series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

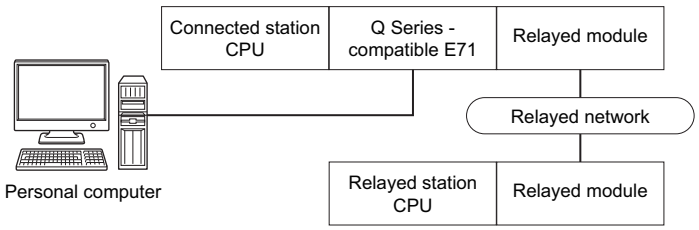
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 When the property pattern is ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*5 Specify the station number on the personal computer side to avoid the same station number set for R series-compatible E71 within the same Ethernet loop.

Ethernet communication when the connected station is Q series-compatible E71 (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU				Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU	QSCPU	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*6	○(1)*2	○(1)*1*2	CC IE TSN	×	×	×	×	×
				CC IE Control CC IE Field	×	×	×	×	×
				MELSECNET/H	×	×	×	×	×
				Ethernet	×	×	×	×	×
				Serial communication	×	×	×	×	×
				CC-Link	×	×	×	×	×

Connected station CPU				Relayed network	Relayed station CPU					
QCPU (Q mode)	QCCPU	QSCPU	Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*6	○(1)*2	○(1)*1*2	CC IE TSN	×	×	×	×	×	×
				CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	○(2)*2*3	○(2)*3	×
				MELSECNET/H	○(2)	○(2)	×	○(2)*2	○(2)	×
				Ethernet	○(2)	×	×	○(2)*2	○(2)	×
				Serial communication	○(3)*5	×	○(3)	×	○(3)	×
				CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Relayed stations cannot be accessed when the Q motion CPU is Q172CPU, Q173CPU, Q172HCPU, or Q173HCPU.
*2 Relayed stations cannot be accessed via QSCPU or Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 For Redundant CPU, serial communication modules on the main base cannot be accessed.
*6 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5002 for MELSOFT connection Any port number for OPS connection*1			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*2	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Target station side module network number	Target station side module network number	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActPassword	Null	Password set to Q series-compatible E71 on the connected station side			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActSourceNetworkNumber	0(0x00)	Personal computer side network number			
ActSourceStationNumber*5	0(0x00)	Personal computer side station number			
ActStationNumber*4	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71E71(0x1A)			

*1 When using the OPS connection function for Redundant CPU, specify any port number that was set to the network parameter of the CPU. (The setting range is 1025 ≤ port number ≤ 4999 or 5003 ≤ port number ≤ 65534)

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

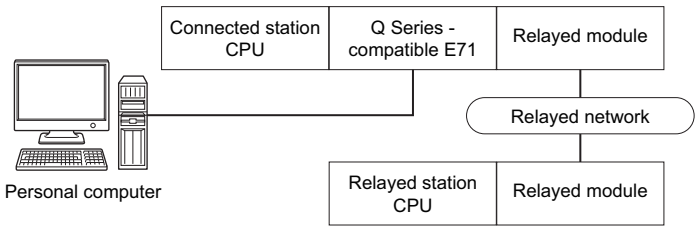
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*5 Specify the station number on the personal computer side to avoid the same station number set for Q series-compatible E71 within the same Ethernet loop.

Ethernet communication when the connected station is Q series-compatible E71 (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU				Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU	QSCPU	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*6*7	○(1)*2	○(1)*1*2	CC IE TSN	×	×	×	×	×
				CC IE Control CC IE Field	×	×	×	×	×
				MELSECNET/H	×	×	×	×	×
				Ethernet	×	×	×	×	×
				Serial communication	×	×	×	×	×
				CC-Link	×	×	×	×	×

Connected station CPU				Relayed network	Relayed station CPU					
QCPU (Q mode)	QCCPU	QSCPU	Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*6*7	○(1)*2	○(1)*1*2	CC IE TSN	×	×	×	×	×	×
				CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	○(2)*2*3	○(2)*3	×
				MELSECNET/H	○(2)	○(2)	×	○(2)*2	○(2)	×
				Ethernet	○(2)	×	×	○(2)*2	○(2)	×
				Serial communication	○(3)*5	×	○(3)	×	○(3)	×
				CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Relayed stations cannot be accessed when the Q motion CPU is Q172CPU, Q173CPU, Q172HCPU, or Q173HCPU.
*2 Relayed stations cannot be accessed via QSCPU or Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 For Redundant CPU, serial communication modules on the main base cannot be accessed.
*6 Only CPU No.2 or later in a multiple CPU configuration can be accessed.
*7 Since QCCPU is not supported by MELSOFT direct connection, Ethernet port direct connection is not applicable.

Property list

The following table shows the property settings of communication paths.

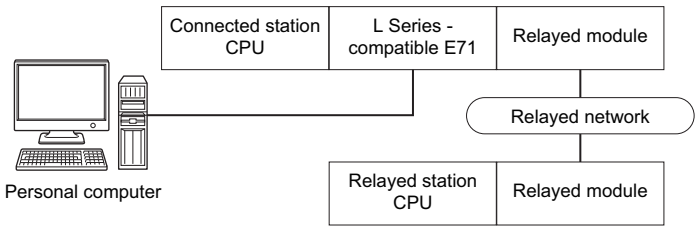
The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5001			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Target station side module network number	Target station side module network number	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActPassword	Null	Password set to Q series-compatible E71 on the connected station side			
ActPortNumber*4	1(PORT_1)	Personal computer side port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)			
ActSourceNetworkNumber	0(0x00)	Personal computer side network number			
ActSourceStationNumber*5	0(0x00)	Personal computer side station number			
ActStationNumber*3	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71E71(0x1A)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2
*3 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.
*4 Do not use 1 to 1024 of ActPortNumber.
*5 Specify the station number on the personal computer side to avoid the same station number set for Q series-compatible E71 within the same Ethernet loop.

Ethernet communication when the connected station is L series-compatible E71 (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU*1	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	○(2)*2, *3	○(2)*3	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	○(2)	×	○(2)	○(2)*2	○(2)	×
	Serial communication	○(3)*5	×	○(3)*5	×	○(3)*5	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Only Q172D, Q173D, Q172DS and Q173DS can be accessed.
*2 Relayed stations cannot be accessed via QSCPU.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5002 for MELSOFT connection Any port number for OPS connection*1			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*2	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Target station side module network number	Target station side module network number	Connected station side L series-compatible E71 network number	Connected station side L series-compatible E71 network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPassword	Null	Password set to L series-compatible E71 on the connected station side			
ActPortNumber	1(PORT_1)	Personal computer side port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActSourceNetworkNumber	0(0x00)	Personal computer side network number			
ActSourceStationNumber*5	0(0x00)	Personal computer side station number			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActStationNumber*4	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side L series-compatible E71 station number	Connected station side L series-compatible E71 station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71E71(0x5C)			

*1 When using the OPS connection function for Redundant CPU, specify any port number that was set to the network parameter of the CPU. (The setting range is 1025 ≤ port number ≤ 4999 or 5003 ≤ port number ≤ 65534)

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

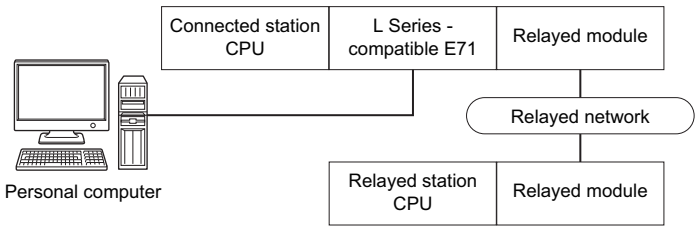
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*5 Specify the station number on the personal computer side to avoid the same station number set for L series-compatible E71 within the same Ethernet loop.

Ethernet communication when the connected station is L series-compatible E71 (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU*1	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	○(2)*3*4	○(2)*2	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	○(2)	×	○(2)	○(2)*4	○(2)	×
	Serial communication	○(3)*5	×	○(3)*5	×	○(3)*5	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Only Q172D, Q173D, Q172DS and Q173DS can be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 Relayed stations cannot be accessed via QSCPU.

*5 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5001			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber[*1]	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber[*3]	0(0x00)	Target station side module network number	Target station side module network number	Connected station side L series-compatible E71 network number	Connected station side L series-compatible E71 network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPassword	Null	Password set to L series-compatible E71 on the connected station side			
ActPortNumber[*4]	1(PORT_1)	Personal computer side port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)			
ActSourceNetworkNumber	0(0x00)	Personal computer side network number			
ActSourceStationNumber[*5]	0(0x00)	Personal computer side station number			
ActStationNumber[*3]	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side L series-compatible E71 station number	Connected station side L series-compatible E71 station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71E71(0x5C)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

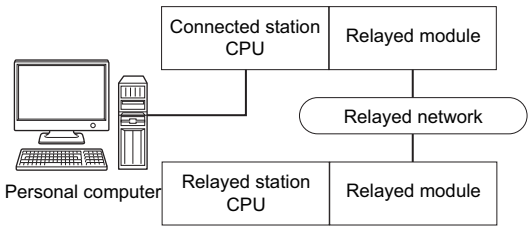
*3 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*4 Do not use 1 to 1024 of ActPortNumber.

*5 Specify the station number on the personal computer side to avoid the same station number set for L series-compatible E71 within the same Ethernet loop.

Ethernet communication when the connected station is RCPU (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU			Relayed network	Relayed station CPU				
RCPU	RCCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*3	○(1)*1*3	CC IE TSN	○(2)	×	×	×	×
			CC IE Control CC IE Field	○(2)*2	○(2)	×	×	○(2)*5
			MELSECNET/H	×	×	×	×	×
			Ethernet	○(2)*4	×	○(2)*4	×	×
			Serial communication	○(3)*4	×	○(3)*4	×	×
			CC-Link	○(4)	○(4)	○(4)	×	○(4)

Connected station CPU			Relayed network	Relayed station CPU					
RCPU	RCCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*3	○(1)*1*3	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	○(2)*4	×	○(2)*2*4	×	×	×
			MELSECNET/H	○(2)*4	×	×	×	×	×
			Ethernet	○(2)*4	×	○(2)	×	×	×
			Serial communication	○(3)*4	×	○(3)*4	×	×	×
			CC-Link	○(4)*4	×	○(4)*4	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.
*4 RCCPU cannot be accessed because the communication route is not supported.
*5 Only CC-Link IE Field Network of which connected station is RCPU and relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActPortNumber	1(PORT_1)	0(0x00)			
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)			
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)			
ActDataBits	8(DATABIT_8)	0(0x00)			
ActParity	1(ODD_PARITY)	0(0x00)			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5007			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station RCPU, R motion CPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station RCPU, R motion CPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPassword	Null	Password set to the connected station side			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			MELSECNET/10 is not included.: 0 (0x00)

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RETHER(0x1002)			

*1 Note the following considerations when accessing via Ethernet module (Q series-compatible E71 or R series-compatible E71).
·For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71 or R series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of Q series-compatible E71 or R series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

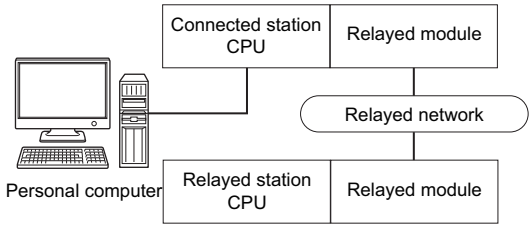
*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 When the property pattern is ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is RCPU (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU			Relayed network	Relayed station CPU				
RCPU	RCCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*3	○(1)*1*3	CC IE TSN	○(2)	×	×	×	×
			CC IE Control CC IE Field	○(2)*2	○(2)	×	×	○(2)*5
			MELSECNET/H	×	×	×	×	×
			Ethernet	○(2)*4	×	○(2)*4	×	×
			Serial communication	○(3)*4	×	○(3)*4	×	×
			CC-Link	○(4)	○(4)	○(4)	×	○(4)

Connected station CPU			Relayed network	Relayed station CPU					
RCPU	RCCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*3	○(1)*1*3	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	○(2)*4	×	○(2)*2*4	×	×	×
			MELSECNET/H	○(2)*4	×	×	×	×	×
			Ethernet	○(2)*4	×	○(2)*4	×	×	×
			Serial communication	○(3)*4	×	○(3)*4	×	×	×
			CC-Link	○(4)*4	×	○(4)*4	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.
*4 RCCPU cannot be accessed because the communication route is not supported.
*5 Only CC-Link IE Field Network of which connected station is RCPU and relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActPortNumber	1(PORT_1)	0(0x00)			
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)			
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)			
ActDataBits	8(DATABIT_8)	0(0x00)			
ActParity	1(ODD_PARITY)	0(0x00)			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station RCPU, R motion CPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station RCPU, R motion CPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActHostAddress	1.1.1.1	For communication with IP address specified: Host name or IP address of the connected station side For direst communication without IP address specified: 255.255.255.255			
ActDestinationPortNumber	0(0x00)	For communication with IP address specified: 5006 For direct communication without IP address specified: 5008			
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActPassword	Null	Password set to the connected station side			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)			

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			MELSECNET/10 is not included.: 0 (0x00)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	For communication with IP address specified: UNIT_RETHER(0x1002) For direst communication without IP address specified: UNIT_RETHER_DIRECT(0x1003)			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side R series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of R series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

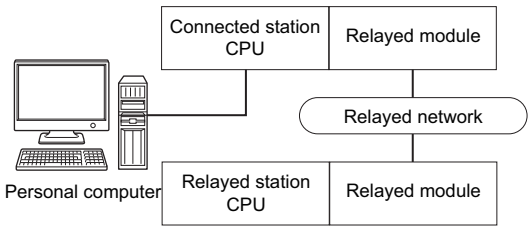
*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 When the property pattern is ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is LHCPU (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LHCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LHCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Property list

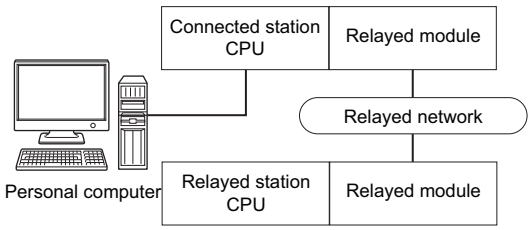
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActPortNumber	1(PORT_1)	0(0x00)
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)
ActDataBits	8(DATABIT_8)	0(0x00)
ActParity	1(ODD_PARITY)	0(0x00)
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	5007
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)
ActIONumber	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF)
ActMultiDropChannelNumber	0(0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1
ActPassword	Null	Remote password set to the connected station
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LHETHER(0x1002)

Ethernet communication when the connected station is LHCPU (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LHCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LHCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Property list

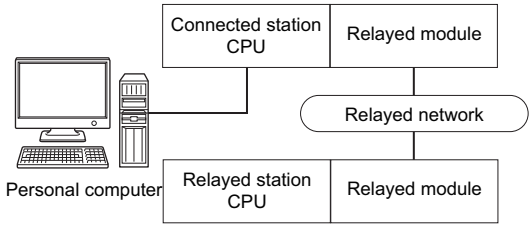
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActPortNumber	1(PORT_1)	0(0x00)
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)
ActDataBits	8(DATABIT_8)	0(0x00)
ActParity	1(ODD_PARITY)	0(0x00)
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	For communication with IP address specified: 5006 For direct communication without IP address specified: 5008
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	For communication with IP address specified: Host name or IP address of the connected station side module For direct communication without IP address specified: 255.255.255.255
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)
ActIONumber	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF)
ActMultiDropChannelNumber	0(0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1
ActPassword	Null	Remote password set to the connected station
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	For communication with IP address specified: UNIT_LHETHER(0x1002) For direst communication without IP address specified: UNIT_LHETHER_DIRECT(0x1003)

Ethernet communication when the connected station is FX5CPU (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

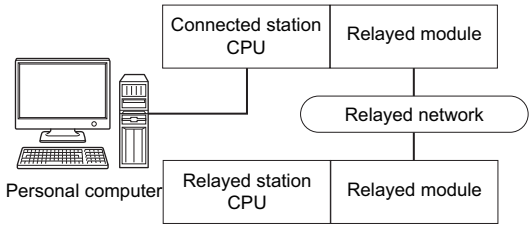
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)		
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDataBits	8(DATABIT_8)	0(0x00)		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDestinationPortNumber	0(0x00)	5562		
ActDidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActDsidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module		
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1		
ActPassword	Null	Remote password set to the connected station		
ActPortNumber	1(PORT_1)	0(0x00)		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActStopBits	0(STOPBIT_ONE)	0(0x00)		
ActSumCheck	0(NO_SUM_CHECK)	0(0x00)		
ActThroughNetworkType	0(0x00)	1(0x01)	0(0x00)	
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXVETHER(0x2001)		

Ethernet communication when the connected station is FX5CPU (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

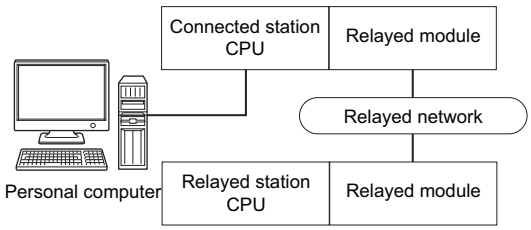
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)		
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDataBits	8(DATABIT_8)	0(0x00)		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDestinationPortNumber	0(0x00)	5560		
ActDidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActDsidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActHostAddress	1.1.1.1	255.255.255.255 To select an adapter of the PLC side, assign a tab and the IP address of the personal computer-side after the IP address of the connection target.		
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1		
ActPassword	Null	Remote password set to the connected station		
ActPortNumber	1(PORT_1)	0(0x00)		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActStopBits	0(STOPBIT_ONE)	0(0x00)		
ActSumCheck	0(NO_SUM_CHECK)	0(0x00)		
ActThroughNetworkType	0(0x00)	1(0x01)	0(0x00)	
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXVETHER_DIRECT(0x2002)		

Ethernet communication when the connected station is built-in Ethernet port QCPU (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU*4	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	○(2)*1	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	○(2)	×	×	○(2)	○(2)	×
	Serial communication	○(3)*3	×	○(3)	×	○(3)	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU*4	LHCPU	FX5CPU
○(1)*4*5*6	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*4*5*6	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	○(2)*1	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Connected station CPU	Relayed network	Relayed station CPU				
Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*7	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*7	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*4 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

*5 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

*6 Since QCCPU is not supported by MELSOFT direct connection, Ethernet port direct connection is not applicable.

*7 For Q172D, Q173D, Q172DS, and Q173DS, only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5007			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPassword	Null	Remote password set to the connected station			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber*3	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QNETHER(0x2C)			

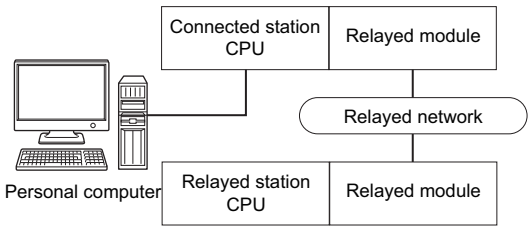
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is built-in Ethernet port QCPU (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU*4	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	○(2)*1	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	○(2)	×	×	○(2)	○(2)	×
	Serial communication	○(3)*3	×	○(3)	×	○(3)	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU*4	LHCPU	FX5CPU
○(1)*4*5*6	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*4*5*6	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	○(2)*1	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Connected station CPU	Relayed network	Relayed station CPU				
Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*7	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*7	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*4 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

*5 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

*6 Since QCCPU is not supported by MELSOFT direct connection, Ethernet port direct connection is not applicable.

*7 For Q172D, Q173D, Q172DS, and Q173DS, only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	For communication with IP address specified: 5006 For direct communication without IP address specified: Unused			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	For communication with specified IP address: Host name or IP address of the connected station side module For direct communication without specified IP address: The specification is invalid.			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPassword	Null	Remote password set to the connected station			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)			
ActStationNumber*3	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActUnitType	0x13(UNIT_QNCPU)	For communication with specified IP address: UNIT_QNETHER (0x2C) For direct communication without specified IP address: UNIT_QNETHER_DIRECT (0x2D)			

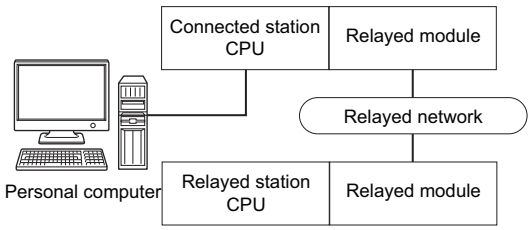
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is built-in Ethernet port LCPU (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*1	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*1	○(4)	○(4)*2	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)*3	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	5007			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPassword	Null	Password set to the connected station side			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber*3	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LNETHER(0x52)			

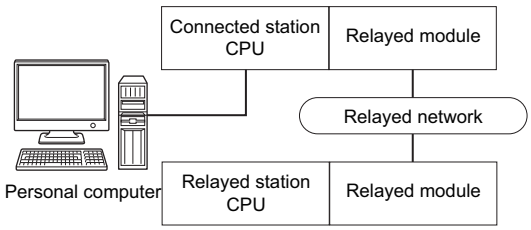
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is built-in Ethernet port LCPU (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*1	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*1	○(4)	○(4)*2	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)*3	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	For communication with IP address specified: 5006 For direct communication without IP address specified: 5008			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	For communication with specified IP address: Host name or IP address of the connected station side module For direct communication without IP address specified: 255.255.255.255			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber[*1]	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber[*3]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPassword	Null	Remote password set to the connected station			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)			
ActStationNumber*3	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	For communication with specified IP address: UNIT_LNETHER(0x52) For direct communication without specified IP address: UNIT_LNETHER_DIRECT(0x53)			

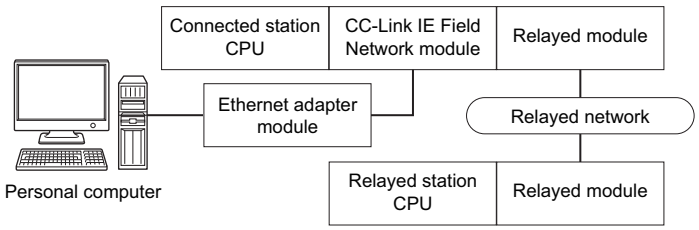
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is Ethernet adapter module (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(2)	○(2)*1	○(2)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the Ethernet adapter module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber[*1]	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber[*3]	0(0x00)	Connected station side CC-Link IE Field Network module station number	Target station side module network number	Connected station side CC-Link IE Field Network module station number	Connected station side CC-Link IE Field Network module station number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber[*3]	255(0xFF)	Connected station side CC-Link IE Field Network module station number	Target station side module station number	Connected station side CC-Link IE Field Network module station number	Connected station side CC-Link IE Field Network module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_NZ2GF_ETB(0x59)			

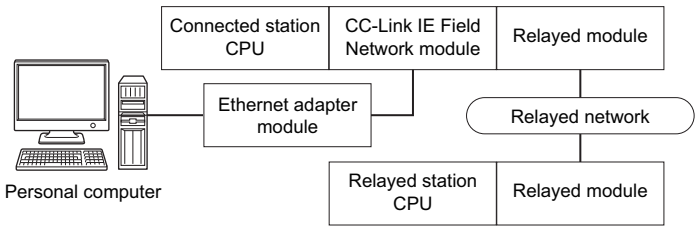
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When the property pattern is ○(1), ○(3), or ○(4), specify the parameter value set for the CC-Link IE Field Network module on the connected station side for ActNetworkNumber and ActStationNumber.
When the property pattern is ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is Ethernet adapter module (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(2)	○(2)*1	○(2)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	For communication with specified IP address: Host name or IP address of the Ethernet adapter module For direct communication without specified IP address: The specification is invalid.			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber[*1]	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber[*3]	0(0x00)	Connected station side CC-Link IE Field Network module station number	Target station side module network number	Connected station side CC-Link IE Field Network module station number	Connected station side CC-Link IE Field Network module station number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)			
ActStationNumber[*3]	255(0xFF)	Connected station side CC-Link IE Field Network module station number	Target station side module station number	Connected station side CC-Link IE Field Network module station number	Connected station side CC-Link IE Field Network module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	For communication with specified IP address: UNIT_NZ2GF_ETB (0x59) For direct communication without specified IP address: UNIT_NZ2GF_ETB_DIRECT (0x5A)			

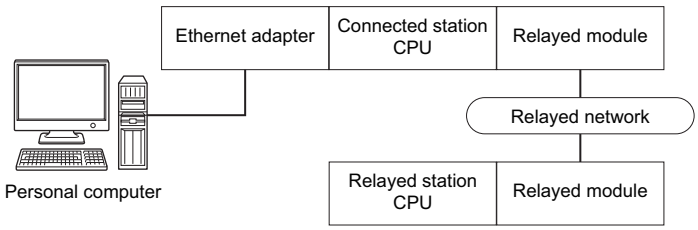
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When the property pattern is ○(1), ○(3), or ○(4), specify the parameter value set for the CC-Link IE Field Network module on the connected station side for ActNetworkNumber and ActStationNumber.
When the property pattern is ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Ethernet communication when the connected station is Ethernet adapter (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only FX3SCPU, FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

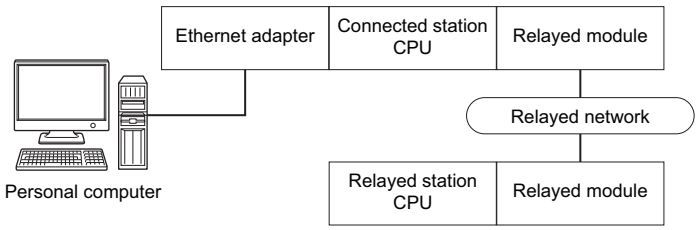
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXETHER

Ethernet communication when the connected station is Ethernet adapter (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only FX3SCPU, FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

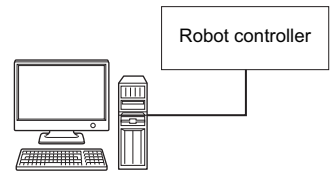
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXETHER_DIRECT

Ethernet communication when the connected station is robot controller

Configuration



Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActProtocolType	0x04(PROTOCOL_SERIAL)	RC_PROTOCOL_TCPIP(0x02)
ActCpuType	34(CPU_Q02CPU)	Robot controller type (0x013001)
ActPortNumber	1(PORT_1)	Port number to be connected (specify 10001 normally)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side robot controller
ActTimeOut	10000	Any value specified by user in ms units
ActCpuTimeOut	0(0x00)	Any value specified by user in 10ms units
ActMultiDropChannelNumber	8(TRC_DTR_OR_RTS)	Retry count
ActMxUnitSeries	0(0x00)	2(0x02)

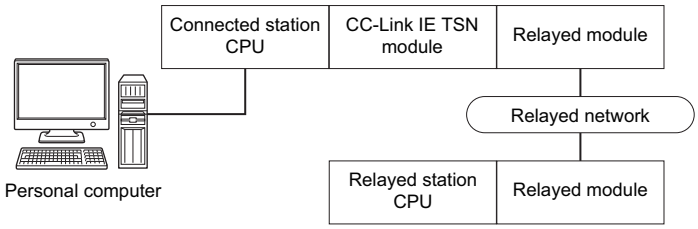
Point

When robot controller communication, the program setting type control cannot be used.

Use the utility setting type control.

Ethernet communication when the connected station is CC-Link IE TSN module (TCP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
RCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	○(2)	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	○(3)	×	×	×	×
	CC-Link	○(4)	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
RCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*6	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDestinationPortNumber	0(0x00)	5002			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*6	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*5	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*1*7	0(0x00)	Target station side module network number	Target station side module network number	Connected station side CC-Link IE TSN module network number	Connected station side CC-Link IE TSN module network number
ActPassword	Null	Password set to CC-Link IE TSN module on the connected station side			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActPortNumber*2	1(PORT_1)	Personal computer side port number			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActSourceNetworkNumber*3	0(0x00)	Personal computer side network number			
ActSourceStationNumber*4	0(0x00)	Personal computer side station number			
ActStationNumber*1*7	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side CC-Link IE TSN module station number	Connected station side CC-Link IE TSN module station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71GN11(0x1006)			

*1 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*2 Specify the following value.
0: An empty slot number in a personal computer is automatically assigned.

*3 Specify the same network No. as MELSECNET/10 network No. set to CC-Link IE TSN module in the Ethernet parameter settings of target station side CC-Link IE TSN module.

*4 Specify the station number on the personal computer side to avoid the same station number set for CC-Link IE TSN module within the same Ethernet loop.

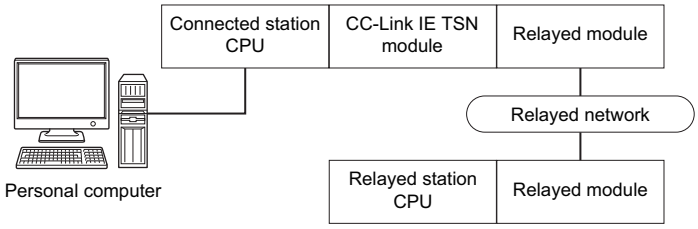
*5 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*6 When the target station is a motion controller or a robot controller, set the value for multiple CPUs.
Example: When a robot controller is set as the CPU No.2, specify '0x3E1'.

*7 Note the following considerations when accessing via CC-Link IE TSN module.
·For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side CC-Link IE TSN module.
· Set "Station No. ⇔ IP information" in the parameter setting of CC-Link IE TSN module. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

Ethernet communication when the connected station is CC-Link IE TSN module (UDP)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
RCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	○(2)	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	○(3)	×	×	×	×
	CC-Link	○(4)	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
RCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Access to a CC-Link IE TSN module with a direct connection is not supported.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*6	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDestinationPortNumber	0(0x00)	5001			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*6	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*5	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*1*7	0(0x00)	Target station side module network number	Target station side module network number	Connected station side CC-Link IE TSN module network number	Connected station side CC-Link IE TSN module network number
ActPassword	Null	Password set to CC-Link IE TSN module on the connected station side			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActPortNumber*2	1(PORT_1)	For communication with IP address specified: Personal computer side COM port number			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActSourceNetworkNumber*3	0(0x00)	Personal computer side network number			
ActSourceStationNumber*4	0(0x00)	Personal computer side station number			
ActStationNumber*1*7	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side CC-Link IE TSN module station number	Connected station side CC-Link IE TSN module station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71GN11(0x1006)			

*1 When the property pattern is ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*2 When other than the 'automatic response system' is set in the Ethernet parameter of the connected station side CC-Link IE TSN module, fix the value to '5001'.
When the 'automatic response system' is set in the Ethernet parameter of the connected station side CC-Link IE TSN module, specify the following value.
0: An empty slot number in a personal computer is automatically assigned.
Other than '0': a UDP socket is generated with the specified port number.

*3 Specify the same network No. as MELSECNET/10 network No. set to CC-Link IE TSN module in the Ethernet parameter settings of target station side CC-Link IE TSN module.

*4 Specify the station number on the personal computer side to avoid the same station number set for CC-Link IE TSN module within the same Ethernet loop.

*5 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

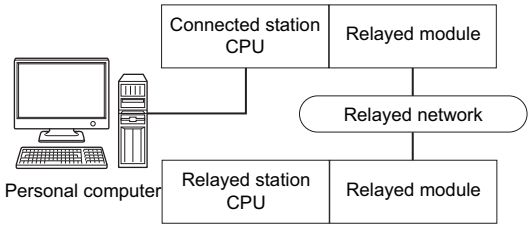
*6 When the target station is a motion controller or a robot controller, set the value for multiple CPUs.
Example: When a robot controller is set as the CPU No.2, specify '0x3E1'.

*7 Note the following considerations when accessing via CC-Link IE TSN module.
·For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side CC-Link IE TSN module.
· Set "Station No. ⇔ IP information" in the parameter setting of CC-Link IE TSN module. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

4.3 COM Communication

CPU COM communication when the connected station is FX5CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

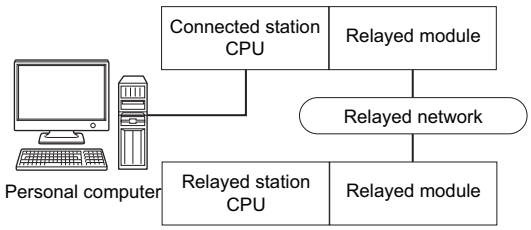
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200		
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDid PropertyBit	1(0x01)	0(0x00)	1(0x01)	0(0x00)
ActDsid PropertyBit	1(0x01)	0(0x00)	1(0x01)	0(0x00)
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPort Number	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActHostAddress	1.1.1.1	NULL		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXVCPU(0x2000)		

CPU COM communication when the connected station is QCPU (Q mode)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*4	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*4	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	○(2)*1	×
		MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
		Ethernet	○(2)	×	×	○(2)	○(2)	×
		Serial communication	×	×	○(3)	×	○(3)	×
		CC-Link	○(4)	○(4)	○(4)	×	○(4)	○(4)*3

*1 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Supported by FX3G(C)CPU and FX3U(C)CPU within the own network only.
*4 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*2	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QNCPU(0x13)			

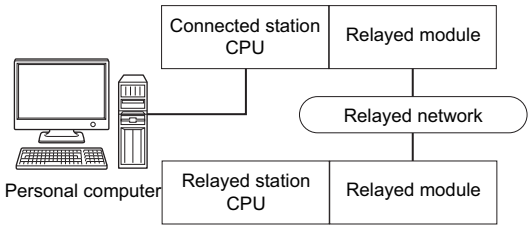
*1 Note the following considerations when accessing via Ethernet module (Q series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of Q series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

CPU COM communication when the connected station is LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*1	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*1	○(4)	○(4)*2	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)*3	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber[*1]	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)			
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LNCPU(0x50)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

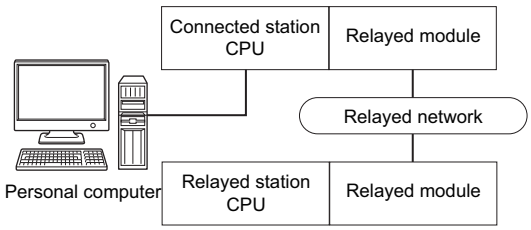
0: Default channel of module

1: Channel 1

2: Channel 2

CPU COM communication when the connected station is Q motion CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Relayed stations cannot be accessed when the Q motion CPU is Q172CPU, Q173CPU, Q172HCPU, or Q173HCPU.

Property list

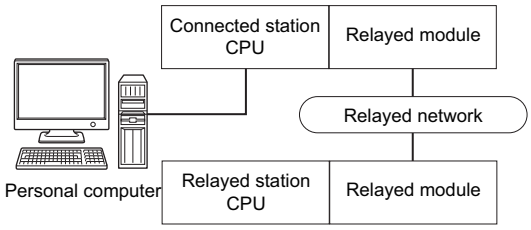
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActIONumber	1023(0x3FF)	For multiple CPUs Control CPU: 1023 (0x3FF) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActPortNumber	1(PORT_1)	Personal computer side COM port number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QNMOTION(0x1C)

CPU COM communication when the connected station is FXCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	○(2)*1

*1 Only FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

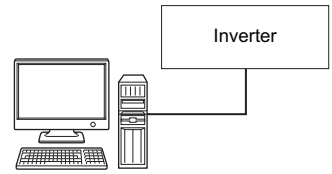
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActBaudRate	19200(BAUDRATE_19200)	FX0(S), FX0N, FX1, FX1S, FX2(C) (Fixed to BAUDRATE_9600)	
		FX1N(C), FX2N(C)(BAUDRATE_9600, BAUDRATE_19200)	
		FX3S, FX3UC, FX3G(C)(BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200)	
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	0(0x00)	
ActDsidPropertyBit	1(0x01)	0(0x00)	
ActIONumber	1023(0x3FF)	Fixed to 0 (0x00)	Module number of the connected station
ActPortNumber	1(PORT_1)	Personal computer side COM port number	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXCPU(0x0F)	

COM communication when the connected station is inverter

Configuration



Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActMxUnitSeries	0(0x00)	1(0x01)
ActProtocolType	0x04(PROTOCOL_SERIAL)	COMM_RS232C(0x00)
ActStationNumber	255(0xFF)	Inverter station number (0 to 31)
ActCpuType	34(CPU_Q02CPU)	Fixed to INV_A800 (0x1E60)
ActPortNumber	1(PORT_1)	Personal computer side COM port number
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_4800, BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200
ActTimeOut	10000	Any value specified by user in ms units
ActCpuTimeOut	0(0x00)	Any value specified by user in 10ms units
ActPacketType	1(CRLF_CR)	CRLF_NONE, CRLF_CR, CRLF_CRLF
ActDataBits	8(DATABIT_8)	DATABIT_7, DATABIT_8
ActParity	1(ODD_PARITY)	NO_PARRITY, ODD_PARITY, EVEN_PARITY
ActStopBits	0(STOPBIT_ONE)	STOPBIT_ONE, STOPBIT_TWO

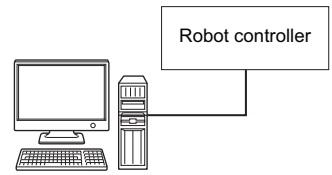
Point

When performing inverter communication, the program setting type control cannot be used.

Use the utility setting type control.

COM communication when the connected station is robot controller

Configuration



Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActProtocolType	0x04(PROTOCOL_SERIAL)	RC_PROTOCOL_SERIAL(0x01)
ActCpuType	34(CPU_Q02CPU)	Robot controller type (0x013001)
ActPortNumber	1(PORT_1)	Personal computer side COM port number
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_4800, BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200
ActTimeOut	10000	Any value specified by user in ms units
ActCpuTimeOut	0(0x00)	Any value specified by user in 10ms units
ActDataBits	8(DATABIT_8)	DATABIT_7, DATABIT_8
ActParity	1(ODD_PARITY)	NO_PARRITY, ODD_PARITY, EVEN_PARITY
ActStopBits	0(ONESTOPBIT)	ONESTOPBIT, ONE5STOPBITS, TWOSTOPBITS
ActMultiDropChannelNumber	0(0x00)	Retry count
ActThroughNetworkType	0(0x00)	Procedural/Nonprocedural (0/1)
ActMxUnitSeries	0(0x00)	2(0x02)

Point

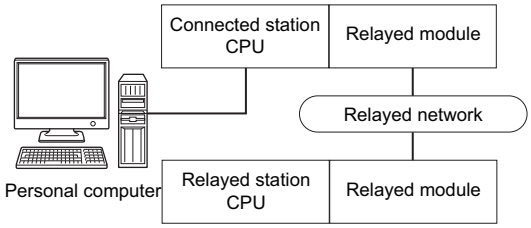
When robot controller communication, the program setting type control cannot be used.

Use the utility setting type control.

4.4 USB Communication

USB communication when the connected station is RCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
RCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	○(2)	×	×	×	×
	CC IE Control CC IE Field	○(2)*1	○(2)	×	×	○(2)*2
	MELSECNET/H	×	×	×	×	×
	Ethernet	○(2)	×	○(2)	×	×
	Serial communication	○(3)	×	○(3)	×	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)

Connected station CPU	Relayed network	Relayed station CPU					
RCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	×	○(2)*1	×	×	×
	MELSECNET/H	○(2)	×	×	×	×	×
	Ethernet	○(2)	×	○(2)	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	×	○(4)	×	×	×

*1 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*2 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station RCPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station RCPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)			
ActPortNumber	1(PORT_1)	Fixed to 1 (PORT_1)			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActHostAddress	1.1.1.1	Fixed to NULL			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)			
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)			
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)			
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			MELSECNET/10 is not included.: 0 (0x00)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RUSB			

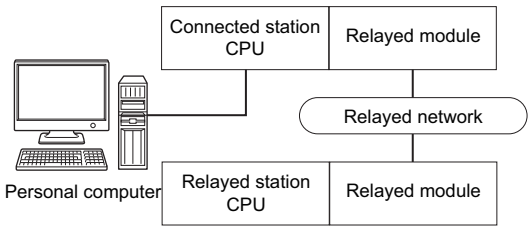
*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side R series compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of R series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

USB communication when the connected station is R motion CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1*2	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1*2	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

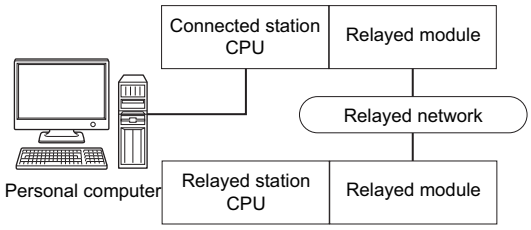
Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
Act Destination IONumber*1	0(0x00)	Fixed to 0 (0x00)
ActDid PropertyBit	1(0x01)	Fixed to 1 (0x01)
ActDsid PropertyBit	1(0x01)	Fixed to 1 (0x01)
Act Intelligent Preference Bit	0(0x00)	Fixed to 0 (0x00)
Act IONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDrop Channel Number*2	0(0x00)	Fixed to 0 (0x00)
ActNetwork Number	0(0x00)	Fixed to 0 (0x00)
ActProtocol Type	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB
ActStation Number	255(0xFF)	Fixed to 255 (0xFF)
ActThrough NetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)
ActTimeOut	10000	Any value specified by user in ms units
ActUnit Number	0(0x00)	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RUSB

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

USB communication when the connected station is LHCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LHCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LHCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Property list

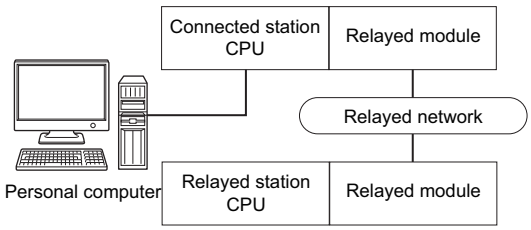
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)
ActIONumber	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF)
ActMultiDropChannelNumber	0(0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Fixed to 1 (PORT_1)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Fixed to NULL
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LHUSB

USB communication when the connected station is QCPU (Q mode)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QCPU (Q mode)		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCPU (Q mode)		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	○(2)*1	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	○(2)	×	×	○(2)	○(2)	×
	Serial communication	○(3)*3	×	○(3)	×	○(3)	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	○(4)*4

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	○(2)*1	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*4 Supported by FX3G(C)CPU and FX3U(C)CPU within the own network only.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*2	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber *3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB(0x0D)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QNUSB(0x16)			

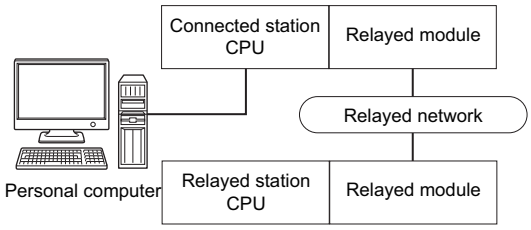
*1 Note the following considerations when accessing via Ethernet module (Q series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of Q series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

USB communication when the connected station is LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*1	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*1	○(4)	○(4)*2	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)*3	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB(0x0D)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LNUSB(0x51)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

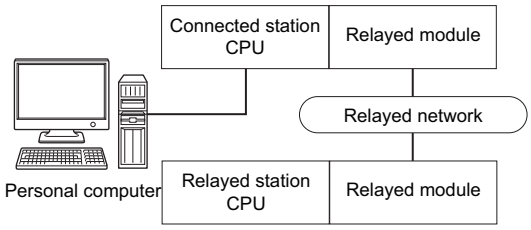
0: Default channel of module

1: Channel 1

2: Channel 2

USB communication when the connected station is QSCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QSCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QSCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Relayed stations cannot be accessed via QSCPU.

Property list

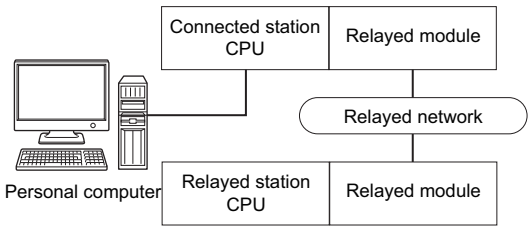
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB(0x0D)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QSUSB(0x29)

USB communication when the connected station is Q motion CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Relayed stations cannot be accessed when the Q motion CPU is Q172CPU, Q173CPU, Q172HCPU, or Q173HCPU.

Property list

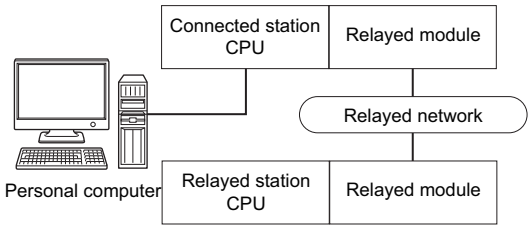
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActIONumber	1023(0x3FF)	Target station side For multiple CPUs Control CPU: 1023 (0x3FF) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB(0x0D)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QNMOTIONUSB(0x1D)

USB communication when the connected station is FXCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	○(2)*1

*1 Only FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

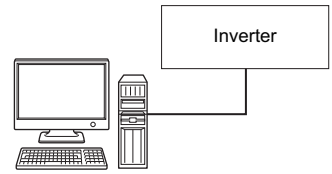
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 1023 (0x3FF)
ActIONumber	1023(0x3FF)	Fixed to 0 (0x00)	Module number of the connected station
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USB(0x0D)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXCPU(0x0F)	

USB communication when the connected station is inverter

Configuration



Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActMxUnitSeries	0(0x00)	1(0x01)
ActProtocolType	0x04(PROTOCOL_SERIAL)	COMM_USB(0x01)
ActStationNumber	255(0xFF)	Inverter station number (0 to 31)
ActCpuType	34(CPU_Q02CPU)	Fixed to INV_A800 (0x1E60)
ActTimeOut	10000	Any value specified by user in ms units
ActCpuTimeOut	0(0x00)	Any value specified by user in 10ms units

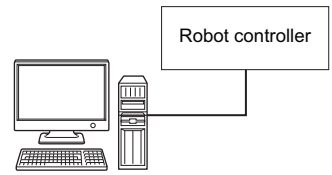
Point

When performing inverter communication, the program setting type control cannot be used.

Use the utility setting type control.

USB communication when the connected station is robot controller

Configuration



Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActProtocolType	0x04(PROTOCOL_SERIAL)	RC_PROTOCOL_USB(0x04)
ActCpuType	34(CPU_Q02CPU)	Robot controller type (0x013001)
ActTimeOut	10000	Any value specified by user in ms units
ActCpuTimeOut	0(0x00)	Any value specified by user in 10ms units
ActMultiDropChannelNumber	0(0x00)	Retry count
ActMxUnitSeries	0(0x00)	2(0x02)

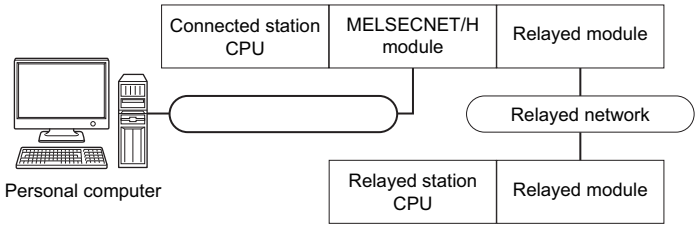
Point

When robot controller communication, the program setting type control cannot be used.

Use the utility setting type control.

4.5 MELSECNET/H Communication

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU			Relayed network	Relayed station CPU				
	QCPU (Q mode)	QSCPU	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)	○(2)*1	○(2)*1*5	CC IE TSN	×	×	×	×	×
				CC IE Control CC IE Field	×	×	×	×	×
				MELSECNET/H	×	×	×	×	×
				Ethernet	×	×	×	×	×
				Serial communication	×	×	×	×	×
				CC-Link	×	×	×	×	×

Own board	Connected station CPU			Relayed network	Relayed station CPU					
	QCPU (Q mode)	QSCPU	Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)	○(2)*1	○(2)*1*5	CC IE TSN	×	×	×	×	×	×
				CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	○(2)*1*2	×	×
				MELSECNET/H	○(2)	○(2)	×	○(2)*1	×	×
				Ethernet	○(2)	×	×	○(2)*1	×	×
				Serial communication	○(3)*4	×	○(3)	×	○(3)	×
				CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)*6	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)*6	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Relayed stations cannot be accessed via QSCPU and Q motion CPU.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) and QSCPU relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

*6 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1(PORT_1)	Port number of personal computer side MELSECNET/H board, PORT 1 to PORT 4 (first to fourth boards)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_MNETH(0x0F)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Connected station side module station number	Connected station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_MNETHBOARD(0x1E)			

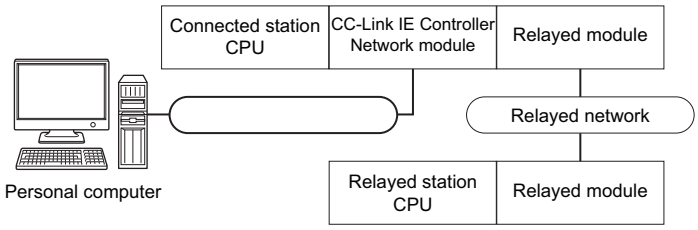
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

4.6 CC-Link IE Controller Network Communication

CC-Link IE Controller Network communication when the connected station is an RCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	RCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
×	○(2)	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	○(3)*1	×	×	×	×
		CC-Link	○(4)	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	RCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU*2	FXCPU
×	○(2)	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○(3)*1	×	○(3)*1	×	×	×
		CC-Link	○(4)	×	○(4)	×	×	×

*1 For Redundant CPU, serial communication modules on the main base cannot be accessed because the multi-drop connection cannot be performed.

*2 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

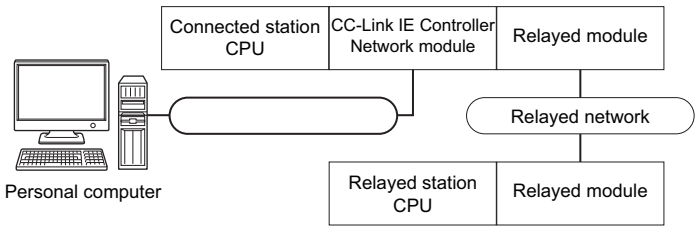
Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 0 (0x00)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1(PORT_1)	Port number of personal computer side CC-Link IE Controller Network board, PORT 1 to PORT 4 (first to fourth boards)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_MNETG(0x14)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Connected station side module station number	Connected station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_MNETGBOARD(0x2B)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

CC-Link IE Controller Network communication when the connected station is a module supporting Q series

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU			Relayed network	Relayed station CPU				
	QCPU (Q mode)	QSCPU	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)	○(2)*1	○(2)*1*5	CC IE TSN	×	×	×	×	×
				CC IE Control CC IE Field	×	×	×	×	×
				MELSECNET/H	×	×	×	×	×
				Ethernet	×	×	×	×	×
				Serial communication	×	×	×	×	×
				CC-Link	×	×	×	×	×

Own board	Connected station CPU			Relayed network	Relayed station CPU					
	QCPU (Q mode)	QSCPU	Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)	○(2)*1	○(2)*1*5	CC IE TSN	×	×	×	×	×	×
				CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	○(2)*1*2	×	×
				MELSECNET/H	○(2)	○(2)	×	○(2)*1	×	×
				Ethernet	○(2)	×	×	○(2)*1	×	×
				Serial communication	○(3)*4	×	○(3)	×	○(3)	×
				CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)*6	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)*6	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Relayed stations cannot be accessed via QSCPU and Q motion CPU.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) and QSCPU relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

*6 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 0 (0x00)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1(PORT_1)	Port number of personal computer side CC-Link IE Controller Network board, PORT 1 to PORT 4 (first to fourth boards)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_MNETG(0x14)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Connected station side module station number	Connected station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_MNETGBOARD(0x2B)			

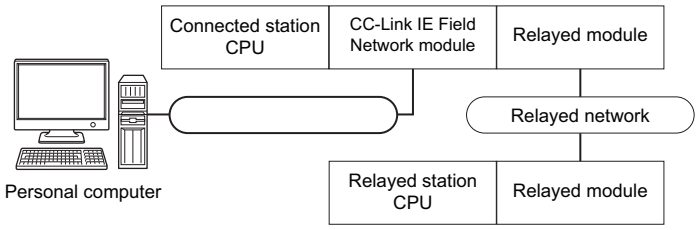
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

4.7 CC-Link IE Field Network Communication

CC-Link IE Field Network communication when the connected station is an RCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	RCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
×	○(1)	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	○(2)*1	×	×	×	×
		CC-Link	○(3)	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	RCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
×	○(1)	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○(2)*1	×	○(2)*1	×	×	×
		CC-Link	○(3)	×	○(3)	×	×	×

*1 For Redundant CPU, serial communication modules on the main base cannot be accessed because the multi-drop connection cannot be performed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

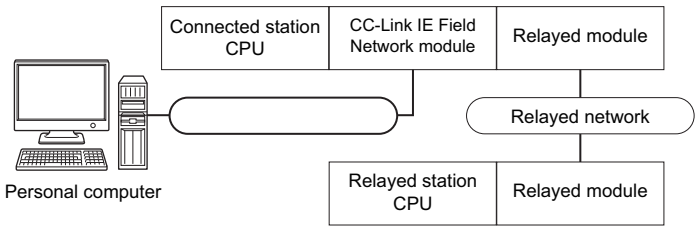
Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)
ActDid PropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsid PropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1(PORT_1)	Port number of personal computer side CC-Link IE Field Network board, PORT 1 to PORT 4 (first to fourth boards)		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_CCIEF(0x15)		
ActStation Number	255(0xFF)	Target station side module station number	Connected station side module station number	Connected station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)		
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_CCIEFBOARD(0x2F)		

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

CC-Link IE Field Network communication when the connected station is a module supporting QCPU (Q mode) or LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	QCPU (Q mode)		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	QCPU (Q mode)		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	×	×	×
		MELSECNET/H	○(2)	○(2)	×	×	×	×
		Ethernet	○(2)	×	×	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)	CC IE TSN	×	×	×	×	×
		CC IE Field*2	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)	CC IE TSN	×	×	×	×	×	×
		CC IE Field*2	○(2)	×	○(2)	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1(PORT_1)	Port number of personal computer side CC-Link IE Field Network board, PORT 1 to PORT 4 (first to fourth boards)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_CCIEF(0x15)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Connected station side module station number	Connected station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_CCIEFBOARD(0x2F)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

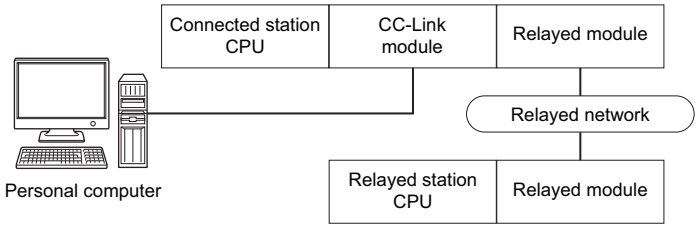
1: Channel 1

2: Channel 2

4.8 CC-Link Communication

CC-Link communication when the connected station is an RCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	RCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
×	○(1)	CC IE TSN	○(2)	×	×	×	×
		CC IE Control CC IE Field	○(2)	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○(2)	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	RCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
×	○(1)	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	×	○(2)*1	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

*1 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

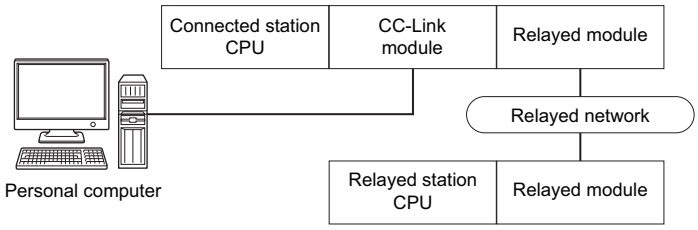
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side No specification: 1023 (0x3FF)
ActIONumber	1023(0x3FF)	Fixed to 1023 (0x3FF)	Fixed to 1023 (0x3FF)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number
ActPortNumber	1(PORT_1)	Port number of personal computer side CC-Link Ver.2 board, PORT 1 to PORT 4 (first to fourth boards)	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_CCLINK(0x07)	
ActStationNumber	255(0xFF)	Target station side CC-Link module station number	Target station side module station number
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side CC-Link module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_CCLINKBOARD(0x0C)	

CC-Link communication when the connected station is an LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

Property list

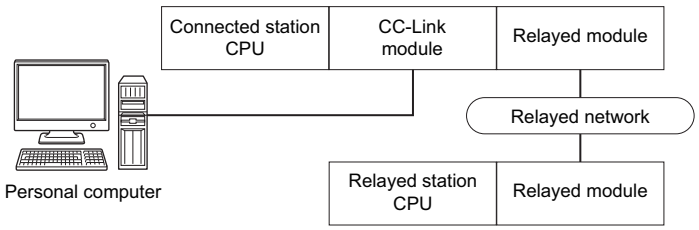
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○**(1)**	○**(2)**
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF)
ActIONumber	1023(0x3FF)	Fixed to 0 (0x00)	Fixed to 1023 (0x3FF)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Port number of personal computer side CC-Link Ver.2 board, PORT 1 to PORT 4 (first to fourth boards)	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_CCLINK(0x07)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side CC-Link module station number
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_CCLINKBOARD(0x0C)	

CC-Link communication when the connected station is a module supporting Q series

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own board	Connected station CPU		Relayed network	Relayed station CPU				
	QCPU (Q mode)	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)	○(2)*1*4	CC IE TSN	×	×	×	×	×
			CC IE Control CC IE Field	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×
			Ethernet	×	×	×	×	×
			Serial communication	×	×	×	×	×
			CC-Link	×	×	×	×	×

Own board	Connected station CPU		Relayed network	Relayed station CPU					
	QCPU (Q mode)	Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)	○(2)*1*4	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	○(3)	○(3)*2	○(3)*3	○(3)*2	○(3)*2	×
			MELSECNET/H	○(3)	○(3)	×	○(3)	○(3)	×
			Ethernet	○(3)	×	×	○(3)	○(3)	×
			Serial communication	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU				
	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)*5	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Own board	Connected station CPU	Relayed network	Relayed station CPU					
	QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)*5	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(3)	○(3)*2	×	○(3)*2	○(3)*2	×
		MELSECNET/H	○(3)	○(3)	×	○(3)	○(3)	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×

*1 Relayed stations cannot be accessed via Q motion CPU.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

*5 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

Property list

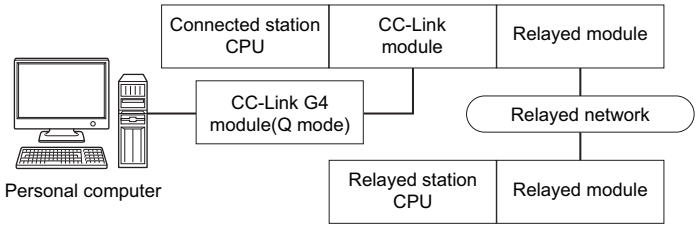
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActIONumber	1023(0x3FF)	Fixed to 0 (0x00)	Fixed to 1023 (0x3FF)	Fixed to 1023 (0x3FF)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActPortNumber	1(PORT_1)	Port number of personal computer side CC-Link Ver.2 board, PORT 1 to PORT 4 (first to fourth boards)		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_CCLINK(0x07)		
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side CC-Link module station number	Target station side module station number
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Connected station side CC-Link module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_CCLINKBOARD(0x0C)		

4.9 CC-Link G4 communication

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(2)*1*5	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)	Q motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(2)*1*5	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	○(2)*2	○(2)*2	×
		MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
		Ethernet	○(2)	×	×	○(2)	○(2)	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*4	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*4	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	○(2)*2	○(2)*2	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	○(2)	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Relayed stations cannot be accessed via Q motion CPU.

*2 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode), QSCPU, and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200		
ActConnectUnitNumber	0(0x00)	Connected station side module station number		
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)		
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_G4QNCPU(0x1B)		

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

4.10 GX Simulator Communication

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		Host station	Other station
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side network number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SHAREDMEMORY(0x06)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side station number
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitType	0x13(UNIT_QNCPU)	UNIT_SIMULATOR(0x0B)	

Point

When any of the following settings is included in the property setting, the host station is accessed.

- ActNetworkNumber: The number outside the range of 1 to 255 is set.
- ActStationNumber: The number outside the range of 1 to 64 is set.

4.11 GX Simulator2 Communication

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
ActTargetSimulator	0(0x00)	Refer to the property [ActTargetSimulator]. ☞ Page 64 Details of Control Properties
ActUnitType	0x13(UNIT_QNCPU)	UNIT_SIMULATOR2(0x30)

4.12 GX Simulator3 Communication

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActDataBits	8(DATABIT_8)	0(0x00)
ActDestinationPortNumber	0(0x00)	0(0x00)
ActDidPropertyBit	1(0x01)	0(0x00)
ActDsidPropertyBit	1(0x01)	0(0x00)
ActHostAddress	1.1.1.1	Loopback address(127.0.0.1)
ActIONumber	1023(0x3FF)	0(0x00)
ActNetworkNumber	0(0x00)	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1
ActParity	1(ODD_PARITY)	0(0x00)
ActPassword	Null	0(0x00)
ActPortNumber	1(PORT_1)	0(0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)
ActStationNumber	255(0xFF)	System number corresponding to target station
ActStopBits	0(STOPBIT_ONE)	0(0x00)
ActSumCheck	0(NO_SUM_CHECK)	0(0x00)
ActThroughNetworkType	0(0x00)	0(0x00)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_SIMULATOR3(0x31)
ActTargetSimulator	0(0x00)	PLC number corresponding to target station

4.13 MT Simulator2 Communication

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

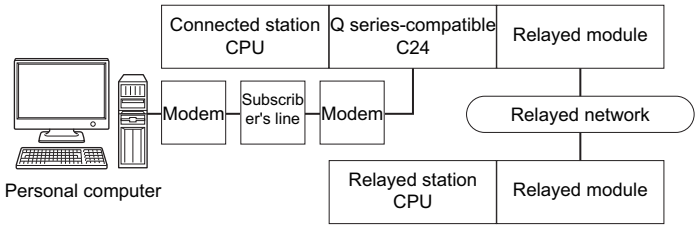
Property	Default value	Property patterns
ActTargetSimulator	0(0x00)	Refer to the property [ActTargetSimulator]. ☞ Page 64 Details of Control Properties
ActCpuType	CPU_Q02CPU	CPU type corresponding to the target station (Q motion CPU)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_SIMULATOR2(0x30)

4.14 Modem Communication

Modem communication when the connected module is Q series-compatible C24 1

When a relayed module other than the connected station side Q series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QCPU (Q mode)		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCPU (Q mode)		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*1	○(2)*2	○(2)*1	×	×
	MELSECNET/H	○(2)	○(2)	×	○(2)	×	×
	Ethernet	○(2)	×	×	○(2)	×	×
	Serial communication	○(3)*3	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) and QSCPU relayed by CC-Link IE Field Network cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActATCommand	Null	Any value specified by user			
ActATCommandPasswordCancelRetry Times	3	Any value specified by user			
ActATCommandResponse WaitTime	1	Any value specified by user (in seconds)			
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200 (Match to the setting of Q series-compatible C24.)			
ActCallbackCancelWaitTime	90	Any value specified by user (in seconds)			
ActCallbackDelayTime	20	Any value specified by user (in seconds)			
ActCallbackNumber	Null	Telephone number of any value specified by user			
ActCallbackReceptionWaitingTimeOut	120	Any value specified by user (in seconds)			
ActConnectionCDWaitTime	90	Any value specified by user (in seconds)			
ActConnectionModemReport WaitTime	5	Any value specified by user (in seconds)			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActConnectWay	0(TEL_AUTO_CONNECT)	TEL_AUTO_CONNECT(0), TEL_AUTO_CALLBACK(1), TEL_AUTO_CALLBACK_NUMBER(2), TEL_CALLBACK(3), TEL_CALLBACK_NUMBER(4), TEL_CALLBACK_REQUEST(5), TEL_CALLBACK_REQUEST_NUMBER(6), TEL_CALLBACK_WAIT(7) (Depending on callback function setting)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDialNumber	Null	Telephone number of any value specified by user			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDisconnectionCDWaitTime	5	Any value specified by user (in seconds)			
ActDisconnectionDelayTime	3	Any value specified by user (in seconds)			
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActLineType	1(LINETYPE_TONE)	LINETYPE_PULSE(0), LINETYPE_TONE(1), LINETYPE_ISDN(2)			
ActMultiDropChannelNumber *2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActOutsideLineNumber	Null	Outside line access number of any value specified by user			
ActPassword	Null	Password set to Q series-compatible C24			
ActPasswordCancelResponseWaitTime	5	Any value specified by user (in seconds)			
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIALMODEM(0x0E)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActTransmissionDelayTime	0	Any value specified by user (in seconds)			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)			

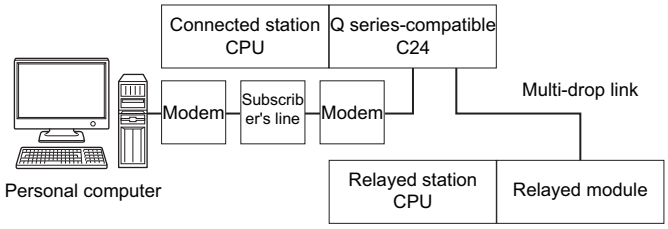
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Modem communication when the connected module is Q series-compatible C24 2

When performing multi-drop link on the connected station side Q series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*1	○(1)	Serial communication	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)			QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*1	○(1)	Serial communication	○(2)*2	×	○(2)	×	×	×

*1 The independent mode indicates that the parameters are set as follows.
- CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0
- CH2 side: Operation setting for transmission setting = independent (0)

*2 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActATCommand	Null	Any value specified by user	
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user	
ActATCommandResponseWaitTime	1	Any value specified by user (in seconds)	
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200 (Match to the setting of Q series-compatible C24.)	
ActCallbackCancelWaitTime	90	Any value specified by user (in seconds)	
ActCallbackDelayTime	20	Any value specified by user (in seconds)	
ActCallbackNumber	Null	Telephone number of any value specified by user	
ActCallbackReceptionWaitingTimeOut	120	Any value specified by user (in seconds)	
ActConnectionCDWaitTime	90	Any value specified by user (in seconds)	
ActConnectionModemReportWaitTime	5	Any value specified by user (in seconds)	
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActConnectWay	0(TEL_AUTO_CONNECT)	TEL_AUTO_CONNECT(0), TEL_AUTO_CALLBACK(1), TEL_AUTO_CALLBACK_NUMBER(2), TEL_CALLBACK(3), TEL_CALLBACK_NUMBER(4), TEL_CALLBACK_REQUEST(5), TEL_CALLBACK_REQUEST_NUMBER(6), TEL_CALLBACK_WAIT(7) (Depending on callback function setting)	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDialNumber	Null	Telephone number of any value specified by user	
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDisconnectionCDWaitTime	5	Any value specified by user (in seconds)	
ActDisconnectionDelayTime	3	Any value specified by user (in seconds)	
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber[*1]	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address
ActLineType	1(LINETYPE_TONE)	LINETYPE_PULSE(0), LINETYPE_TONE(1), LINETYPE_ISDN(2)	
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActOutsideLineNumber	Null	Outside line access number of any value specified by user	
ActPassword	Null	Password set to Q series-compatible C24	
ActPasswordCancelResponseWaitTime	5	Any value specified by user (in seconds)	

Property	Default value	Property patterns	
		○(1)	○(2)
ActPortNumber	1(PORT_1)	Personal computer side COM port number	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIALMODEM(0x0E)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActTransmissionDelayTime	0	Any value specified by user (in seconds)	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)	

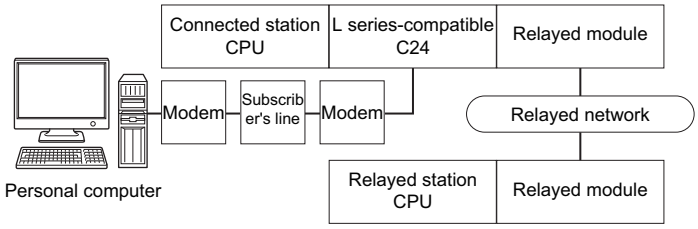
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Modem communication when the connected module is L series-compatible C24 1

When a relayed module other than the connected station side LJ71C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(4)	○(4)*3	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(2)*4	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Indicates the CH2 side setting. (The CH1 side is fixed to the independent mode.)

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*4 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActATCommand	Null	Any value specified by user			
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user			
ActATCommandResponseWaitTime	1	Any value specified by user (in seconds)			
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200 (Match to the setting of LJ71C24)			
ActCallbackCancelWaitTime	90	Any value specified by user (in seconds)			
ActCallbackDelayTime	20	Any value specified by user (in seconds)			
ActCallbackNumber	Null	Telephone number of any value specified by user			
ActCallbackReceptionWaitingTimeOut	120	Any value specified by user (in seconds)			
ActConnectionCDWaitTime	90	Any value specified by user (in seconds)			
ActConnectionModemReportWaitTime	5	Any value specified by user (in seconds)			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActConnectWay	0(TEL_AUTO_CONNECT)	TEL_AUTO_CONNECT(0), TEL_AUTO_CALLBACK(1), TEL_AUTO_CALLBACK_NUMBER(2), TEL_CALLBACK(3), TEL_CALLBACK_NUMBER(4), TEL_CALLBACK_REQUEST(5), TEL_CALLBACK_REQUEST_NUMBER(6), TEL_CALLBACK_WAIT(7)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU : 1023(0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification : 1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU : 1023(0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification : 1023(0x3FF)	Fixed to 0 (0x00)
ActDialNumber	Null	Telephone number of any value specified by user			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDisconnectionCDWaitTime	5	Any value specified by user (in seconds)			
ActDisconnectionDelayTime	3	Any value specified by user (in seconds)			
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber[*1]	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU : 1023(0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActLineType	1(LINETYPE_TONE)	LINETYPE_PULSE(0), LINETYPE_TONE(1), LINETYPE_ISDN(2)			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActOutsideLineNumber	Null	Outside line access number of any value specified by user			
ActPassword	Null	Password set to the module			
ActPasswordCancelResponseWaitTime	5	Any value specified by user (in seconds)			
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIALMODEM(0x0E)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActTransmissionDelayTime	0	Any value specified by user (in seconds)			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)			

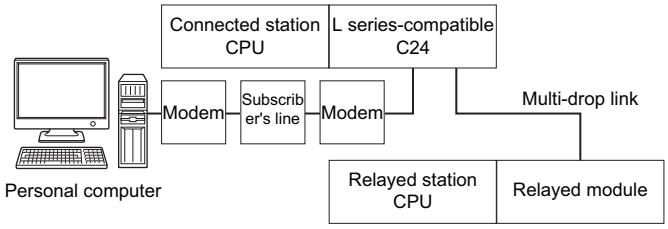
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Modem communication when the connected module is L series-compatible C24 2

When performing multi-drop link on the connected station side LJ71C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
LCPU			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode	○(1)	Serial communication	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
LCPU			QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode	○(1)	Serial communication	○(2)*1	×	○(2)	×	×	×

*1 For Redundant CPU, serial communication modules on the main base cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActATCommand	Null	Any value specified by user	
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user	
ActATCommandResponseWaitTime	1	Any value specified by user (in seconds)	
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_11520 (Match to the setting of LJ71C24)	
ActCallbackCancelWaitTime	90	Any value specified by user (in seconds)	
ActCallbackDelayTime	20	Any value specified by user (in seconds)	
ActCallbackNumber	Null	Telephone number of any value specified by user	
ActCallbackReceptionWaitingTimeOut	120	Any value specified by user (in seconds)	
ActConnectionCDWaitTime	90	Any value specified by user (in seconds)	
ActConnectionModemReportWaitTime	5	Any value specified by user (in seconds)	
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActConnectWay	0(TEL_AUTO_CONNECT)	TEL_AUTO_CONNECT(0), TEL_AUTO_CALLBACK(1), TEL_AUTO_CALLBACK_NUMBER(2), TEL_CALLBACK(3), TEL_CALLBACK_NUMBER(4), TEL_CALLBACK_REQUEST(5), TEL_CALLBACK_REQUEST_NUMBER(6), TEL_CALLBACK_WAIT(7)	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	

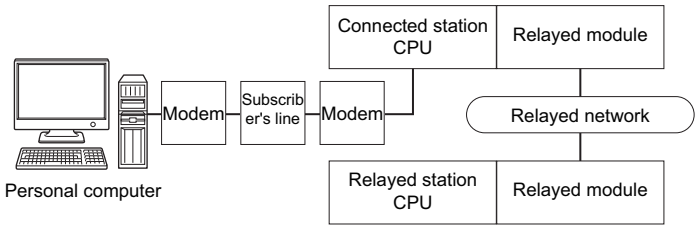
Property	Default value	Property patterns	
		○(1)	○(2)
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDialNumber	Null	Telephone number of any value specified by user	
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDisconnectionCDWaitTime	5	Any value specified by user (in seconds)	
ActDisconnectionDelayTime	3	Any value specified by user (in seconds)	
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address
ActLineType	1(LINETYPE_TONE)	LINETYPE_PULSE(0), LINETYPE_TONE(1), LINETYPE_ISDN(2)	
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActOutsideLineNumber	Null	Outside line access number of any value specified by user	
ActPassword	Null	Password set to the module	
ActPasswordCancelResponseWaitTime	5	Any value specified by user (in seconds)	
ActPortNumber	1(PORT_1)	Personal computer side COM port number	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIALMODEM(0x0E)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActTransmissionDelayTime	0	Any value specified by user (in seconds)	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)	

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Modem communication when the connected station is FXCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Property list

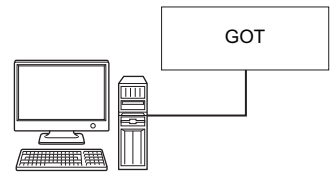
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActATCommand	Null	Any value specified by user
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user
ActATCommandResponseWaitTime	1	Any value specified by user (in seconds)
ActCallbackCancelWaitTime	90	Any value specified by user (in seconds)
ActCallbackDelayTime	20	Any value specified by user (in seconds)
ActCallbackNumber	Null	Telephone number of any value specified by user
ActCallbackReceptionWaitingTimeOut	120	Any value specified by user (in seconds)
ActConnectionCDWaitTime	90	Any value specified by user (in seconds)
ActConnectionModemReportWaitTime	5	Any value specified by user (in seconds)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActDialNumber	Null	Telephone number of any value specified by user
ActDisconnectionCDWaitTime	5	Any value specified by user (in seconds)
ActDisconnectionDelayTime	3	Any value specified by user (in seconds)
ActLineType	1(LINETYPE_TONE)	LINETYPE_PULSE(0), LINETYPE_TONE(1), LINETYPE_ISDN(2)
ActOutsideLineNumber	Null	Outside line access number of any value specified by user
ActPasswordCancelResponseWaitTime	5	Any value specified by user (in seconds)
ActPortNumber	1(PORT_1)	Personal computer side COM port number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TEL(0x0A)
ActTimeOut	10000	Any value specified by user in ms units
ActTransmissionDelayTime	0	Any value specified by user (in seconds)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXCPU(0x0F)

4.15 Gateway Function Communication

Configuration



Personal computer

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActHostAddress	1.1.1.1	Host name or IP address of connected GOT
ActPortNumber	1(PORT_1)	Personal computer side COM port number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_UDPIP(0x08)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_A900GOT(0x21)

4.16 GOT Transparent Communication

Point

For the applicable system configuration, refer to the following manual.

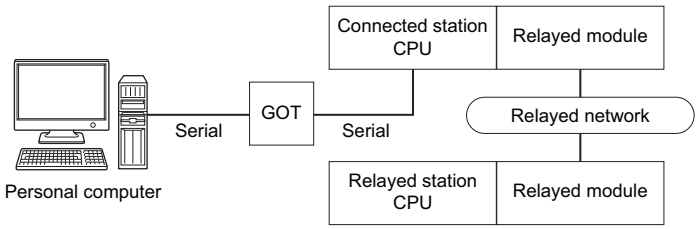
Connection manuals for GOT2000 series (Mitsubishi Products), (Non-Mitsubishi Products 1), (Non-Mitsubishi Products 2), (Microcomputer, MODBUS/Fieldbus Products, Peripherals)

Connection manuals for GOT1000 series (Mitsubishi Products), (Non-Mitsubishi Products 1), (Non-Mitsubishi Products 2), (Microcomputer, MODBUS Products, Peripherals)

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 1

When the connected station is FX5CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

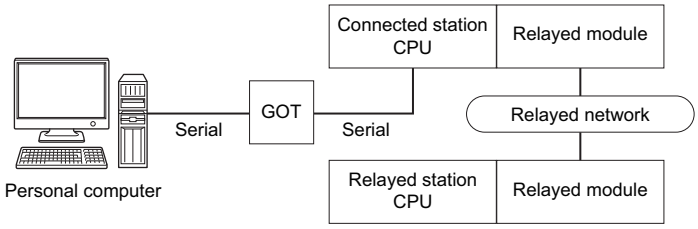
The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200		
ActConnectUnitNumber	0(0x00)	0(0x00)		
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.		
ActCpuTimeOut	0(0x00)	0(0x00)		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDataBits	8(DATABIT_8)	8(0x08)		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDestinationPortNumber	0(0x00)	0(0x00)		
ActDidPropertyBit	1(0x01)	0(0x00)		
ActDsidPropertyBit	1(0x01)	0(0x00)		
ActHostAddress	1.1.1.1	NULL		
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActMultiDropChannelNumber	0(0x00)	0(0x00)		
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1(0x01)		
ActParity	1(ODD_PARITY)	1(ODD_PARITY)		
ActPassword	Null	Null		
ActPortNumber	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)		
ActStopBits	0(STOPBIT_ONE)	0(STOPBIT_ONE)		
ActSumCheck	0(NO_SUM_CHECK)	0(NO_SUM_CHECK)		
ActSourceNetworkNumber	0(0x00)	0(0x00)		
ActSourceStationNumber	0(0x00)	0(0x00)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActTargetSimulator	0(0x00)	0(0x00)		
ActThroughNetworkType	0(0x00)	0(0x00)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXVCPU(0x2005)		

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 2

When the connected station is QCPU (Q mode)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU			Relayed network	Relayed station CPU				
QCPU (Q mode)	Q motion CPU	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*2	○(1)*5	CC IE TSN	×	×	×	×	×
			CC IE Control CC IE Field	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×
			Ethernet	×	×	×	×	×
			Serial communication	×	×	×	×	×
			CC-Link	×	×	×	×	×

Connected station CPU			Relayed network	Relayed station CPU					
QCPU (Q mode)	Q motion CPU	QCCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*2	○(1)*5	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	○(2)*3	×
			MELSECNET/H	○(2)	○(2)	×	×	○(2)	×
			Ethernet	○(2)	×	×	×	○(2)	×
			Serial communication	○(3)	×	○(3)	×	○(3)	×
			CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Redundant CPU cannot be accessed.
*2 Relayed stations cannot be accessed via Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode) and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QNCPU(0x13)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

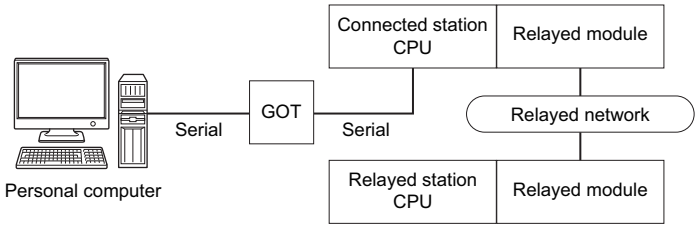
1: Channel 1

2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 3

When the connected station is LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(4)	○(4)*3	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActControl	8(TRC_DTR_OR_RTS)	8(TRC_DTR_OR_RTS)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LNCPU(0x50)			

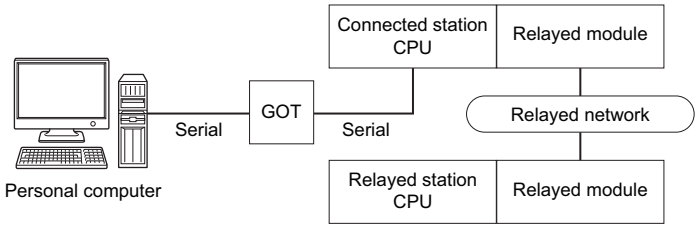
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Direct connection 4

When the connected station is FXCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	○(2)*1

*1 Only FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

The following table shows the property settings of communication paths.

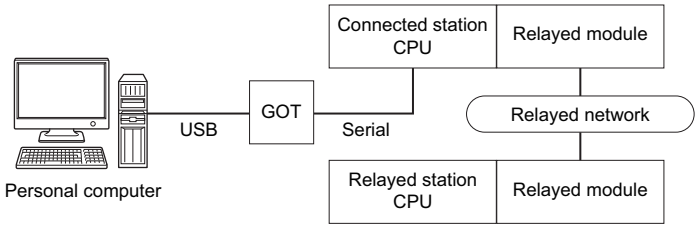
The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200	
ActControl	8(TRC_DTR_OR_RTS)	8(TRC_DTR_OR_RTS)	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActIONumber	1023(0x3FF)	Fixed to 0 (0x00)	Module number of the connected station
ActPortNumber	1(PORT_1)	Personal computer side COM port number	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXCPU(0x0F)	

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 1

When the connected station is FX5CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

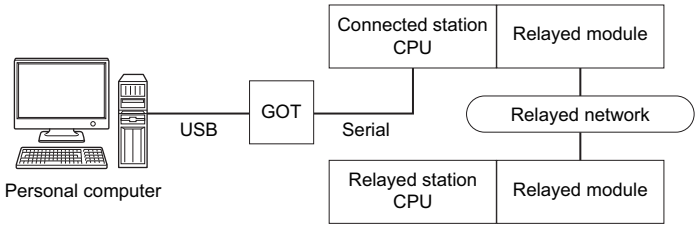
The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)		
ActConnectUnitNumber	0(0x00)	0(0x00)		
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)		
ActCpuTimeOut	0(0x00)	0(0x00)		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDataBits	8(DATABIT_8)	0(0x00)		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDestinationPortNumber	0(0x00)	0(0x00)		
ActDidPropertyBit	1(0x01)	0(0x00)		
ActDsidPropertyBit	1(0x01)	0(0x00)		
ActHostAddress	1.1.1.1	NULL		
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActMultiDropChannelNumber	0(0x00)	0(0x00)		
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1(0x01)		
ActParity	1(ODD_PARITY)	0(0x00)		
ActPassword	Null	Null		
ActPortNumber	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)		
ActStopBits	0(STOPBIT_ONE)	0(0x00)		
ActSumCheck	0(NO_SUM_CHECK)	0(0x00)		
ActSourceNetworkNumber	0(0x00)	0(0x00)		
ActSourceStationNumber	0(0x00)	0(0x00)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActTargetSimulator	0(0x00)	0(0x00)		
ActThroughNetworkType	0(0x00)	0(0x00)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXVCPU(0x2005)		

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 2

When the connected station is QCPU (Q mode)

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU			Relayed network	Relayed station CPU				
QCPU (Q mode)	Q motion CPU	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*2	○(1)*5	CC IE TSN	×	×	×	×	×
			CC IE Control CC IE Field	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×
			Ethernet	×	×	×	×	×
			Serial communication	×	×	×	×	×
			CC-Link	×	×	×	×	×

Connected station CPU			Relayed network	Relayed station CPU					
QCPU (Q mode)	Q motion CPU	QCCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*2	○(1)*5	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	○(2)*3	×
			MELSECNET/H	○(2)	○(2)	×	×	○(2)	×
			Ethernet	○(2)	×	×	×	○(2)	×
			Serial communication	○(3)	×	○(3)	×	○(3)	×
			CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Redundant CPU cannot be accessed.
*2 Relayed stations cannot be accessed via Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode) and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QNCPU(0x13)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

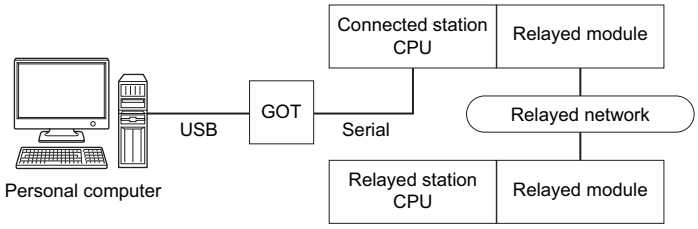
1: Channel 1

2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 3

When the connected station is LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(4)	○(4)*3	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)	×	○(2)	×	○(2)	×
	CC-Link	○(3)	○(3)	○(3)	×	○(3)	×

*1 Redundant CPU cannot be accessed.
*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LNCPU(0x50)			

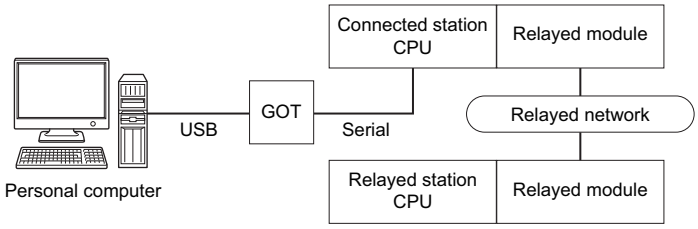
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Direct connection 4

When the connected station is FXCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	○(2)*1

*1 Only FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

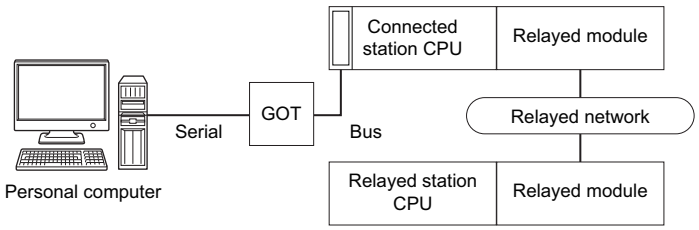
The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	0(0x00)	Fixed to 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	0(0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	0(0x00)	Fixed to 1 (0x01)
ActIONumber	1023(0x3FF)	0(0x00)	Module number of the connected station
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	0(0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_FXCPU(0x0F)	

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Bus connection

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)	Q motion CPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	○(2)*3	×
		MELSECNET/H	○(2)	○(2)	×	×	○(2)	×
		Ethernet	○(2)	×	×	×	○(2)	×
		Serial communication	○(3)	×	○(3)	×	○(3)	×
		CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*6	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)[*1]	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)[*6]	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)[*3]	○(2)[*4]	×	○(2)[*3]	×
	MELSECNET/H	○(2)	○(2)	×	×	○(2)	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Redundant CPU cannot be accessed.
*2 Relayed stations cannot be accessed via Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.
*6 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber[*1]	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber[*2]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActTimeOut*3	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_A900GOT(0x21)			

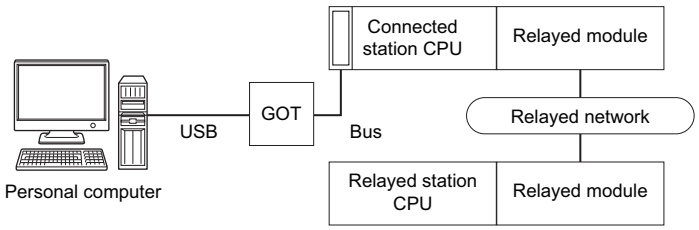
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When a value between 0 and 5000 [ms] is specified, the value is fixed to 5000 ms. Note that the value is fixed to 255000 ms when a value greater than 255000 ms is specified.

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Bus connection

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)	Q motion CPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	○(2)*3	×
		MELSECNET/H	○(2)	○(2)	×	×	○(2)	×
		Ethernet	○(2)	×	×	×	○(2)	×
		Serial communication	○(3)	×	○(3)	×	○(3)	×
		CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	○(2)*3	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.
*2 Relayed stations cannot be accessed via Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActTimeOut*3	10000	Any value specified by user in ms units			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_A900GOT(0x21)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

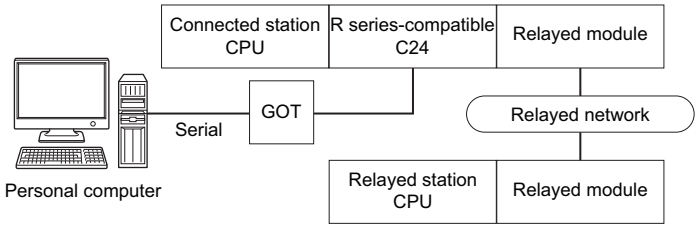
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 When a value between 0 and 5000 [ms] is specified, the value is fixed to 5000 ms. Note that the value is fixed to 255000 ms when a value greater than 255000 ms is specified.

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 1

When a relayed module other than the connected station side R series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*1*3	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	○(2)*2	○(2)	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○(2)	×	×	×	×
		Serial communication	○(3)	×	×	×	×
		CC-Link	○(4)	○(4)	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*1*3	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	×	○(2)*2	×	×	×
		MELSECNET/H	○(2)	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	×	○(4)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of R series-compatible C24.			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActHostAddress	1.1.1.1	Fixed to NULL			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 8 (0x08)			
ActParity	1(ODD_PARITY)	Fixed to 1 (0x01)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)			
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)			
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71C24			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side R series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of R series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

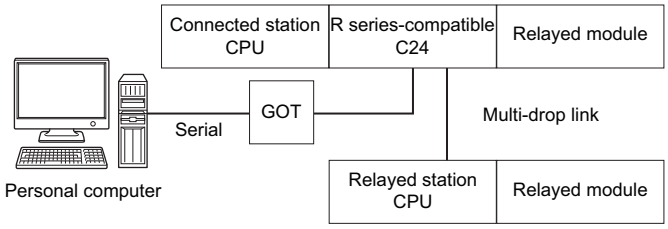
*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 2

When performing multi-drop link on the connected station side R series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU, R motion CPU*1*4			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*2	○(1)	Serial communication	○(2)	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU, R motion CPU*1*4			QCPU (Q mode)*3	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*2	○(1)	Serial communication	○(2)	×	○(2)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.

*2 The independent mode indicates that the parameters are set as follows.

· CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0

· CH2 side: Operation setting for transmission setting = independent (0)

*3 Redundant CPU cannot be accessed.

*4 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActBaudRate	19200(BAUDRATE_19200)	Match to the setting of R series-compatible C24.	
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber*1	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActParity	1(ODD_PARITY)	Fixed to 1(ODD_PARITY)	
ActPortNumber	1(PORT_1)	Personal computer side COM port number	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL	
ActHostAddress	1.1.1.1	Fixed to NULL	
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)	
ActDataBits	8(DATABIT_8)	Fixed to 8 (0x08)	
ActParity	1(ODD_PARITY)	Fixed to 1 (0x01)	
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)	
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)	
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)	
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71C24	

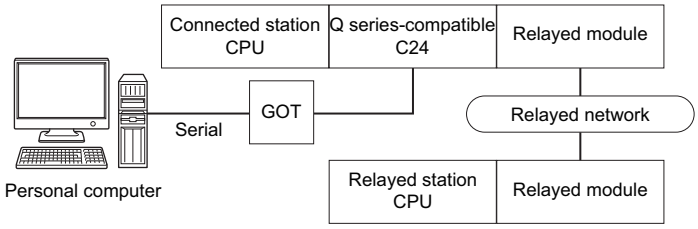
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 3

When a relayed module other than the connected station side Q series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)	Q motion CPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	○(2)*3	×
		MELSECNET/H	○(2)	○(2)	×	×	○(2)	×
		Ethernet	○(2)	×	×	×	○(2)	×
		Serial communication	○(3)	×	○(3)	×	○(3)	×
		CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Redundant CPU cannot be accessed.
*2 Relayed stations cannot be accessed via Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode) and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*1	1023(0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

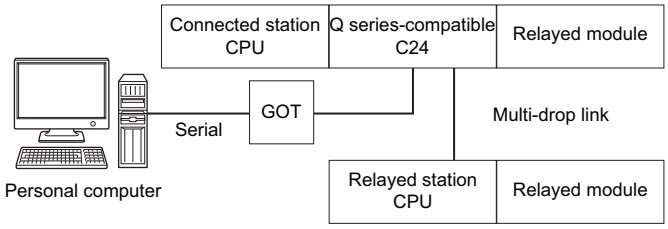
1: Channel 1

2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 4

When performing multi-drop link on the connected station side Q series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)*1			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*2	○(1)	Serial communication	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)*1			QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*2	○(1)	Serial communication	○(2)	×	○(2)	×	×	×

*1 For Redundant CPU, serial communication modules on the main base cannot be accessed.

*2 The independent mode indicates that the parameters are set as follows.

· CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0

· CH2 side: Operation setting for transmission setting = independent (0)

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActBaudRate	19200(BAUDRATE_19200)	Q series BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200	
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address
ActMultiDropChannelNumber*1	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActParity	1(ODD_PARITY)	Match to the setting of Q series-compatible C24.	
ActPortNumber	1(PORT_1)	Personal computer side COM port number	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)	

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

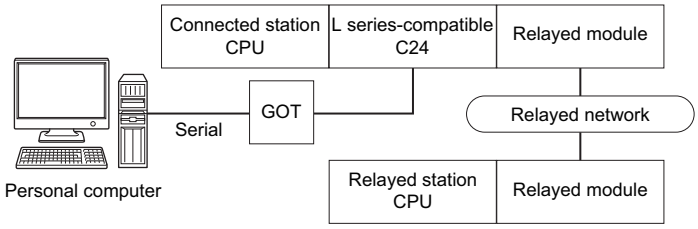
1: Channel 1

2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 5

When a relayed module other than the connected station side L series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(4)	○(4)*3	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)	×	○(2)	×	○(2)	×
	CC-Link	○(3)	○(3)	○(3)	×	○(3)	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Fixed to 1(ODD_PARITY)			
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)			

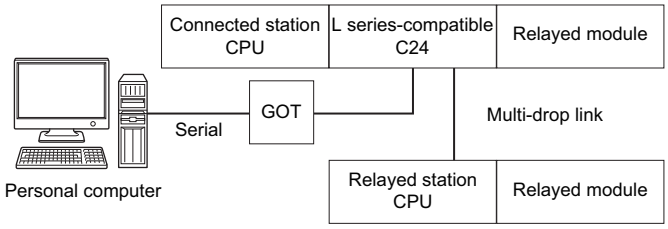
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Serial communication module 6

When performing multi-drop link on the connected station side L series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
LCPU			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*2	○(1)	Serial communication	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
LCPU			QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*2	○(1)	Serial communication	○(2)	×	○(2)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 The independent mode indicates that the parameters are set as follows.

· CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0

· CH2 side: Operation setting for transmission setting = independent (0)

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200	
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActParity	1(ODD_PARITY)	Match to the setting of L series-compatible C24.	
ActPortNumber	1(PORT_1)	Personal computer side COM port number	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)	

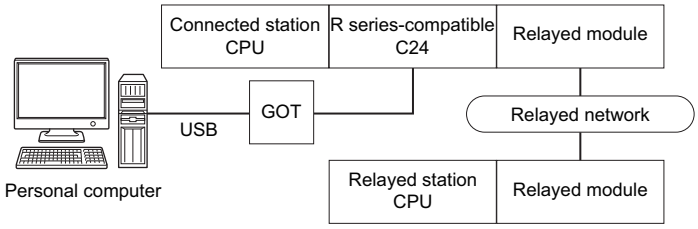
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 1

When a relayed module other than the connected station side R series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*1*3	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	○(2)*2	○(2)	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×
		Serial communication	○(3)	×	○(3)	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*1*3	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	×	○(2)*2	×	×	×
		MELSECNET/H	○(2)	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	×	○(4)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActHostAddress	1.1.1.1	Fixed to NULL			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)			
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)			
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71C24			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set to R series-compatible E71 parameter settings on the target station side.
· Set "MNET/10 routing information" to R series-compatible E71 parameter setting. When setting parameters, specify other than Automatic Response System (any of IP address calculation system, table conversion system, or combined system) for "MNET/10 routing method".

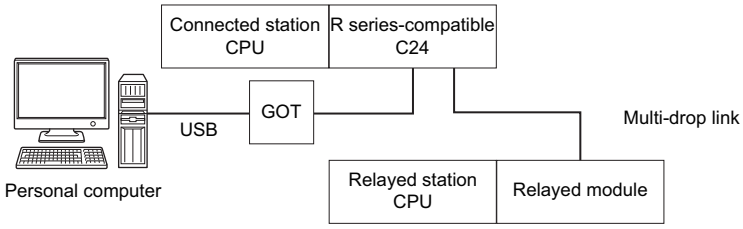
*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 2

When performing multi-drop link on the connected station side R series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU, R motion CPU*1*4			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*3	○(1)	Serial communication	○(2)	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU, R motion CPU*1*4			QCPU (Q mode)*2	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*3	○(1)	Serial communication	○(2)	×	○(2)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.

*2 Redundant CPU cannot be accessed.

*3 The independent mode indicates that the parameters are set as follows.

· CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0

· CH2 side: Operation setting for transmission setting = independent (0)

*4 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber*1	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT	
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1	
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)	
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)	
ActHostAddress	1.1.1.1	Fixed to NULL	
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)	
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)	
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)	
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)	
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)	
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)	
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)	
ActDestinationPortNumber	0(0x00)	Fixed to 0 (0x00)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_RJ71C24	

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

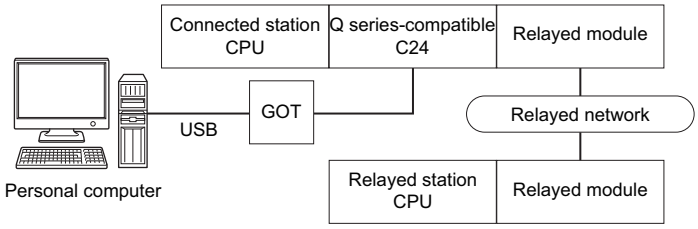
1: Channel 1

2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 3

When a relayed module other than the connected station side Q series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	Q motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)	Q motion CPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*2*5	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	○(2)*3	×
		MELSECNET/H	○(2)	○(2)	×	×	○(2)	×
		Ethernet	○(2)	×	×	×	○(2)	×
		Serial communication	○(3)	×	○(3)	×	○(3)	×
		CC-Link	○(4)	○(4)	○(4)	×	○(4)	×

*1 Redundant CPU cannot be accessed.
*2 Relayed stations cannot be accessed via Q motion CPU.
*3 Since CC-Link IE Field Network is not supported, R motion CPU, Q12DCCPU-V (Basic mode) and Q motion CPU relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThrough NetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

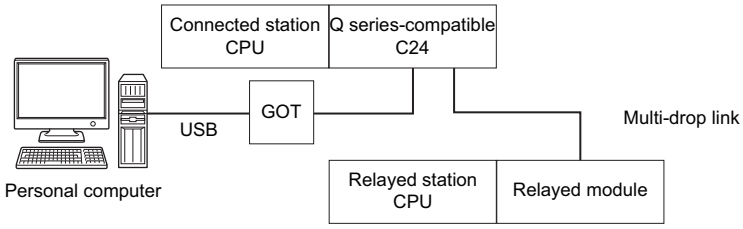
1: Channel 1

2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 4

When performing multi-drop link on the connected station side Q series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)*1			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*2	○(1)	Serial communication	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)*1			QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*2	○(1)	Serial communication	○(2)	×	○(2)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 The independent mode indicates that the parameters are set as follows.

· CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0

· CH2 side: Operation setting for transmission setting = independent (0)

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns	
		○(1)	○(2)
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QJ71C24(0x19)	

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.

0: Default channel of module

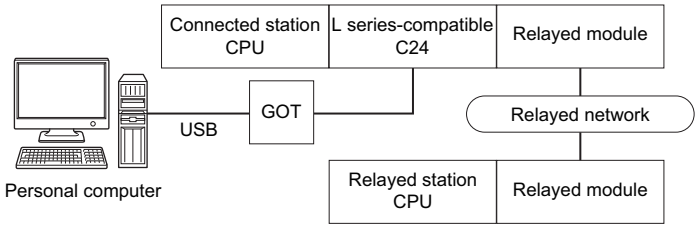
1: Channel 1

2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 5

When a relayed module other than the connected station side L series-compatible C24 exists

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(4)	○(4)*3	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)	×	○(2)	×	○(2)	×
	CC-Link	○(3)	○(3)	○(3)	×	○(3)	×

*1 Redundant CPU cannot be accessed.
*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActConnectUnitNumber	0(0x00)	Connected station side module station number			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Fixed to 0 (0x00)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Fixed to NULL			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)			

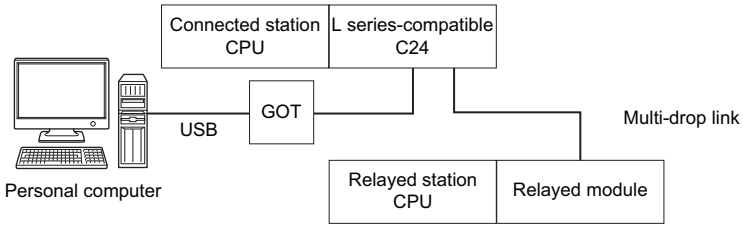
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Serial communication module 6

When performing multi-drop link on the connected station side L series-compatible C24 with the relayed module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
LCPU			RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Independent mode*2	○(1)	Serial communication	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
LCPU			QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Independent mode*2	○(1)	Serial communication	○(2)	×	○(2)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 The independent mode indicates that the parameters are set as follows.

· CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0

· CH2 side: Operation setting for transmission setting = independent (0)

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

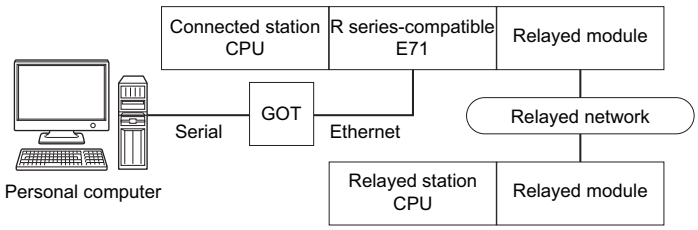
Property	Default value	Property patterns	
		○(1)	○(2)
ActConnectUnitNumber	0(0x00)	Connected station side module station number	
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station	
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)	
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_LJ71C24(0x54)	

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: R series-compatible E71

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
RCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	○(2)	×	×	×	×
	Serial communication	○(3)	×	×	×	×
	CC-Link	○(4)	○(4)	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
RCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(2)	×	○(2)	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	×	○(4)	×	×	×

*1 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActConnectUnitNumber*1	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDestinationPortNumber	0(0x00)	5001 Host station port number for OPS connection*3			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*4	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*5	0(0x00)	Target station side module network number	Target station side module network number	Connected station side R series-compatible E71 network number	Connected station side R series-compatible E71 network number
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActDataBits	8(DATABIT_8)	Fixed to 8 (0x08)			
ActParity	1(ODD_PARITY)	Fixed to 1 (0x01)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActSourceNetworkNumber*6	0(0x00)	GOT side network number			
ActSourceStationNumber*7	0(0x00)	GOT side station number			
ActStationNumber*5	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side R series-compatible E71 station number	Connected station side R series-compatible E71 station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_RJ71EN71			

*1 When the property pattern is ○(2), specify the connected station side R series-compatible E71 station number set to the connected station side R series-compatible E71 Ethernet parameter.

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 When using OPS connection function at redundant CPU connection, set the port No. specified to "Host Station Port No." in Network parameter.

*4 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

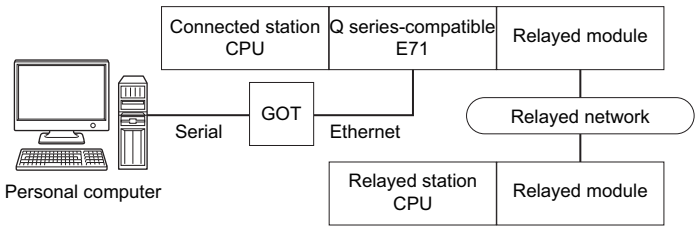
*5 For the property pattern of ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*6 Specify the same network No. as MELSECNET/10 network No. set to R series-compatible E71 in the Ethernet parameter settings of target station side R series-compatible E71.

*7 Specify the station number on the GOT side to avoid setting the same station number as set to the R series-compatible E71 on the same Ethernet loop.

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Q series-compatible E71

Configuration



The communication cannot be established when a remote password is set to the connected station side Q series-compatible E71.

Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QCPU (Q mode)		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCPU (Q mode)		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

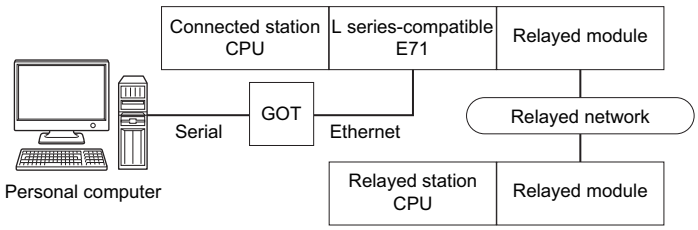
The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDestinationPortNumber	0(0x00)	5001			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Target station side module network number	Target station side module network number	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActSourceNetworkNumber	0(0x00)	GOT side network number			
ActSourceStationNumber*4	0(0x00)	GOT side station number			
ActStationNumber*3	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side Q series-compatible E71 station number	Connected station side Q series-compatible E71 station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_QJ71E71(0x40)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2
*3 For the property pattern of ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.
*4 Specify the station number on the GOT side to avoid setting the same station number as set to the Q series-compatible E71 on the same Ethernet loop.

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: L series-compatible E71

Configuration



The communication cannot be established when a remote password is set to the connected station side L series-compatible E71.

Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	○(2)	○(2)	×	×	×
	Serial communication	○(3)*4	○(3)*4	○(3)*4	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 For Redundant CPU, serial communication modules on the main base cannot be accessed because the multi-drop connection cannot be performed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActConnectUnitNumber*1	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber*2	0(0x00)	5001 Host station port number for OPS connection			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*3	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*4	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*5	0(0x00)	Target station side module network number	Target station side module network number	Connected station side L series-compatible E71 network number	Connected station side L series-compatible E71 network number
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActSourceNetworkNumber*6	0(0x00)	GOT side network number			
ActSourceStationNumber*7	0(0x00)	GOT side station number			
ActStationNumber*5	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side L series-compatible E71 station number	Connected station side L series-compatible E71 station number

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_LJ71E71(0x5D)			

*1 When the property pattern is ○(2), specify the connected station side L series-compatible E71 station number set to the connected station side L series-compatible E71 Ethernet parameter.

*2 When using OPS connection function at redundant CPU connection, set the port No. specified to "Host Station Port No." in Network parameter.

*3 For the I/O address, specify the value of the actual start I/O number divided by 16.

*4 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

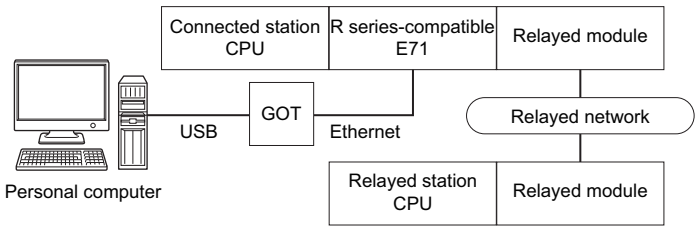
*5 For the property pattern of ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*6 Specify the same network No. as MELSECNET/10 network No. set to L series-compatible E71 in the Ethernet parameter settings of target station side L series-compatible E71.

*7 Specify the station number on the GOT side to avoid setting the same station number as set to the L series-compatible E71 on the same Ethernet loop.

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: R series-compatible E71

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU	RCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*1,*2	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○(2)	×	×	×	×
		Serial communication	○(3)	×	×	×	×
		CC-Link	○(4)	○(4)	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU	RCCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*1,*2	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	○(2)	×	○(2)	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	×	○(4)	×	×	×

*1 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

*2 A communication with a relayed station via network cannot be established.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActConnectUnitNumber[*1]	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber[*2]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDestinationPortNumber	0(0x00)	5001 Host station port number for OPS connection[*3]			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber[*2]	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber[*4]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber[*5]	0(0x00)	Target station side module network number	Target station side module network number	Connected station side R series-compatible E71 network number	Connected station side R series-compatible E71 network number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActSourceNetworkNumber[*6]	0(0x00)	GOT side network number			
ActSourceStationNumber[*7]	0(0x00)	GOT side station number			
ActStationNumber[*5]	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side R series-compatible E71 network number	Connected station side R series-compatible E71 network number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_RJ71EN71			

*1 When the property pattern is ○(2), specify the connected station side R series-compatible E71 station number set to the connected station side R series-compatible E71 Ethernet parameter.

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 When using OPS connection function at redundant CPU connection, set the port No. specified to "Host Station Port No." in Network parameter.

*4 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

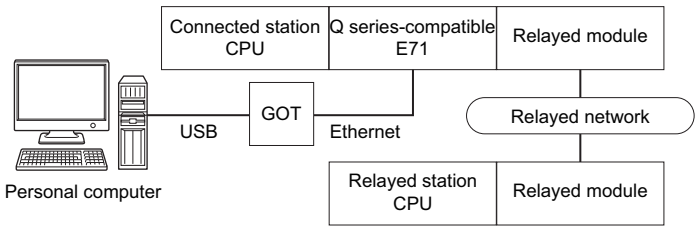
*5 For the property pattern of ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*6 Specify the same network No. as MELSECNET/10 network No. set to R series-compatible E71 in the Ethernet parameter settings of target station side R series-compatible E71.

*7 Specify the station number on the GOT side to avoid setting the same station number as set to the R series-compatible E71 on the same Ethernet loop.

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Q series-compatible E71

Configuration



The communication cannot be established when a remote password is set to the connected station side Q series-compatible E71.

Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*4	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)	QCCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*4	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
		MELSECNET/H	○(2)	○(2)	×	×	×	×
		Ethernet	○(2)	×	×	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.
*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.
*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*4 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	5001			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Target station side module network number	Target station side module network number	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActSourceNetworkNumber	0(0x00)	GOT side network number			
ActSourceStationNumber*4	0(0x00)	GOT side station number			
ActStationNumber*3	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side Q series-compatible E71 station number	Connected station side Q series-compatible E71 station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_QJ71E71(0x40)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

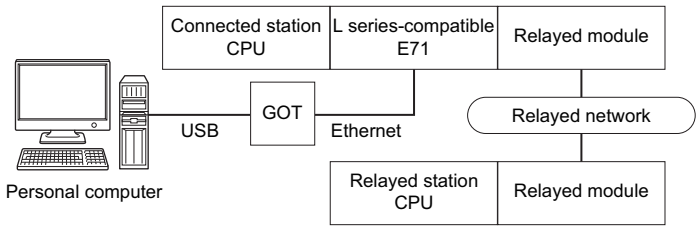
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 For the property pattern of ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

*4 Specify the station number on the GOT side to avoid setting the same station number as set to the Q series-compatible E71 on the same Ethernet loop.

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: L series-compatible E71

Configuration



The communication cannot be established when a remote password is set to the connected station side L series-compatible E71.

Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	○(2)	○(2)	×	×	×
	Serial communication	○(3)*4	○(3)*4	○(3)*4	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.
*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.
*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*4 For Redundant CPU, serial communication modules on the main base cannot be accessed because the multi-drop connection cannot be performed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActConnectUnitNumber[*1]	0(0x00)	Fixed to 0 (0x00)	Connected station side module station number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber[*2]	0(0x00)	5001 Host station port number for OPS connection			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIONumber[*3]	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber[*4]	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber[*5]	0(0x00)	Target station side module network number	Target station side module network number	Connected station side L series-compatible E71 network number	Connected station side L series-compatible E71 network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActSourceNetworkNumber[*6]	0(0x00)	GOT side network number			
ActSourceStationNumber[*7]	0(0x00)	GOT side station number			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActStationNumber*5	255(0xFF)	Target station side module station number	Target station side module station number	Connected station side L series-compatible E71 station number	Connected station side L series-compatible E71 station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_LJ71E71(0x5D)			

*1 When the property pattern is ○(2), specify the connected station side L series-compatible E71 station number set to the connected station side L series-compatible E71 Ethernet parameter.

*2 When using OPS connection function at redundant CPU connection, set the port No. specified to "Host Station Port No." in Network parameter.

*3 For the I/O address, specify the value of the actual start I/O number divided by 16.

*4 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*5 For the property pattern of ○(1) or ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

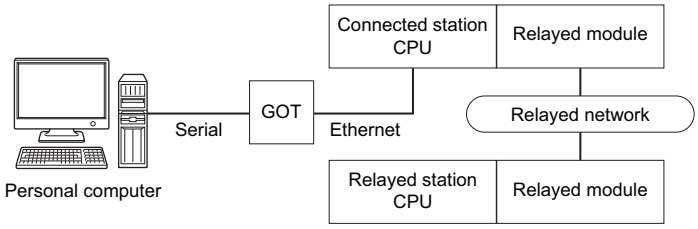
*6 Specify the same network No. as MELSECNET/10 network No. set to L series-compatible E71 in the Ethernet parameter settings of target station side L series-compatible E71.

*7 Specify the station number on the GOT side to avoid setting the same station number as set to the L series-compatible E71 on the same Ethernet loop.

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 1

When the connected station is RCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU			Relayed network	Relayed station CPU				
RCPU	RCCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*3	○(1)*1*3	CC IE TSN	×	×	×	×	×
			CC IE Control CC IE Field	○(2)*2	○(2)	×	×	○(2)*5
			MELSECNET/H	×	×	×	×	×
			Ethernet	○(2)*4	×	×	×	×
			Serial communication	○(3)*4	×	×	×	×
			CC-Link	○(4)	○(4)	×	×	○(4)

Connected station CPU			Relayed network	Relayed station CPU					
RCPU	RCCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*3	○(1)*1*3	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	○(2)	×	○(2)*2	×	×	×
			MELSECNET/H	○(2)*4	×	×	×	×	×
			Ethernet	○(2)*4	×	○(2)*4	×	×	×
			Serial communication	○(3)*4	×	○(3)*4	×	×	×
			CC-Link	○(4)	×	○(4)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.
*4 RCCPU cannot be accessed because the communication route is not supported.
*5 Only CC-Link IE Field Network of which connected station is RCPU and relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station RCPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station RCPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActDataBits	8(DATABIT_8)	Fixed to 8 (0x08)			
ActParity	1(ODD_PARITY)	Fixed to 1 (0x01)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)			
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)			
ActDestinationPortNumber	0(0x00)	5006			
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			MELSECNET/10 is not included.: 0 (0x00)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_RETHER			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set to R series-compatible E71 parameter settings on the target station side.
· Set "MNET/10 routing information" to R series-compatible E71 parameter setting. When setting parameters, specify other than Automatic Response System (any of IP address calculation system, table conversion system, or combined system) for "MNET/10 routing method".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

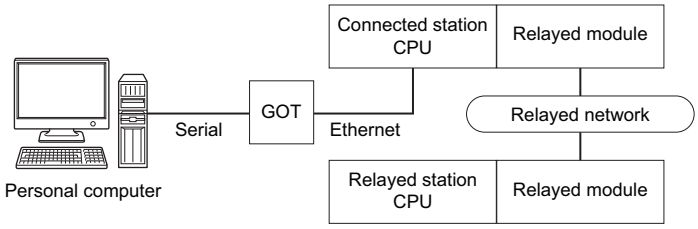
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 For the property pattern of ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 2

When the connected station is FX5CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

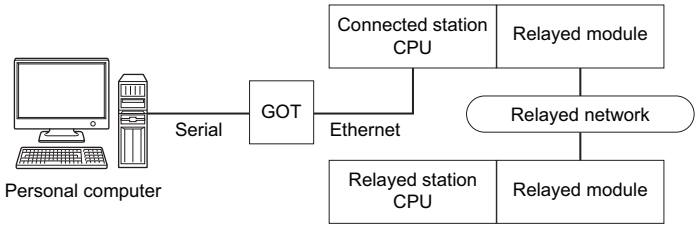
The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200		
ActConnectUnitNumber	0(0x00)	0(0x00)		
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.		
ActCpuTimeOut	0(0x00)	0(0x00)		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDataBits	8(DATABIT_8)	8(DATABIT_8)		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDestinationPortNumber	0(0x00)	5562		
ActDidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActDsidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module		IP address of a connected station CPU
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActMultiDropChannelNumber	0(0x00)	0(0x00)		
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1(0x01)		
ActParity	1(ODD_PARITY)	1(ODD_PARITY)		
ActPassword	Null	Null		
ActPortNumber	1(PORT_1)	Personal computer side COM port number		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)		
ActStopBits	0(STOPBIT_ONE)	0(STOPBIT_ONE)		
ActSumCheck	0(NO_SUM_CHECK)	0(NO_SUM_CHECK)		
ActSourceNetworkNumber	0(0x00)	0(0x00)		
ActSourceStationNumber	0(0x00)	0(0x00)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActTargetSimulator	0(0x00)	0(0x00)		
ActThroughNetworkType	0(0x00)	0(0x00)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_FXVETHER(0x2007)		

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 3

When the connected station is QnUDE(H)CPU or QCCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU[*1]	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU[*1]	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)[*2]	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)[*3]	○(2)[*4]	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)[*5]	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)*2	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*5	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*3	○(2)*4	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 The communication cannot be established when a remote password is set to the connected station CPU.
*2 Redundant CPU cannot be accessed.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*5 Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS cannot be accessed because the communication route is not supported.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber *3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_QNETHER(0x41)			

*1 Note the following considerations when accessing via Ethernet module (Q series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of Q series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

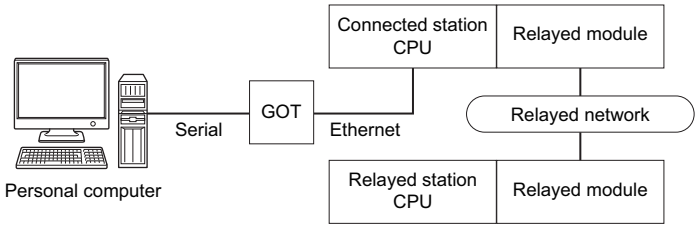
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 For the property pattern of ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet port 4

When the connected station is LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU*1	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*3	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU*1	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*2	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*3	○(4)	○(4)*4	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 The communication cannot be established when a remote password is set to the connected station CPU.
*2 Redundant CPU cannot be accessed.
*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*4 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	5006			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_LNETHER(0x55)			

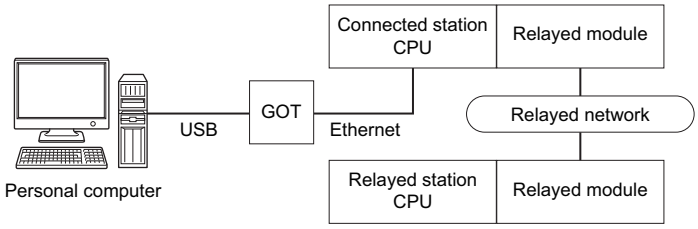
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 1

When the connected station is RCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU			Relayed network	Relayed station CPU				
RCPU	RCCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*3	○(1)*1,*3	CC IE TSN	×	×	×	×	×
			CC IE Control CC IE Field	○(2)*2	○(2)	×	×	○(2)*4
			MELSECNET/H	×	×	×	×	×
			Ethernet	○(2)	×	×	×	×
			Serial communication	○(3)	×	×	×	×
			CC-Link	○(4)	○(4)	×	×	○(4)

Connected station CPU			Relayed network	Relayed station CPU					
RCPU	RCCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*3	○(1)*1,*3	CC IE TSN	×	×	×	×	×	×
			CC IE Control CC IE Field	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			Ethernet	×	×	○(2)	×	×	×
			Serial communication	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.
*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.
*4 Only CC-Link IE Field Network of which connected station is RCPU and relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station RCPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station RCPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)			
ActDestinationPortNumber	0(0x00)	5006			
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			MELSECNET/10 is not included.: 0 (0x00)

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_RETHER			

*1 Note the following considerations when accessing via Ethernet module (R series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set to R series-compatible E71 parameter settings on the target station side.
· Set "MNET/10 routing information" to R series-compatible E71 parameter setting. When setting parameters, specify other than Automatic Response System (any of IP address calculation system, table conversion system, or combined system) for "MNET/10 routing method".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

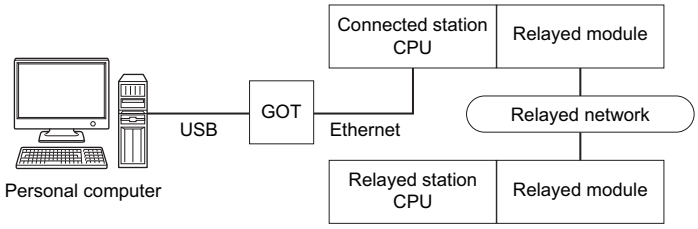
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 For the property pattern of ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 2

When the connected station is FX5CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

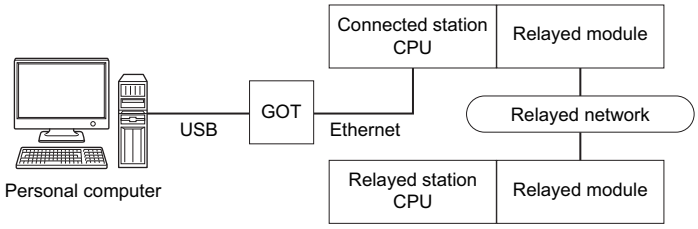
The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)		
ActConnectUnitNumber	0(0x00)	0(0x00)		
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)		
ActCpuTimeOut	0(0x00)	0(0x00)		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDataBits	8(DATABIT_8)	0(0x00)		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDestinationPortNumber	0(0x00)	5562		
ActDidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActDsidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module		IP address of a connected station CPU
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActMultiDropChannelNumber	0(0x00)	0(0x00)		
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1(0x01)		
ActParity	1(ODD_PARITY)	0(0x00)		
ActPassword	Null	Null		
ActPortNumber	1(PORT_1)	1(0x01)		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)		
ActStopBits	0(STOPBIT_ONE)	0(0x00)		
ActSumCheck	0(NO_SUM_CHECK)	0(0x00)		
ActSourceNetworkNumber	0(0x00)	0(0x00)		
ActSourceStationNumber	0(0x00)	0(0x00)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActTargetSimulator	0(0x00)	0(0x00)		
ActThroughNetworkType	0(0x00)	0(0x00)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_FXVETHER(0x2007)		

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 3

When the connected station is QCPU (Q mode) or QCCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU[*1]	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU[*1]	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)[*2]	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)[*3]	○(2)[*4]	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

Connected station CPU[*1]	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU[*1]	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)[*2]	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)[*3]	○(2)[*4]	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 The communication cannot be established when a remote password is set to the connected station CPU.
*2 Redundant CPU cannot be accessed.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.
*4 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)[*1]	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU:1 (0x01) Other than the above: 0 (0x00)
ActIONumber[*2]	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address

Property	Default value	Property patterns			
		○(1)	○(2)*1	○(3)	○(4)
ActMultiDropChannelNumber *3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_QNETHER(0x41)			

*1 Note the following considerations when accessing via Ethernet module (Q series-compatible E71).
· For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71.
· Set "Station No. ⇔ IP information" in the parameter setting of Q series-compatible E71. When setting the parameter, specify the setting other than the automatic response system (any of the IP address calculation system, table conversion system, and combined system) for "Station No. ⇔ IP information system".

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

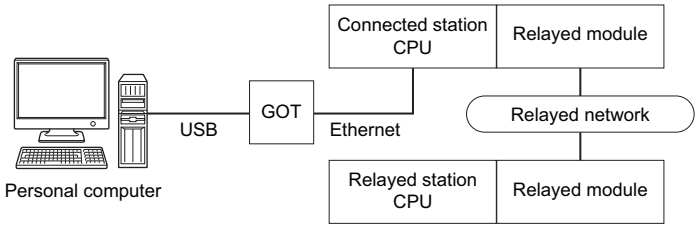
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 For the property pattern of ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet port 4

When the connected station is LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU[*1]	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field[*3]	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU[*1]	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)[*2]	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field[*3]	○(4)	○(4)[*4]	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	○(4)	×	○(4)	×	×	×
	Serial communication	○(2)	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 The communication cannot be established when a remote password is set to the connected station CPU.
*2 Redundant CPU cannot be accessed.
*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*4 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	5006			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of the connected station side module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			

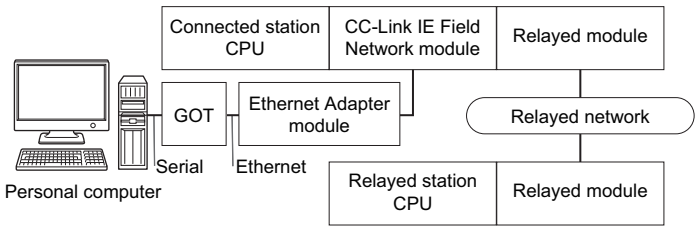
Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_LNETHER(0x55)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet adapter module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*3	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*3	○(2)	○(2)*2	○(2)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of Ethernet adapter module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Connected station side CC-Link IE Field Network module network number	Target station side module network number	Connected station side CC-Link IE Field Network module network number	Connected station side CC-Link IE Field Network module network number
ActPortNumber	1(PORT_1)	Personal computer side COM port number			
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL(0x04)			
ActStationNumber*3	255(0xFF)	Connected station side CC-Link IE Field Network module station number	Target station side module station number	Connected station side CC-Link IE Field Network module station number	Connected station side CC-Link IE Field Network module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_NZ2GF_ETB(0x5B)			

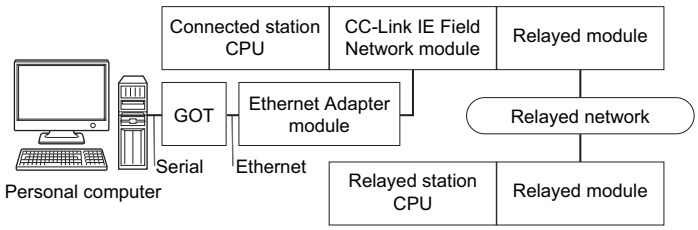
*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*3 For the property pattern of ○(1), ○(3), or ○(4), specify the parameter value set on the CC-Link IE Field Network module on the connected station side for ActNetworkNumber and ActStationNumber.
For the property pattern of ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet adapter module

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QnUDE(H)CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QnUDE(H)CPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	○(2)	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*3	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*3	○(2)	×	○(2)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of Ethernet adapter module			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)			
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*3	0(0x00)	Connected station side CC-Link IE Field Network module network number	Target station side module network number	Connected station side CC-Link IE Field Network module network number	Connected station side CC-Link IE Field Network module network number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT(0x13)			
ActStationNumber*3	255(0xFF)	Connected station side CC-Link IE Field Network module station number	Target station side module station number	Connected station side CC-Link IE Field Network module station number	Connected station side CC-Link IE Field Network module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOT_NZ2GF_ETB(0x5B)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

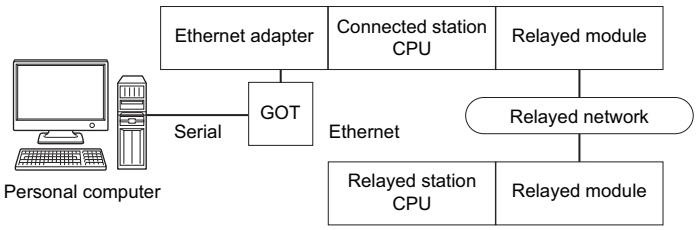
*3 For the property pattern of ○(1), ○(3), or ○(4), specify the parameter value set on the CC-Link IE Field Network module on the connected station side for ActNetworkNumber and ActStationNumber.
For the property pattern of ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Personal computer side port: Serial, GOT1000 side port: Serial, CPU side port: Ethernet adapter/module 1

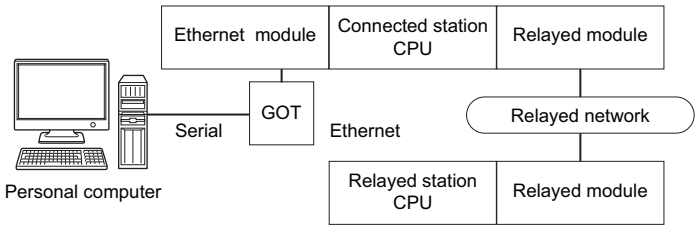
When the connected station is FXCPU

Configuration

Ethernet adapter: FX3U-ENET-ADP



Ethernet module: FX3U-ENET (-L)



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only FX3SCPU(FX3U-ENET-ADP), FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

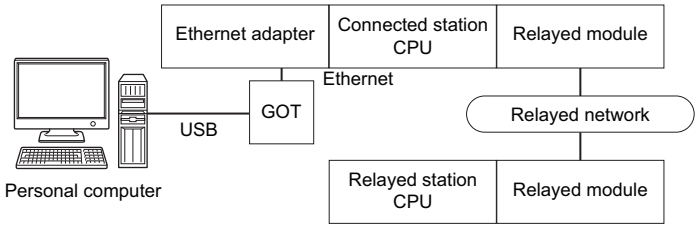
Property	Default value	Property patterns
		○**(1)**
ActBaudRate	19200(BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200
ActControl	8(TRC_DTR_OR_RTS)	Depending on the used cable.
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActHostAddress	1.1.1.1	Host name or IP address of FX3U-ENET-ADP module
		Host name or IP address of FX3U-ENET (-L) module
ActPortNumber	1(PORT_1)	Personal computer side COM port number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_SERIAL
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	FX3U-ENET-ADP: UNIT_GOT_FXETHER
		FX3U-ENET(-L): UNIT_GOT_FXENET

Personal computer side port: USB, GOT2000/1000 side port: USB, CPU side port: Ethernet adapter/module 1

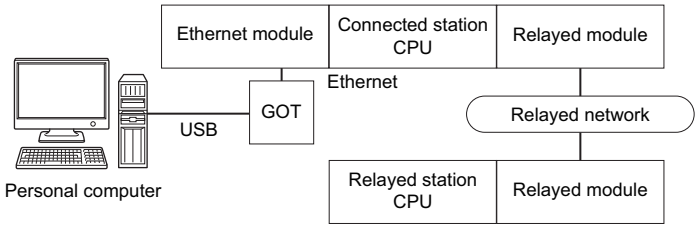
When the connected station is FXCPU

Configuration

Ethernet adapter: FX3U-ENET-ADP



Ethernet module: FX3U-ENET (-L)



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only FX3SCPU(FX3U-ENET-ADP), FX3G(C)CPU and FX3U(C)CPU can be accessed.

Property list

The following table shows the property settings of communication paths.

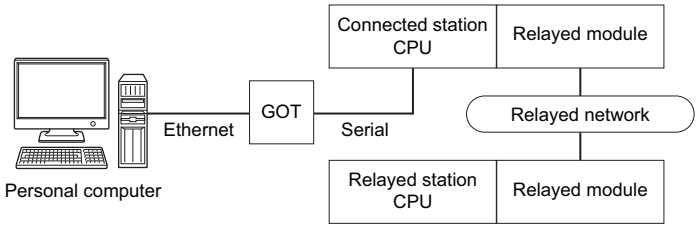
The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○**(1)**
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActHostAddress	1.1.1.1	Host name or IP address of FX3U-ENET-ADP module
		Host name or IP address of FX3U-ENET (-L) module
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_USBGOT
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	FX3U-ENET-ADP: UNIT_GOT_FXETHER
		FX3U-ENET(-L): UNIT_GOT_FXENET

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 1

When the connected station is FX5CPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FX5CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	○(2)*1
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	○(3)

Connected station CPU	Relayed network	Relayed station CPU					
FX5CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only CC-Link IE Field Network of which relayed station is FX5UCPU can be accessed.

Property list

The following table shows the property settings of communication paths.

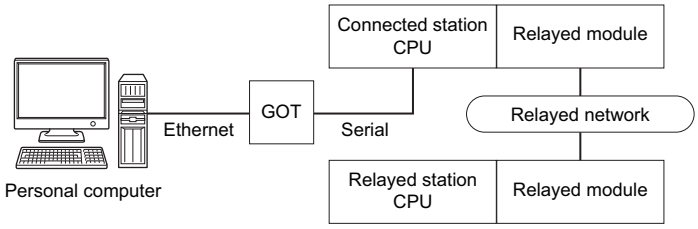
The setting is not necessary for those properties without description.

Property	Default value	Property patterns		
		○(1)	○(2)	○(3)
ActBaudRate	19200(BAUDRATE_19200)	0(0x00)		
ActConnectUnitNumber	0(0x00)	0(0x00)		
ActControl	8(TRC_DTR_OR_RTS)	0(0x00)		
ActCpuTimeOut	0(0x00)	0(0x00)		
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station		
ActDataBits	8(DATABIT_8)	0(0x00)		
ActDestinationIONumber	0(0x00)	0(0x00)		1023(0x3FF)
ActDestinationPortNumber	0(0x00)	GOT port number		
ActDidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActDsidPropertyBit	1(0x01)	1(0x01)		0(0x00)
ActHostAddress	1.1.1.1	Host name or IP address of GOT		
ActIntelligentPreferenceBit	0(0x00)	0(0x00)		1(0x01)
ActIONumber	1023(0x3FF)	1023(0x3FF)		Module number of the connected station
ActMultiDropChannelNumber	0(0x00)	0(0x00)		
ActNetworkNumber	0(0x00)	0(0x00)	Target station side module network number	0(0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1(0x01)		
ActParity	1(ODD_PARITY)	1(0x01)		
ActPassword	Null	Null		
ActPortNumber	1(PORT_1)	0(0x00)		
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)		
ActStopBits	0(STOPBIT_ONE)	0(0x00)		
ActSumCheck	0(NO_SUM_CHECK)	0(0x00)		
ActSourceNetworkNumber	0(0x00)	0(0x00)		
ActSourceStationNumber	0(0x00)	0(0x00)		
ActStationNumber	255(0xFF)	255(0xFF)	Target station side module station number	255(0xFF)
ActTargetSimulator	0(0x00)	0(0x00)		
ActThroughNetworkType	0(0x00)	0(0x00)		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0(0x00)	0(0x00)		Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_FXVCPU(0x2006)		

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 2

When the connected station is QCPU (Q mode) or QCCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)*4	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
QCPU (Q mode)	QCCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)*4	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
		MELSECNET/H	○(2)	○(2)	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*4 For Q24DHCCPU-V, Q24DHCCPU-LS, Q24DHCCPU-VG and Q26DHCCPU-LS, only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

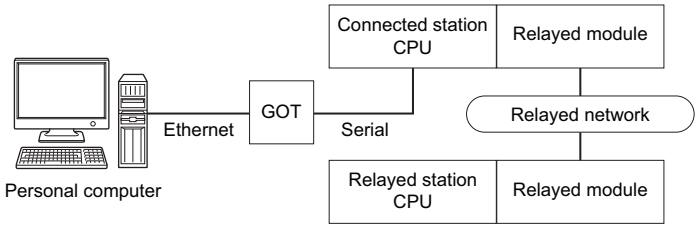
Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	GOT port number			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of GOT			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_QNCPU(0x56)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 3

When the connected station is LCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(4)	○(4)*3	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(2)	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Redundant CPU cannot be accessed.
*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

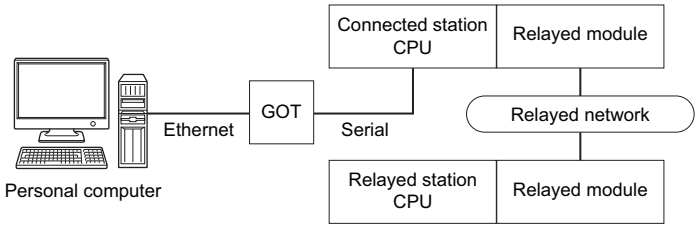
Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	GOT port number			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of GOT			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_LNCPU(0x57)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial 4

When the connected station is FXCPU

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
FXCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
FXCPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

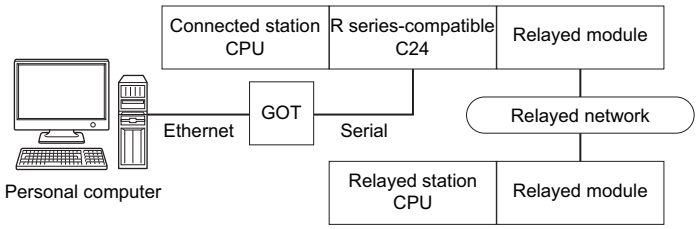
Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActDestinationPortNumber*1	0(0x00)	GOT port number
ActHostAddress	1.1.1.1	Host name or IP address of GOT
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP
ActTimeOut	10000	Any value specified by user in ms units
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_FXCPU

*1 For ActPortNumber, specify the value set to GOT side.

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial communication module 1

When the connected station is R series-compatible C24

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
RCPU	R motion CPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	○(1)*1*3	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	○(4)*2	○(4)	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	○(2)	×	×	×	×
		CC-Link	○(3)	○(3)	×	×	×

Connected station CPU		Relayed network	Relayed station CPU					
RCPU	R motion CPU		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	○(1)*1,*3	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(4)	×	○(4)*2	×	×	×
		MELSECNET/H	○(4)	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○(2)	×	○(2)	×	×	×
		CC-Link	○(3)	×	○(3)	×	×	×

*1 Relayed stations cannot be accessed via R motion CPU.

*2 Since CC-Link IE Controller Network is not supported, RCPU and LCPU relayed by CC-Link IE Controller Network cannot be accessed.

*3 Only CPU No.2 or later in a multiple CPU configuration can be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber*1	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDestinationPortNumber*2	0(0x00)	GOT port number			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of GOT			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station RCPU, QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station RCPU, QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP			
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1			
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)			
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)			
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)			
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)			
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)			
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)			
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)			
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)			
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)			
ActSourceNetworkNumber	0(0x00)	Fixed to 0 (0x00)			
ActSourceStationNumber	0(0x00)	Fixed to 0 (0x00)			
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_RJ71C24			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the value set to GOT side for ActDestinationPortNumber.

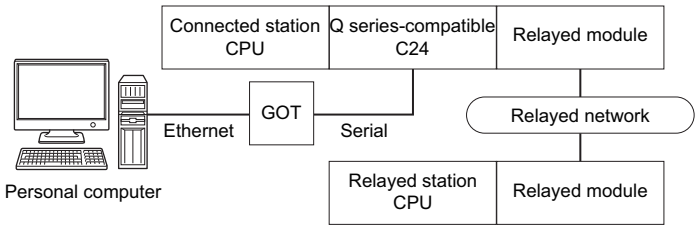
*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

*4 For the property pattern of ○(2), specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial communication module 2

When the connected station is Q series-compatible C24

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	○(1)	CC IE TSN	×	×	×	×	×
		CC IE Control CC IE Field	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station CPU		Relayed network	Relayed station CPU				
QCPU (Q mode)	QCCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	○(1)	CC IE TSN	×	×	×	×	×	×
		CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
		MELSECNET/H	○(2)	○(2)	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○(3)	×	○(3)	×	×	×
		CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

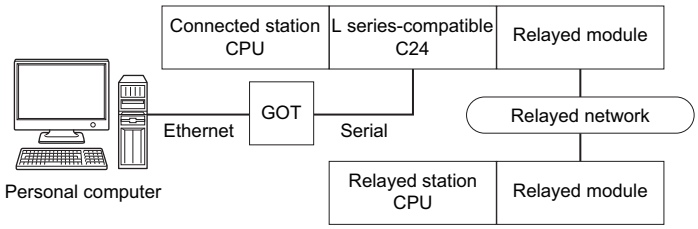
Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActDestinationPortNumber	0(0x00)	GOT port number			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of GOT			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_QNCPU(0x56)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Serial communication module 3

When the connected station is L series-compatible C24

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
LCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Field*2	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
LCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Field*2	○(4)	○(4)*3	○(4)	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(2)	×	○(2)	×	×	×
	CC-Link	○(3)	○(3)	○(3)	×	×	×

*1 Redundant CPU cannot be accessed.
*2 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.
*3 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

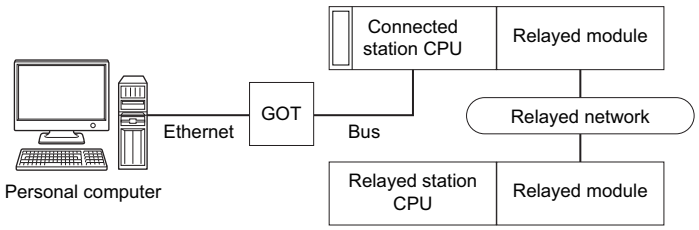
The setting is not necessary for those properties without description.

Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)	Fixed to 0 (0x00)
ActDestinationPortNumber	0(0x00)	GOT port number			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of GOT			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)	Fixed to 0 (0x00)
ActIONumber*1	1023(0x3FF)	Fixed to 1023 (0x3FF)	Connected station side relayed module I/O address	Connected station side relayed module I/O address	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3) For Redundant CPU Target station side Control system: 976 (0x3D0) No specification: 1023 (0x3FF)
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module network number
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_LNCPU(0x57)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.
*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Bus connection

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QCPU (Q mode)		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCPU (Q mode)		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○(3)	×	○(3)	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

Connected station CPU	Relayed network	Relayed station CPU				
QCCPU		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCCPU		QCPU (Q mode)*1	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	○(2)	○(2)*2	○(2)*3	×	×	×
	MELSECNET/H	○(2)	○(2)	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○(4)	○(4)	○(4)	×	×	×

*1 Redundant CPU cannot be accessed.

*2 Since CC-Link IE Field Network is not supported, Q12DCCPU-V (Basic mode) relayed by CC-Link IE Field Network cannot be accessed.

*3 Since CC-Link IE Controller Network is not supported, LCPU relayed by CC-Link IE Controller Network cannot be accessed.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

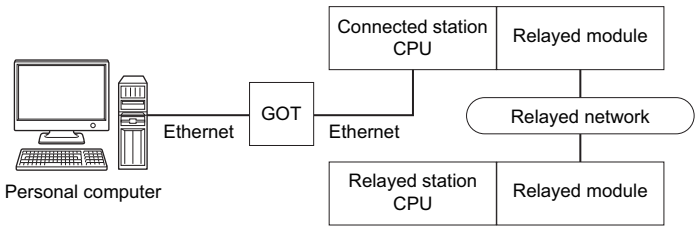
Property	Default value	Property patterns			
		○(1)	○(2)	○(3)	○(4)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station			
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActDestinationPortNumber	0(0x00)	GOT port number			
ActDidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActDsidPropertyBit	1(0x01)	Fixed to 1 (0x01)	Fixed to 1 (0x01)	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActHostAddress	1.1.1.1	Host name or IP address of GOT			
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station QCPU (Q mode), LCPU: 1 (0x01) Other than the above: 0 (0x00)	Target station QCPU (Q mode), QCCPU, LCPU: 1 (0x01) Other than the above: 0 (0x00)
ActIONumber*1	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Target station side For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber*2	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Multi-drop channel number	Fixed to 0 (0x00)
ActNetworkNumber	0(0x00)	Fixed to 0 (0x00)	Target station side module network number	Fixed to 0 (0x00)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)			
ActStationNumber	255(0xFF)	Fixed to 255 (0xFF)	Target station side module station number	Fixed to 255 (0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	MELSECNET/10 is not included.: 0 (0x00) MELSECNET/10 is included.: 1 (0x01)			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)	Fixed to 0 (0x00)	Target station side module station number	Target station side module station number
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_QBUS(0x58)			

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

*2 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Ethernet port

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QCPU (Q mode)		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCPU (Q mode)		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only operates for Qn(U)(J)(P)(D)(E)(V)(H). QnPRHCPU cannot be accessed because it is not supported.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)
ActDestinationPortNumber*1	0(0x00)	GOT port number
ActDidPropertyBit	1(0x01)	Invalidate with 1 (0x01)
ActDsidPropertyBit	1(0x01)	Invalidate with 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of GOT
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Fixed to 0 (0x00)
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)/PROTOCOL_UDPIP(0x08)
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)
ActSourceNetworkNumber*5	0(0x00)	Fixed to 0 (0x00)
ActSourceStationNumber*6	0(0x00)	Fixed to 0 (0x00)
ActStationNumber*4	255(0xFF)	Fixed to 255 (0xFF)
ActThroughNetworkType	0(0x00)	Fixed to 1 (0x01)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_QN_ETHER(0x6F)

*1 Specify the value set on the GOT side.

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

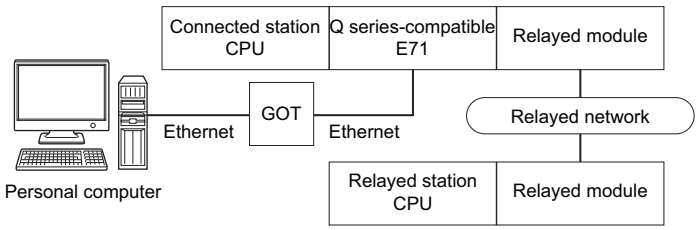
*4 Specify the value set in the parameter setting on the target station side.

*5 When the connected station includes an Ethernet port and the extension setting (network No. station number setting), specify the same network No. as that set for the Ethernet port.
When the connected station does not include an Ethernet port and extension setting (network No. station number setting), specify the same network No. as that of the connected station set in the Ethernet setting of a GOT. For the setting addressing to the own station (1NetworkNumber: 0x00, 1StationNumber: 0xFF), set '0x00' same as '1NetworkNumber'.

*6 Specify the station number of the personal computer-side not to duplicate it with that set for QJ71E71 in the same Ethernet network.

Personal computer side port: Ethernet board, GOT2000/1000 side port: Ethernet port, CPU side port: Q series-compatible E71

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Connected station CPU	Relayed network	Relayed station CPU				
QCPU (Q mode)		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
○(1)*1	CC IE TSN	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

Connected station CPU	Relayed network	Relayed station CPU					
QCPU (Q mode)		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
○(1)*1	CC IE TSN	×	×	×	×	×	×
	CC IE Control CC IE Field	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

*1 Only operates for Qn(U)(J)(P)(D)(E)(V)(H). QnPRHCPU cannot be accessed because it is not supported.

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActBaudRate	19200(BAUDRATE_19200)	Fixed to 0 (0x00)
ActConnectUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActControl	8(TRC_DTR_OR_RTS)	Fixed to 0 (0x00)
ActCpuTimeOut	0(0x00)	Fixed to 0 (0x00)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActDataBits	8(DATABIT_8)	Fixed to 0 (0x00)
ActDestinationIONumber	0(0x00)	Fixed to 0 (0x00)
ActDestinationPortNumber*1	0(0x00)	GOT port number
ActDidPropertyBit	1(0x01)	Invalidate with 1 (0x01)
ActDsidPropertyBit	1(0x01)	Invalidate with 1 (0x01)
ActHostAddress	1.1.1.1	Host name or IP address of GOT
ActIntelligentPreferenceBit	0(0x00)	Fixed to 0 (0x00)
ActIONumber*2	1023(0x3FF)	For single CPU Fixed to 1023 (0x3FF) For multiple CPUs Connected CPU: 1023 (0x3FF) No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2) No. 4: 995 (0x3E3)
ActMultiDropChannelNumber*3	0(0x00)	Fixed to 0 (0x00)
ActNetworkNumber*4	0(0x00)	Target station side module network number
ActPacketType	0x01(PACKET_PLC1)	PACKET_PLC1
ActParity	1(ODD_PARITY)	Fixed to 0 (0x00)
ActPortNumber	1(PORT_1)	Fixed to 0 (0x00)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_TCPIP(0x05)/PROTOCOL_UDPIP(0x08)
ActStopBits	0(STOPBIT_ONE)	Fixed to 0 (0x00)
ActSumCheck	0(NO_SUM_CHECK)	Fixed to 0 (0x00)
ActSourceNetworkNumber*5	0(0x00)	GOT side network number
ActSourceStationNumber*6	0(0x00)	GOT side station number
ActStationNumber*4	255(0xFF)	Target station side module station number
ActThroughNetworkType	0(0x00)	Fixed to 1 (0x01)
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0(0x00)	Fixed to 0 (0x00)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_GOTETHER_QN_ETHER(0x6F)

*1 Specify the value set on the GOT side.

*2 For the I/O address, specify the value of the actual start I/O number divided by 16.

*3 Specify the following value for the channel number to be multi-drop linked.
0: Default channel of module
1: Channel 1
2: Channel 2

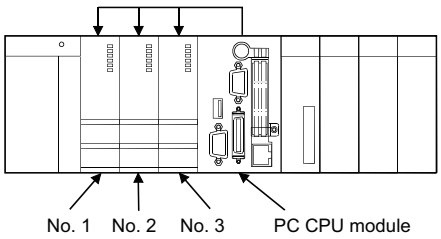
*4 Specify the value set in the parameter setting on the target station side.

*5 Specify the same network No. as the one set for QJ71E71 in the parameter setting of the QJ71E71.

*6 Specify the station number of the personal computer-side not to duplicate it with that set for QJ71E71 in the same Ethernet network.

4.17 Q Series Bus Communication

Configuration



Property patterns

○(n): Accessible ('n' is the property pattern number), ×: Inaccessible

Own Base			
RCPU	**RCCPU**	**R motion CPU**	**LHCPU**
×	×	×	×

Own Base		
QCPU (Q mode)	**QCCPU**	**Q motion CPU**
○(1)	×	○(1)

Property list

The following table shows the property settings of communication paths.

The setting is not necessary for those properties without description.

Property	Default value	Property patterns
		○(1)
ActCpuType	34(CPU_Q02CPU)	CPU type corresponding to the target station
ActIONumber*1	1023(0x3FF)	No. 1: 992 (0x3E0) No. 2: 993 (0x3E1) No. 3: 994 (0x3E2)
ActProtocolType	0x04(PROTOCOL_SERIAL)	PROTOCOL_QBF(0x10)
ActUnitType	0x13(UNIT_QNCPU)	UNIT_QBF(0x1F)

*1 For the I/O address, specify the value of the actual start I/O number divided by 16.

5 FUNCTIONS

This chapter explains the considerations of programming and details of functions.
Read the considerations of programming described in Section 5.1 before creating a program.

Types of functions

Functions for .NET control and functions for ACT control are the types of functions.
An applicable interface and programming language are different according to the function.

Control	Interface	Programming language	Reference
ACT control	Dispatch interface (Recommended)	VBA Visual C++ .NET(MFC) VBScript Visual Basic .NET Visual C++ .NET Visual C# .NET	Page 363 Details of Functions (For ACT Control)
	Custom interface	Visual C++ .NET(MFC)	
.NET control	Dispatch interface	Visual Basic .NET Visual C++ .NET Visual C# .NET	Page 446 Details of Functions (For .NET Control)

Interface types

Dispatch interface and custom interface can be used for the functions for ACT control.

Interface	Description	Characteristic
Dispatch interface	Paste controls on the form of Visual Basic .NET, Visual C++ .NET, Visual C# .NET, or VBA (Excel, Access) to use the controls.	Programming to acquire the interface and to create objects is not necessary. (Programs to create objects without pasting controls on the form can be created.) Programming with dispatch interface is easier than programming with custom interface
Custom interface	Acquire the interface using the interface acquisition function when using controls. Use the object creation function to create objects.	Programs of custom interface are complicated as compared to those of dispatch interface, however the object creation/extinction can be managed in detail.

5.1 Programming Considerations

This section explains the considerations of programming.

Considerations of multi-thread programming

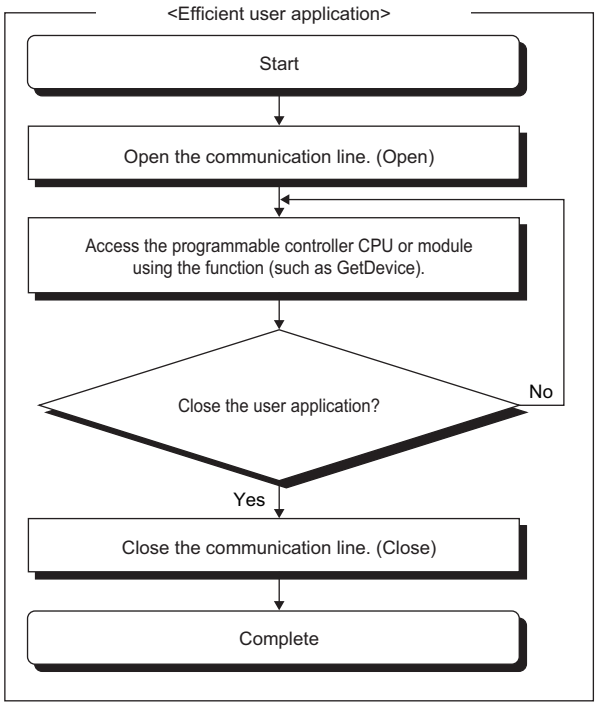
When performing multi-thread programming, follow the rules of COM and ActiveX controls.
For details, refer to the rules and reference books of COM and ActiveX controls.

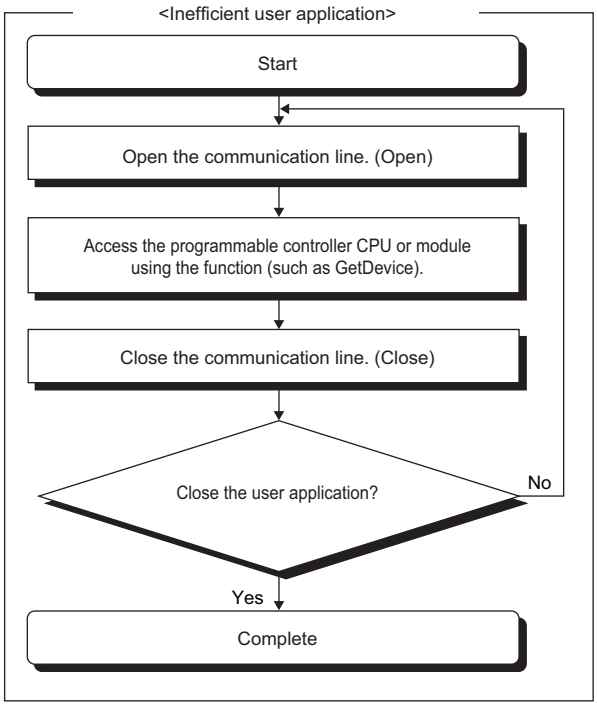
Point

- The ActiveX controls used on MX Component are those of the STA model.
- When passing the interface pointer to another apartment, the interface pointer needs to be marshaled. Synchronize programs using CoMarshalInterThreadInterfaceInStream or CoGetInterfaceAndReleaseStream of the COM function.

Open function (opening communication line)

The processing may take long time due to the Open function processes: establishment of communication paths, obtaining programmable controller internal information, or the like.
A user needs to create efficient programs in order to improve the speed performance of user applications.
The following figures are flows for creating efficient and inefficient user programs.





Considerations for using RnSFCPU

The following functions cannot be used for RnSFCPU.

Function Name	Function
Connect	Connect telephone line.
Disconnect	Disconnect a telephone line

In case of safety mode, the following functions cannot be used for the RnSFCPU safety device.

Function Name	Function
WriteDeviceBlock	Write devices in bulk.
WriteDeviceRandom	Write devices randomly.
SetDevice	Set device data.
WriteDeviceBlock2	Write devices in bulk.
WriteDeviceRandom2	Write devices randomly.
SetDevice2	Set device data.
WriteBuffer	Write data to buffer memory.

Point

If any of these functions is used, the error code "0x010A42A5" (Operation that can not be carried out in safety mode)will be returned.

Considerations for using QSCPU

The following functions cannot be used for QSCPU.

Function Name	Function
WriteDeviceBlock	Write devices in bulk.
WriteDeviceRandom	Write devices randomly.
SetDevice	Set device data.
WriteBuffer	Write data to buffer memory.
SetClockData	Write clock data.
SetCpuStatus	Remote control
WriteDeviceBlock2	Write devices in bulk.
WriteDeviceRandom2	Write devices randomly.
SetDevice2	Set device data.

Point

If any of these functions is used, the error code "0x010A42A0" (mismatched CPU access password) will be returned.

Considerations for using inverter/robot controller

The function of .NET control cannot be used during performing inverter communication/robot controller communication.

Point

If any of these functions is used, the error code "0xF0000007" (function non-support error) will be returned.

Differences between LONG type functions and SHORT type/INT type functions

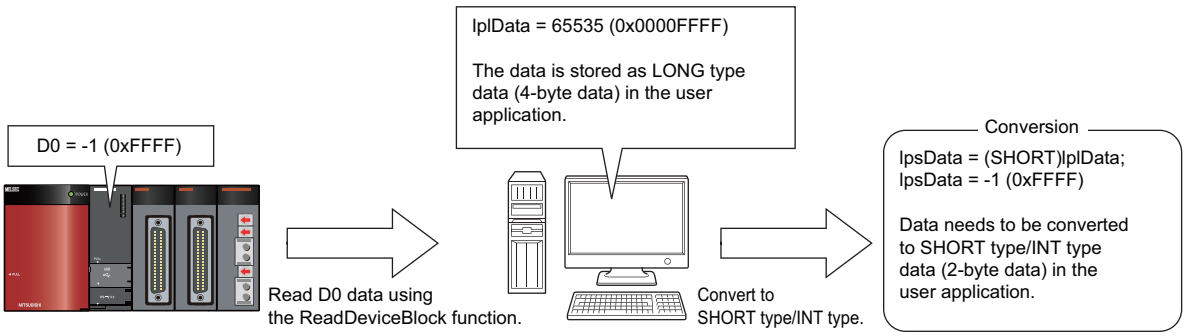
LONG type functions and SHORT type/INT type functions are the functions of MX Component to "read devices in bulk", "write devices in bulk", "read devices randomly", "write devices randomly", "set device data", and "acquire device data".
The following describes the differences between the LONG type functions and SHORT type/INT type functions.

■LONG type function

When writing/reading a negative device value using the LONG type function, the LONG type data needs to be converted to the SHORT type/INT type data in the user application.
Write/read negative device values using the SHORT type/INT type functions described in the section (b).
☞ Page 362 SHORT type/INT type function

Target function	Reference
ReadDeviceBlock	Page 366 ReadDeviceBlock (Reading devices in bulk)
WriteDeviceBlock	Page 369 WriteDeviceBlock (Writing devices in bulk)
ReadDeviceRandom	Page 373 ReadDeviceRandom (Reading devices randomly)
WriteDeviceRandom	Page 373 ReadDeviceRandom (Reading devices randomly)
SetDevice	Page 379 SetDevice (Set device data)
GetDevice	Page 381 GetDevice (Acquiring device data)

Ex.
When reading a device data with a negative value using the ReadDeviceBlock function



■SHORT type/INT type function

When reading/writing a negative device value using the SHORT type/INT type function, the device value can be used as it is without converting it.

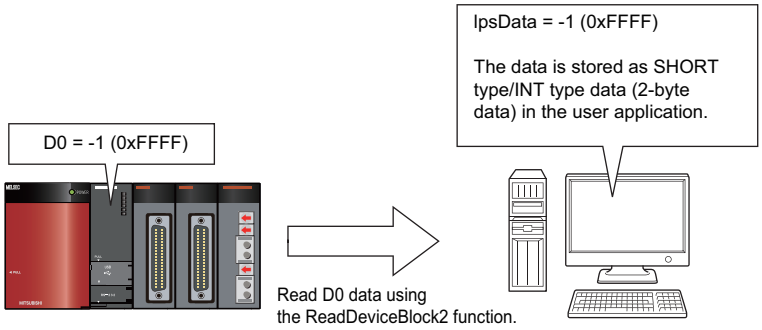
When reading/writing double word devices, use any of the LONG type functions.

☞ Page 361 LONG type function

Target function	Reference
ReadDeviceBlock2	Page 415 ReadDeviceBlock2 (Reading devices in bulk)
WriteDeviceBlock2	Page 418 WriteDeviceBlock2 (Writing devices in bulk)
ReadDeviceRandom2	Page 421 ReadDeviceRandom2 (Reading devices randomly)
WriteDeviceRandom2	Page 424 WriteDeviceRandom2 (Writing devices randomly)
SetDevice2	Page 427 SetDevice2 (Set device data)
GetDevice2	Page 430 GetDevice2 (Acquiring device data)

Ex.

When reading a device data with a negative value using the ReadDeviceBlock2 function



5.2 Details of Functions (For ACT Control)

Open (Opening communication line)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

Feature

Open the communication line.

Format (Dispatch interface)

■Visual C++ .NET(MFC), VBA

lRet = object.Open()

Long	lRet	Returned value	Output

■VBScript

varRet = object.Open()

VARIANT	varRet	Returned value (LONG type)	Output

■Visual Basic .NET

lRet = object.Open()

Integer	lRet	Returned value	Output

■Visual C++ .NET

iRet = object.Open()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object.Open()

int	iRet	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.Open(*lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

Lines are connected according to the set value of the Open function property.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When modem communication is used, the Open function cannot be executed without the execution of the Connect function.
- If the Open function property is changed after the completion of the Open function, the setting of communication target is not changed.
  To change the communication setting, close the communication line, set the setting of communication target, and open the communication line again.
- Even when a CPU type which is different from the CPU used for the communication is set to the ActCpuType property, the Open function may be completed normally.
  In such a case, the connection range, usable method, or device range may be narrowed.
  When executing the Open function, set the correct CPU type to the ActCpuType property.

Close (Closing communication line)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

Feature

Close the communication line.

Format (Dispatch interface)

■Visual C++ .NET(MFC), VBA

lRet = object.Close()

Long	lRet	Returned value	Output

■VBScript

varRet = object.Close()

VARIANT	varRet	Returned value (LONG type)	Output

■Visual Basic .NET

lRet = object.Close()

Integer	lRet	Returned value	Output

■Visual C++ .NET

iRet = object.Close()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object.Close()

int	iRet	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.Close(*lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

The line connected using the Open function is closed.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

ReadDeviceBlock (Reading devices in bulk)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Feature

Read devices in bulk.

Format (Dispatch interface)

■VBA

lRet = object.ReadDeviceBlock(szDevice, lSize, lData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Long	lData(n)	Read device value	Output

■Visual C++ .NET(MFC)

lRet = object.ReadDeviceBlock(szDevice, lSize, *lplData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Long	*lplData	Read device value	Output

■VBScript

varRet = object.ReadDeviceBlock(varDevice, varSize, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varSize	Number of read points (LONG type)	Input
VARIANT	lpvarData	Read device value (LONG array type)	Output

■Visual Basic .NET

lRet = object.ReadDeviceBlock(szDevice, iSize, iData(0))

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iSize	Number of read points	Input
Integer	iData(n)	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceBlock(*szDevice, iSize, *iplData)

int	iRet	Returned value	Output
String	*szDevice	Device name	Input
int	iSize	Number of read points	Input
int	*iplData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceBlock(szDevice, iSize, out iData[0])

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iSize	Number of read points	Input
int[n]	iData	Read device value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadDeviceBlock(szDevice, lSize, *lplData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of read points	Input
LONG	*lplData	Read device value	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The device values for the amount specified for lSize (varSize or iSize) are read in bulk starting from the device specified for szDevice (varDevice).
- The read device values are stored in lData (lplData, lpvarData, or iData).
- For lData (lplData, lpvarData, or iData), reserve arrays for more than the amount specified for lSize (varSize or iSize).

How to specify devices

The following describes how to specify devices.

■When bit device is specified

Example: Read 3 points (3 words) of data in 16-point unit starting from M0.

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	M0 to M15*1
	M16 to M31*1
	M32 to M47*1

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Read 3 points of data starting from D0.

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0
	D1
	D2

■When double-word device is specified

Example: Read 3 points from LTN0

Upper 2 bytes	Lower 2 bytes
H of LTN0	L of LTN0
H of LTN1	L of LTN1
H of LTN2	L of LTN2

■When CN200 and later devices of FXCPU are specified

Example: Read 6 points of data starting from CN200.

For CN200 and later devices of FXCPU, 2 words are read for each 2 points. Reading only 1 point of data will result in an error.

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	L of CN200
	H of CN200
	L of CN201
	H of CN201
	L of CN202
	H of CN202

■When FD device is specified (4-word device)

Example: Read 6 points of data starting from FD0.

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	LL of FD0
	LH of FD0
	HL of FD0
	HH of FD0
	LL of FD1
	LH of FD1

■8-bit devices assigned to gateway devices

Example: Read 4 points of data starting from EG0.

(When 8-bit devices (from E0000 to E0007 of SHARP programmable controller) are assigned from EG0 to EG3.)

Upper 2 bytes	Lower 2 bytes	
Not used (0 is stored.)	EG0	
	(E0001)	(E0000)
	EG1	
	(E0003)	(E0002)
	EG2	
	(E0005)	(E0004)
	EG3	
	(E0007)	(E0006)

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points that can be specified for lSize (varSize or iSize) should be the value which satisfies the following condition.
  Read start device number + Number of read points ≤ Last device number
- When specifying bit devices, a multiple of 16 can be specified as a device number.
- For lData (lplData, lpvarData, or iData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.

WriteDeviceBlock (Writing devices in bulk)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Write devices in bulk.

Format (Dispatch interface)

■VBA

lRet = object.WriteDeviceBlock(szDevice, lSize, lData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Long	lData(n)	Device value to be written	Input

■Visual C++ .NET(MFC)

lRet = object.WriteDeviceBlock(szDevice, lSize, *lplData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Long	*lplData	Device value to be written	Input

■VBScript

varRet = object.WriteDeviceBlock(varDevice, varSize, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varSize	Number of write points (LONG type)	Input
VARIANT	varData	Device value to be written (LONG array type)	Input

■Visual Basic .NET

lRet = object.WriteDeviceBlock(szDevice, iSize, iData(0))

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iSize	Number of write points	Input
Integer	iData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceBlock(*szDevice, iSize, *iplData)

int	iRet	Returned value	Output
String	*szDevice	Device name	Input
int	iSize	Number of write points	Input
int	*iplData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceBlock(szDevice, iSize, ref iData[0])

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iSize	Number of write points	Input
int[n]	iData	Device value to be written	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.WriteDeviceBlock(szDevice, lSize, *lplData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of write points	Input
LONG	*lplData	Device value to be written	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The device values of lSize (varSize or iSize) are written in bulk starting from the device specified for szDevice (varDevice).
- The device values to be written are stored in lData (lplData, varData, or iData).
- For lData (lplData, varData, or iData), reserve arrays for more than the amount specified for lSize (varSize or iSize).

How to specify devices

The following describes how to specify devices.

■When bit device is specified

Example: Write 3 points (3 words) of data in 16-point unit starting from M0.

Upper 2 bytes	Lower 2 bytes
Not used	M0 to M15*1
	M16 to M31*1
	M32 to M47*1

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Write 3 points of data starting from D0.

Upper 2 bytes	Lower 2 bytes
Not used	D0
	D1
	D2

■When double-word device is specified

Example: Write 3 points to LTN0

Upper 2 bytes	Lower 2 bytes
H of LTN0	L of LTN0
H of LTN1	L of LTN1
H of LTN2	L of LTN2

■When FXCPU devices of CN200 and later are specified

Example: Write 6 points of data starting from CN200.

For CN200 and later devices of FXCPU, 2 words are written for each 2 points. Writing only 1 point of data will result in an error.

Upper 2 bytes	Lower 2 bytes
Not used	L of CN200
	H of CN200
	L of CN201
	H of CN201
	L of CN202
	H of CN202

■When FD device is specified (4-word device)

Example: Write 6 points of data starting from FD0.

Upper 2 bytes	Lower 2 bytes
Not used	LL of FD0
	LH of FD0
	HL of FD0
	HH of FD0
	LL of FD1
	LH of FD1

■8-bit devices assigned to gateway devices

Example: Write 4 points of data starting from EG0.

(When 8-bit devices (from E0000 to E0007 of SHARP programmable controller) are assigned from EG0 to EG3.)

Upper 2 bytes	Lower 2 bytes	
Not used	EG0	
	(E0001)	(E0000)
	EG1	
	(E0003)	(E0002)
	EG2	
	(E0005)	(E0004)
	EG3	
	(E0007)	(E0006)

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points that can be specified for lSize(varSize or iSize) should be the value which satisfies the following condition.
  Write starting device number + Number of write points ≤ Last device number
- When specifying bit devices, a multiple of 16 can be specified as a device number.
- For lData (lplData, varData, or iData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- WriteDeviceBlock or WriteDeviceBlock2 cannot be used for writing long timer device (LT) and retentive long timer device (LST).
  Use WriteDeviceRandom, WriteDeviceRandom2, SetDevice or SetDevice2.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

ReadDeviceRandom (Reading devices randomly)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

Feature

Read devices randomly.

Read monitor types of inverters/robot controllers randomly.

Format (Dispatch interface)

■VBA

lRet = object.ReadDeviceRandom(szDeviceList, lSize, lData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name/monitor type	Input
Long	lSize	Number of read points	Input
Long	lData(n)	Read device value	Output

■Visual C++ .NET(MFC)

lRet = object.ReadDeviceRandom(szDeviceList, lSize,*lplData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name/monitor type	Input
Long	lSize	Number of read points	Input
Long	*lplData	Read device value	Output

■VBScript

varRet = object.ReadDeviceRandom(varDeviceList, varSize,lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDeviceList	Device name/monitor type (character string type)	Input
VARIANT	varSize	Number of read points (LONG type)	Input
VARIANT	lpvarData	Read device value (LONG array type)	Output

■Visual Basic .NET

lRet = object.ReadDeviceRandom(szDeviceList, iSize, iData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Device name/monitor type	Input
Integer	iSize	Number of read points	Input
Integer	iData(n)	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceRandom(*szDeviceList, iSize, *iplData)

int	iRet	Returned value	Output
String	*szDeviceList	Device name/monitor type	Input
int	iSize	Number of read points	Input
int	*iplData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceRandom(szDevice, iSize, out iData[0])

int	iRet	Returned value	Output
String	szDevice	Device name/monitor type	Input
int	iSize	Number of read points	Input
int[n]	iData	Read device value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadDeviceRandom(szDevice, lSize, *lplData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name/monitor type	Input
LONG	lSize	Number of read points	Input
LONG	*lplData	Read device value	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- Data of a device group/monitor type group for the size of lSize (varSize or iSize) specified for szDeviceList (varDeviceList or szDevice) are read.
- The read device values are stored in lData (lplData, lpvarData, or iData).
- Use the line feed symbol to separate the character string specified for the device list. The line feed symbol is not necessary to be suffixed to the last device.

  Example:

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "D1" & vbLf & "D2"
When using Visual C++ .NET:	D0\nD1\nD2
When using Visual C# .NET:	D0\nD1\nD2

- For lData (lplData, lpvarData, or iData), reserve arrays for more than the amount specified for lSize (varSize or iSize).
- For the items (monitor types) that can be monitored, refer to the following manual.

  MX Component Version 4 Operating Manual

How to specify devices

The following describes how to specify devices.

■When devices are specified as follows (Number of points: 3 points)

When using Visual Basic .NET ,VBA, VBScript:	"M0" & vbLf & "D0" & vbLf & "K8M0"
When using Visual C++ .NET:	M0\nD0\nK8M0
When using Visual C# .NET:	M0\nD0\nK8M0

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	M0
	D0
M16 to M31*1	M0 to M15*1

*1 Devices are stored from the lower bit in the order of device number.

■When double word devices are specified

When using Visual Basic .NET, VBA, VBScript:	"LTN0" & vbLf & "LTN1" & vbLf & "LTN2"
When using Visual C++ .NET:	LTN0\nLTN1\nLTN2
When using Visual C# .NET:	LTN0\nLTN1\nLTN2

Upper 2 bytes	Lower 2 bytes
H of LTN0	L of LTN0
H of LTN1	L of LTN1
H of LTN2	L of LTN2

■When devices including CN200 and later of FXCPU are specified (Total number of points: 3 points)

For CN200 and later devices of FXCPU, 2 words are read for each point when reading devices randomly.

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "CN200" & vbLf & "D1"
When using Visual C++ .NET:	D0\nCN200\nD1
When using Visual C# .NET:	D0\nCN200\nD1

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0
H of CN200	L of CN200
Not used (0 is stored.)	D1

■When devices including FD are specified (Total number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "FD0" & vbLf & "D1"
When using Visual C++ .NET: D0\nFD0\nD1
When using Visual C# .NET: D0\nFD0\nD1

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0
	LL of FD0
	D1

■When devices including EG are specified (Total number of points: 3 points)

The following is the example when 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0.

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "EG0" & vbLf & "D1"
When using Visual C++ .NET: D0\nEG0\nD1
When using Visual C# .NET: D0\nEG0\nD1

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0
	EG0
	(E0001)
	D1

■When monitor types (1, 2, and 5) of inverter are specified (Total number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript: "1" & vbLf &"2" & vbLf &"5"
When using Visual C++ .NET: 1\n2\n5
When using Visual C# .NET: 1\n2\n5

Upper 2 bytes	Lower 2 bytes
H of 1	L of 1
H of 2	L of 2
H of 5	L of 5

■When monitor types (223.102.A, and 223.103.B) of robot controller are specified (Total number of points: 2 points)

Format: (Request ID).(Data type).(Argument)

When using Visual Basic .NET, VBA, VBScript: "223.102.A" & vbLf &"223.103.B"
When using Visual C++ .NET: 223.102.A\n223.103.B
When using Visual C# .NET: 223.102.A\n223.103.B

Upper 2 bytes	Lower 2 bytes
H of 223.102.A	L of 223.102.A
H of 223.103.B	L of 223.103.B

Returned value

Normal termination: 0 is returned.
Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points that can be specified for lSize (varSize or iSize) is 0x7FFFFFFF points.
- For lData (lplData, lpvarData, or iData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.

WriteDeviceRandom (Writing devices randomly)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Feature

Write devices randomly.

Format (Dispatch interface)

■VBA

lRet = object.WriteDeviceRandom(szDeviceList, lSize,lData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Long	lData(n)	Device value to be written	Input

■Visual C++.NET(MFC)

lRet = object.WriteDeviceRandom(szDeviceList, lSize,*lplData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Long	*lplData	Device value to be written	Input

■VBScript

varRet = object.WriteDeviceRandom(varDeviceList, varSize,varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDeviceList	Device name (character string type)	Input
VARIANT	varSize	Number of write points (LONG type)	Input
VARIANT	varData	Device value to be written (LONG array type)	Input

■Visual Basic .NET

lRet = object.WriteDeviceRandom(szDeviceList, iSize, iData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Integer	iSize	Number of write points	Input
Integer	iData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceRandom(*szDeviceList, iSize, *iplData)

int	iRet	Returned value	Output
String	*szDeviceList	Device name	Input
int	iSize	Number of write points	Input
int	*iplData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceRandom(szDevice, iSize, ref iData[0])

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iSize	Number of write points	Input
int[n]	iData	Device value to be written	Input

Format (Custom interface)

■Visual C++.NET(MFC)

hResult = object.WriteDeviceRandom(szDeviceList, lSize, *lplData,*lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Device name	Input
LONG	lSize	Number of write points	Input
LONG	*lplData	Device value to be written	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- Data of a device group for the size of lSize (varSize or iSize) specified for szDeviceList (varDeviceList or szDevice) are written.
- The device values to be written are stored in lData (lplData, varData, or iData).
- Use the line feed symbol to separate the character string specified for the device list. The line feed symbol is not necessary to be suffixed to the last device.

  Example:

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "D1" & vbLf & "D2"
When using Visual C++ .NET:	D0\nD1\nD2
When using Visual C# .NET:	D0\nD1\nD2

- For lData (lplData, varData, or iData), reserve arrays for more than the amount specified for lSize (varSize or iSize).

How to specify devices

The following describes how to specify devices.

■When devices are specified as follows (Number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript:	"M0" & vbLf & "D0" & vbLf & "K8M0"
When using Visual C++ .NET:	M0\nD0\nK8M0
When using Visual C# .NET:	M0\nD0\nK8M0

Upper 2 bytes	Lower 2 bytes
Not used	M0
	D0
M16 to M31*1	M0 to M15*1

*1 Devices are stored from the lower bit in the order of device number.

■When double word devices are specified

When using Visual Basic .NET, VBA, VBScript:	"LTN0" & vbLf & "LTN1" & vbLf & "LTN2"
When using Visual C++ .NET:	LTN0\nLTN1\nLTN2
When using Visual C# .NET:	LTN0\nLTN1\nLTN2

Upper 2 bytes	Lower 2 bytes
H of LTN0	L of LTN0
H of LTN1	L of LTN1
H of LTN2	L of LTN2

■When devices including CN200 and later of FXCPU are specified (Total number of points: 3 points)

For CN200 or later of FXCPU, 2 words are written for each point when writing devices randomly.

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "CN200" & vbLf & "D1"
When using Visual C++ .NET:	D0\nCN200\nD1
When using Visual C# .NET:	D0\nCN200\nD1

Upper 2 bytes	Lower 2 bytes
Not used	D0
H of CN200	L of CN200
Not used	D1

■When devices including FD are specified (Total number of points: 3 points)

Upper 2 bytes	Lower 2 bytes
Not used	D0
	LL of FD0
	D1

■When devices including EG are specified (Total number of points: 3 points)

The following is the example when 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0.

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "EG0" & vbLf & "D1"

When using Visual C++ .NET: D0\nEG0\nD1

When using Visual C# .NET: D0\nEG0\nD1

Upper 2 bytes	Lower 2 bytes	
Not used	D0	
	EG0	
	(E0001)	(E0000)
	D1	

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points that can be specified for lSize (varSize or iSize) is 0x7FFFFFFF points.
- For lData (lplData, varData, or iData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- If a Q motion CPU is accessed, an error is returned.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

SetDevice (Set device data)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Set one point of device.

Format (Dispatch interface)

■VBA

lRet = object.SetDevice(szDevice, lData)

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lData	Set data	Input

■Visual C++ .NET(MFC)

lRet = object.SetDevice(szDevice, lData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lData	Set data	Input

■VBScript

varRet = object.SetDevice(varDevice, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varData	Set data (LONG type)	Input

■Visual Basic .NET

lRet = object.SetDevice(szDevice, iData)

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iData	Set data	Input

■Visual C++ .NET

iRet = object.SetDevice(*szDevice, iData)

int	iRet	Returned value	Output
String	*szDevice	Device name	Input
int	iData	Set data	Input

■Visual C# .NET

iRet = object.SetDevice(szDevice, iData)

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iData	Set data	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.SetDevice(szDevice, lData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lData	Set data	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- One point of device specified for szDevice (varDevice) is specified using lData (varData or iData).
- When specifying bit devices, the least significant bit of the lData value (varData value or iData value) is valid.

How to specify devices

The following describes how to specify devices.

■When bit device is specified

Example: M0

Upper 2 bytes	Lower 2 bytes
Not used	M0

■When word device is specified

Example: D0

Upper 2 bytes	Lower 2 bytes
Not used	D0

■When double-word device is specified

Example: LTN0

Upper 2 bytes	Lower 2 bytes
H of LTN0	L of LTN0

■When double word device is specified (Digit specification)

Example: K8M0

Upper 2 bytes	Lower 2 bytes
M16 to M31*1	M0 to M15*1

*1 Devices are stored from the lower bit in the order of device number.

■When CN200 or later device of FXCPU is specified

Example: CN200

Upper 2 bytes	Lower 2 bytes
H of CN200	L of CN200

■When gateway device is specified

Example: When 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0

Upper 2 bytes	Lower 2 bytes	
Not used	EG0	
	(E0001)	(E0000)

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

GetDevice (Acquiring device data)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

Feature

Acquire one point of device.

Acquire one point monitor type data of inverter/robot controller.

Format (Dispatch interface)

■VBA

lRet = object.GetDevice(szDevice, lData)

Long	lRet	Returned value	Output
String	szDevice	Device name/monitor type	Input
Long	lData	Acquired data	Output

■Visual C++ .NET(MFC)

lRet = object.GetDevice(szDevice, *lplData)

Long	lRet	Returned value	Output
CString	szDevice	Device name/monitor type	Input
Long	*lplData	Acquired data	Output

■VBScript

varRet = object.GetDevice(varDevice, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name/monitor type (character string type)	Input
VARIANT	lpvarData	Acquired data (LONG type)	Output

■Visual Basic .NET

lRet = object.GetDevice(szDevice, iData)

Integer	lRet	Returned value	Output
String	szDevice	Device name/monitor type	Input
Integer	iData	Acquired data	Output

■Visual C++ .NET

iRet = object.GetDevice(*szDevice, *iplData)

int	iRet	Returned value	Output
String	*szDevice	Device name/monitor type	Input
int	*iplData	Acquired data	Output

■Visual C# .NET

iRet = object.GetDevice(szDevice, out iData)

int	iRet	Returned value	Output
String	szDevice	Device name/monitor type	Input
int	iData	Acquired data	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.GetDevice(szDevice, *lplData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name/monitor type	Input
LONG	*lplData	Acquired data	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

One point of device data specified for szDevice (varDevice) is stored in lData (lplData, lpvarData, or iData).

For the items (monitor types) that can be monitored, refer to the following manual.

MX Component Version 4 Operating Manual

How to specify devices

The following describes how to specify devices/monitor type.

■When bit device is specified

Example: M0

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	M0

■When word device is specified

Example: D0

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0

■When double-word device is specified

Example: LTN0

Upper 2 bytes	Lower 2 bytes
H of LTN0	L of LTN0

■When double-word device is specified (Digit specification)

Example: K8M0

Upper 2 bytes	Lower 2 bytes
M16 to M31*1	M0 to M15*1

*1 Devices are stored from the lower bit in the order of device number.

■When CN200 and later devices of FXCPU are specified

Example: CN200

Upper 2 bytes	Lower 2 bytes
H of CN200	L of CN200

■When gateway device is specified

Example: When 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0

Upper 2 bytes	Lower 2 bytes	
Not used (0 is stored.)	EG0	
	(E0001)	(E0000)

■When monitor type of inverter is specified

Example: 2

Upper 2 bytes	Lower 2 bytes
H of 1	L of 1

■When monitor type of robot controller is specified

Format: (Request ID).(Data type).(Argument)

Example: 223.102.A

Upper 2 bytes	Lower 2 bytes
H of 223.102.A	L of 223.102.A

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

ReadBuffer (Reading data from buffer memory)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Applicable communication paths

The following table shows the applicable communication paths.

○: Applicable, ×: Not applicable

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
Serial communication	Connected module: R series-compatible C24	UNIT_RJ71C24	PROTOCOL_SERIAL	○
	Connected module: Q series-compatible C24	UNIT_QJ71C24		○
	Connected module: L series-compatible C24	UNIT_LJ71C24		○
	Connected module: FX extended port	UNIT_FX485BD		×
Ethernet communication		UNIT_RJ71EN71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	○
		UNIT_RJ71EN71_DIRECT	PROTOCOL_UDPIP	
		UNIT_QJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_LJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXVETHER	PROTOCOL_TCPIP	×
		UNIT_FXVETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_LNETHER	PROTOCOL_TCPIP	○
		UNIT_LNETHER, UNIT_LNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_QNETHER	PROTOCOL_TCPIP	
		UNIT_QNETHER, UNIT_QNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_RJ71GN11	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_NZ2GF_ETB	PROTOCOL_TCPIP	
		UNIT_NZ2GF_ETB, UNIT_NZ2GF_ETB_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXETHER	PROTOCOL_TCPIP	
		UNIT_FXETHER_DIRECT	PROTOCOL_UDPIP	
CPU COM communication	Connection target CPU: FX5CPU	UNIT_FXVCPU	PROTOCOL_SERIAL	×
	Connection target CPU: QCPU (Q mode)	UNIT_QNCPU		○
	Connection target CPU: LCPU	UNIT_LNCPU		○
	Connection target CPU: Q motion CPU	UNIT_QNMOTION		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○*1
USB communication	Connection target CPU: RCPU	UNIT_RUSB	PROTOCOL_USB	○
	Connection target CPU: LHCPU	UNIT_LHUSB		○
	Connection target CPU: QCPU (Q mode)	UNIT_QNUSB		○
	Connection target CPU: LCPU	UNIT_LNUSB		○
	Connection target CPU: QSCPU	UNIT_QSUSB		○
	Connection target CPU: Q motion CPU	UNIT_QNMOTIONUSB		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
MELSECNET/H communication		UNIT_MNETHBOARD	PROTOCOL_MNETH	○*2
CC-Link IE Controller Network communication		UNIT_MNETGBOARD	PROTOCOL_MNETG	
CC-Link IE Field Network communication		UNIT_CCIEFBOARD	PROTOCOL_CCIEF	
CC-Link communication		UNIT_CCLINKBOARD	PROTOCOL_CCLINK	
CC-Link G4 communication		UNIT_G4QCPU	PROTOCOL_SERIAL	○
GX Simulator communication		UNIT_SIMULATOR	PROTOCOL_SHAREDMEMORY	○*3
GX Simulator2 communication		UNIT_SIMULATOR2	—	○
GX Simulator3 communication (RCPU)		UNIT_SIMULATOR3		×
GX Simulator3 communication (FX5CPU)				
MT Simulator2 communication		UNIT_SIMULATOR2	—	×
Modem communication	Connected module: Q series-compatible C24	UNIT_QJ71C24	PROTOCOL_SERIALMODEM	○
	Connected module: L series-compatible C24	UNIT_LJ71C24	PROTOCOL_SERIALMODEM	
	Connection target CPU: FXCPU	UNIT_FXCPU	PROTOCOL_TEL	○*1
Gateway function communication		UNIT_A900GOT	PROTOCOL_UDPIP	×
GOT transparent function communication		UNIT_RJ71C24, UNIT_QNCPU, UNIT_LNCPU	PROTOCOL_SERIAL, PROTOCOL_USBGOT	○
		UNIT_FXCPU		○*1
		UNIT_QJ71C24, UNIT_LJ71C24, UNIT_GOT_RJ71EN71, UNIT_GOT_QJ71E71, UNIT_GOT_LJ71E71, UNIT_GOT_RETHER, UNIT_GOT_QNETHER, UNIT_GOT_LNETHER, UNIT_A900GOT, UNIT_GOT_NZ2GF_ETB, UNIT_GOT_FXETHER, UNIT_GOT_FXENET		○
		UNIT_GOTETHER_RJ71C24, UNIT_GOTETHER_QNCPU, UNIT_GOTETHER_LNCPU	PROTOCOL_TCPIP	○
		UNIT_GOTETHER_FXCPU		○*1
		UNIT_GOTETHER_QBUS		○
		UNIT_GOTETHER_QN_ETHER		○
Q series bus communication		UNIT_QBF	PROTOCOL_QBF	○
Inverter communication		-	COMM_RS232C, COMM_USB	×

*1 When the CPU is other than FX1N, FX1NC, FX2N, FX2NC, FX3U, FX3UC, FX3G and FX3GC an error is returned.

*2 An error is returned when the own board is accessed.

*3 When the CPU is other than FX0N, FX1N, FX1NC, FXU, FX2C, FX2N, FX2NC, FX3U, FX3UC, FX3G and FX3GC, an error is returned.

Feature

Read data from the buffer memory of special function module.

Format (Dispatch interface)

■VBA

lRet = object.ReadBuffer(lStartIO,lAddress,lReadSize, iData(0))

Long	lRet	Returned value	Output
Long	lStartIO	Start I/O number of module from which values are read	Input
Long	lAddress	Buffer memory address	Input
Long	lReadSize	Read size	Input
Integer	iData(n)	Values read from buffer memory	Output

■Visual C++ .NET(MFC)

lRet = object.ReadBuffer(lStartIO, lAddress, lReadSize, *lpsData)

Long	lRet	Returned value	Output
Long	lStartIO	Start I/O number of module from which values are read	Input
Long	lAddress	Buffer memory address	Input
Long	lReadSize	Read size	Input
Short	*lpsData	Values read from buffer memory	Output

■VBScript

varRet = object.ReadBuffer(varStartIO, varAddress, varReadSize,lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varStartIO	Start I/O number of module from which values are read (LONG type)	Input
VARIANT	varAddress	Buffer memory address (LONG type)	Input
VARIANT	varReadSize	Read size (LONG type)	Input
VARIANT	lpvarData	Values read from buffer memory (SHORT array type)	Output

■Visual Basic .NET

lRet = object.ReadBuffer(iStartIO, iAddress, iReadSize, iData(0))

Integer	lRet	Returned value	Output
Integer	iStartIO	Start I/O number of module from which values are read	Input
Integer	iAddress	Buffer memory address	Input
Integer	iReadSize	Read size	Input
short	iData(n)	Values read from buffer memory	Output

■Visual C++ .NET

object.ReadBuffer(iStartIO, iAddress, iReadSize, *ipsData)

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module from which values are read	Input
int	iAddress	Buffer memory address	Input
int	iReadSize	Read size	Input
short	*ipsData	Values read from buffer memory	Output

■Visual C# .NET

iRet = object.ReadBuffer(iStartIO, iAddress, iReadSize, out sData[0])

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module from which values are read	Input
int	iAddress	Buffer memory address	Input
int	iReadSize	Read size	Input
short[n]	sData	Values read from buffer memory	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadBuffer(lStartIO, lAddress, lReadSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lStartIO	Start I/O number of module from which values are read	Input
LONG	lAddress	Buffer memory address	Input
LONG	lReadSize	Read size	Input
SHORT	*lpsData	Values read from buffer memory	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- For the start I/O number of the module specified for lStartIO (varStartIO or iStartIO), specify the value of the actual start I/O number divided by 16.
- Buffer values of buffer memory address specified for lAddress (varAddress or iAddress) of the special function module of the start I/O number specified for lStartIO (varStartIO or iStartIO) are read for the size of lReadSize (varReadSize or iReadSize).
- When performing CPU COM communication with FXCPU as a connected station or GX Simulator communication, specify the block number (0 to 7) of the special expansion equipment for the module's start I/O number and any value between 0 and 32767 for the buffer memory address.
- For iData (lpsData, lpvarData, or sData), reserve arrays for more than the amount specified for lReadSize (varReadSize or iReadSize).

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for reading/writing data from/to buffer memory in multiple CPU system configuration

Any of the following errors occurs when the function is executed under the situation where the configured multiple CPU system differs from the I/O assignment set in GX Developer.
Execute the function after checking the I/O assignment set in GX Developer and checking the I/O numbers of the module from/to which values are read/written.

- An error occurs even when the function is executed after the correct I/O numbers are specified.
- When the specific I/O numbers (I/O numbers whose I/O assignment is actually wrong) are specified, data can be read from buffer memory normally, but an error (error code: 0x010A4030, 0x010A4042, etc.) occurs when data are written to the buffer memory.
- Though a programmable controller CPU error (parameter error, SP. UNIT LAY ERR, etc.) does not occur in the multiple CPU system, an error occurs in the user application when the function is executed.

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- For iData (lpsData, lpvarData, or sData), reserve a memory area for the number of points specified for lReadSize (varReadSize or iReadSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When reading data from buffer memory (ReadBuffer) on QCPU (Q mode), the read operation can only be performed on the Q series-dedicated modules.
  Furthermore, data cannot be read from the shared memory of QCPU (Q mode).

WriteBuffer (Writing data to buffer memory)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Applicable communication paths

The following table shows the applicable communication paths.

○: Applicable, ×: Not applicable

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
Serial communication	Connected module: R series-compatible C24	UNIT_RJ71C24	PROTOCOL_SERIAL	○
	Connected module: Q series-compatible C24	UNIT_QJ71C24		○
	Connected module: L series-compatible C24	UNIT_LJ71C24		○
	Connected module: FX extended port	UNIT_FX485BD		×
Ethernet communication		UNIT_RJ71EN71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	○
		UNIT_RJ71EN71_DIRECT	PROTOCOL_UDPIP	
		UNIT_QJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_LJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXVETHER	PROTOCOL_TCPIP	×
		UNIT_FXVETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_LNETHER	PROTOCOL_TCPIP	○
		UNIT_LNETHER, UNIT_LNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_QNETHER	PROTOCOL_TCPIP	
		UNIT_QNETHER, UNIT_QNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_RJ71GN11	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_NZ2GF_ETB	PROTOCOL_TCPIP	
		UNIT_NZ2GF_ETB, UNIT_NZ2GF_ETB_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXETHER	PROTOCOL_TCPIP	
		UNIT_FXETHER_DIRECT	PROTOCOL_UDPIP	
CPU COM communication	Connection target CPU: FX5CPU	UNIT_FXVCPU	PROTOCOL_SERIAL	×
	Connection target CPU: QCPU (Q mode)	UNIT_QNCPU		○
	Connection target CPU: LCPU	UNIT_LNCPU		○
	Connection target CPU: Q motion CPU	UNIT_QNMOTION		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○*1
USB communication	Connection target CPU: RCPU	UNIT_RUSB	PROTOCOL_USB	○
	Connection target CPU: LHCPU	UNIT_LHUSB		○
	Connection target CPU: QCPU (Q mode)	UNIT_QNUSB		○
	Connection target CPU: LCPU	UNIT_LNUSB		○
	Connection target CPU: QSCPU	UNIT_QSUSB		×*2
	Connection target CPU: Q motion CPU	UNIT_QNMOTIONUSB		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
MELSECNET/H communication		UNIT_MNETHBOARD	PROTOCOL_MNETH	○*3
CC-Link IE Controller Network communication		UNIT_MNETGBOARD	PROTOCOL_MNETG	
CC-Link IE Field Network communication		UNIT_CCIEFBOARD	PROTOCOL_CCIEF	
CC-Link communication		UNIT_CCLINKBOARD	PROTOCOL_CCLINK	
CC-Link G4 communication		UNIT_G4QCPU	PROTOCOL_SERIAL	○
GX Simulator communication		UNIT_SIMULATOR	PROTOCOL_SHAREDMEMORY	○*4
GX Simulator2 communication		UNIT_SIMULATOR2	-	○
GX Simulator3 communication (RCPU)		UNIT_SIMULATOR3		×
GX Simulator3 communication (FX5CPU)				
MT Simulator2 communication		UNIT_SIMULATOR2	-	×
Modem communication	Connected module: Q series-compatible C24	UNIT_QJ71C24	PROTOCOL_SERIALMODEM	○
	Connected module: L series-compatible C24	UNIT_LJ71C24	PROTOCOL_SERIALMODEM	
	Connection target CPU: FXCPU	UNIT_FXCPU	PROTOCOL_TEL	○*1
Gateway function communication		UNIT_A900GOT	PROTOCOL_UDPIP	×
GOT transparent function communication		UNIT_RJ71C24, UNIT_QNCPU, UNIT_LNCPU	PROTOCOL_SERIAL, PROTOCOL_USBGOT	○
		UNIT_FXCPU		○*1
		UNIT_QJ71C24, UNIT_LJ71C24, UNIT_GOT_RJ71EN71, UNIT_GOT_QJ71E71, UNIT_GOT_LJ71E71, UNIT_GOT_RETHER, UNIT_GOT_QNETHER, UNIT_GOT_LNETHER, UNIT_A900GOT, UNIT_GOT_NZ2GF_ETB, UNIT_GOT_FXETHER, UNIT_GOT_FXENET		○
		UNIT_GOTETHER_RJ71C24, UNIT_GOTETHER_QNCPU, UNIT_GOTETHER_LNCPU	PROTOCOL_TCPIP	○
		UNIT_GOTETHER_FXCPU		○*1
		UNIT_GOTETHER_QBUS		○
		UNIT_GOTETHER_QN_ETHER		○
Q series bus communication		UNIT_QBF	PROTOCOL_QBF	○
Inverter communication		-	COMM_RS232C, COMM_USB	×

*1 When the CPU is other than FX1N, FX1NC, FX2N, FX2NC, FX3U, FX3UC, FX3G and FX3GC an error is returned.
*2 The error code "0x010A42A0" (the access password mismatch) is returned when accessing QSCPU.
*3 An error is returned when the own board is accessed.
*4 When the CPU is other than FX0N, FX1N, FX1NC, FXU, FX2C, FX2N, FX2NC, FX3U, FX3UC, FX3G and FX3GC, an error is returned.

Feature

Write data to the buffer memory of special function module.

Format (Dispatch interface)

■VBA

lRet = object.WriteBuffer(lStartIO, lAddress, lWriteSize, iData(0))

Long	lRet	Returned value	Output
Long	lStartIO	Start I/O number of module to which values are written	Input
Long	lAddress	Buffer memory address	Input
Long	lWriteSize	Write size	Input
Integer	iData(n)	Values written from buffer memory	Input

■Visual C++ .NET(MFC)

lRet = object.WriteBuffer(lStartIO, lAddress, lWriteSize, *lpsData)

Long	lRet	Returned value	Output
Long	lStartIO	Start I/O number of module to which values are written	Input
Long	lAddress	Buffer memory address	Input
Long	lWriteSize	Write size	Input
Short	*lpsData	Values written from buffer memory	Input

■VBScript

varRet = object.WriteBuffer(varStartIO, varAddress, varWriteSize,varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varStartIO	Start I/O number of module to which values are written (LONG type)	Input
VARIANT	varAddress	Buffer memory address (LONG type)	Input
VARIANT	varWriteSize	Write size (LONG type)	Input
VARIANT	varData	Values written from buffer memory (SHORT array type)	Input

■Visual Basic .NET

lRet = object.WriteBuffer(iStartIO, iAddress, iWriteSize, iData(0))

Integer	lRet	Returned value	Output
Integer	iStartIO	Start I/O number of module to which values are written	Input
Integer	iAddress	Buffer memory address	Input
Integer	iWriteSize	Write size	Input
short	iData(n)	Values written from buffer memory	Input

■Visual C++ .NET

iRet = object.WriteBuffer(iStartIO, iAddress, iWriteSize, *ipsData)

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module to which values are written	Input
int	iAddress	Buffer memory address	Input
int	iWriteSize	Write size	Input
short	*ipsData	Values written from buffer memory	Input

■Visual C# .NET

iRet = object. WriteBuffer (iStartIO, iAddress, iWriteSize, ref sData[0])

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module to which values are written	Input
int	iAddress	Buffer memory address	Input
int	iWriteSize	Write size	Input
short[n]	sData	Values written from buffer memory	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.WriteBuffer(lStartIO, lAddress, lWriteSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lStartIO	Start I/O number of module to which values are written	Input
LONG	lAddress	Buffer memory address	Input
LONG	lWriteSize	Write size	Input
SHORT	*lpsData	Values written from buffer memory	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- For the start I/O number of the module specified for lStartIO (varStartIO or iStartIO), specify the value of the actual start I/O number divided by 16.
- Buffer values of buffer memory address specified for lAddress (varAddress or iAddress) of the special function module of the start I/O number specified for lStartIO (varStartIO or iStartIO) are written for the size of lWriteSize (varWriteSize or iWriteSize).
- When performing CPU COM communication with FXCPU as a connected station or GX Simulator communication, specify the block number (0 to 7) of the special expansion equipment for the module's start I/O number and any value between 0 and 32767 for the buffer memory address.
- For iData (lpsData, varData, or sData), reserve arrays for more than the amount specified for lWriteSize (varWriteSize or iWriteSize).

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for reading/writing data from/to buffer memory in multiple CPU system configuration

Any of the following errors occurs when the function is executed under the situation where the configured multiple CPU system differs from the I/O assignment set in GX Developer.

Execute the function after checking the I/O assignment set in GX Developer and checking the I/O numbers of the module from/to which the values are read/written.

- An error occurs even when the function is executed after the correct I/O numbers are specified.
- When the specific I/O numbers (I/O numbers whose I/O assignment is actually wrong) are specified, data can be read from buffer memory normally, but an error (error code: 0x010A4030, 0x010A4042, etc.) occurs when data are written to the buffer memory.
- Though a programmable controller CPU error (parameter error, SP. UNIT LAY ERR, etc.) does not occur in the multiple CPU system, an error occurs in the user application when the function is executed.

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- For iData (lpsData, varData, or sData), reserve a memory area for the number of points specified for lWriteSize (varWriteSize or iWriteSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When buffer memory write (WriteBuffer) is performed for QCPU (Q mode), write operation may be performed for only the Q series-dedicated module.
  Furthermore, data cannot be written to the shared memory of QCPU (Q mode).

GetClockData (Reading clock data)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Applicable communication paths

The following table shows the applicable communication paths.

○: Applicable, ×: Not applicable

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
Serial communication	Connected module: R series-compatible C24	UNIT_RJ71C24	PROTOCOL_SERIAL	○
	Connected module: Q series-compatible C24	UNIT_QJ71C24		○
	Connected module: L series-compatible C24	UNIT_LJ71C24		○
	Connected module: FX extended port	UNIT_FX485BD		○
Ethernet communication		UNIT_RJ71EN71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	○
		UNIT_RJ71EN71_DIRECT	PROTOCOL_UDPIP	
		UNIT_QJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_LJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXVETHER	PROTOCOL_TCPIP	
		UNIT_FXVETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_LNETHER	PROTOCOL_TCPIP	
		UNIT_LNETHER, UNIT_LNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_QNETHER	PROTOCOL_TCPIP	
		UNIT_QNETHER, UNIT_QNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_RJ71GN11	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_NZ2GF_ETB	PROTOCOL_TCPIP	
		UNIT_NZ2GF_ETB, UNIT_NZ2GF_ETB_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXETHER	PROTOCOL_TCPIP	
		UNIT_FXETHER_DIRECT	PROTOCOL_UDPIP	
CPU COM communication	Connection target CPU: FX5CPU	UNIT_FXVCPU	PROTOCOL_SERIAL	○
	Connection target CPU: QCPU (Q mode)	UNIT_QNCPU		○
	Connection target CPU: LCPU	UNIT_LNCPU		○
	Connection target CPU: Q motion CPU	UNIT_QNMOTION		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○
USB communication	Connection target CPU: RCPU	UNIT_RUSB	PROTOCOL_USB	○
	Connection target CPU: LHCPU	UNIT_LHUSB		○
	Connection target CPU: QCPU (Q mode)	UNIT_QNUSB		○
	Connection target CPU: LCPU	UNIT_LNUSB		○
	Connection target CPU: QSCPU	UNIT_QSUSB		○
	Connection target CPU: Q motion CPU	UNIT_QNMOTIONUSB		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
MELSECNET/H communication		UNIT_MNETHBOARD	PROTOCOL_MNETH	○*1
CC-Link IE Controller Network communication		UNIT_MNETGBOARD	PROTOCOL_MNETG	
CC-Link IE Field Network communication		UNIT_CCIEFBOARD	PROTOCOL_CCIEF	
CC-Link communication		UNIT_CCLINKBOARD	PROTOCOL_CCLINK	
CC-Link G4 communication		UNIT_G4QCPU	PROTOCOL_SERIAL	○
GX Simulator communication		UNIT_SIMULATOR	PROTOCOL_SHAREDMEMORY	○
GX Simulator2 communication		UNIT_SIMULATOR2	-	○
GX Simulator3 communication (RCPU)		UNIT_SIMULATOR3		
GX Simulator3 communication (FX5CPU)				
MT Simulator2 communication		UNIT_SIMULATOR2	-	×
Modem communication	Connected module: Q series-compatible C24	UNIT_QJ71C24	PROTOCOL_SERIALMODEM	○
	Connected module: L series-compatible C24	UNIT_LJ71C24	PROTOCOL_SERIALMODEM	
	Connection target CPU: FXCPU	UNIT_FXCPU	PROTOCOL_TEL	
Gateway function communication		UNIT_A900GOT	PROTOCOL_UDPIP	×
GOT transparent function communication		UNIT_RJ71C24, UNIT_QNCPU, UNIT_LNCPU, UNIT_FXCPU, UNIT_QJ71C24, UNIT_LJ71C24, UNIT_GOT_RJ71EN71, UNIT_GOT_QJ71E71, UNIT_GOT_LJ71E71, UNIT_GOT_RETHER, UNIT_GOT_QNETHER, UNIT_GOT_LNETHER, UNIT_A900GOT, UNIT_GOT_NZ2GF_ETB, UNIT_GOT_FXETHER, UNIT_GOT_FXENET	PROTOCOL_SERIAL, PROTOCOL_USBGOT	○
		UNIT_GOTETHER_RJ71C24, UNIT_GOTETHER_QNCPU, UNIT_GOTETHER_LNCPU, UNIT_GOTETHER_FXCPU, UNIT_GOTETHER_QBUS, UNIT_GOTETHER_QN_ETHER	PROTOCOL_TCPIP	
Q series bus communication		UNIT_QBF	PROTOCOL_QBF	○
Inverter communication		-	COMM_RS232C, COMM_USB	×

*1 An error is returned when the own board is accessed.

Feature

Read clock data from a programmable controller CPU.

Format (Dispatch interface)

■VBA

lRet = object.GetClockData(iYear, iMonth, iDay, iDayOfWeek, iHour, iMinute, iSecond)

Long	lRet	Returned value	Output
Integer	iYear	Read year value	Output
Integer	iMonth	Read month value	Output
Integer	iDay	Read day value	Output
Integer	iDayOfWeek	Read day-of-week value	Output
Integer	iHour	Read hour value	Output
Integer	iMinute	Read minute value	Output
Integer	iSecond	Read second value	Output

■Visual C++ .NET(MFC)

lRet = object.GetClockData(*lpsYear, *lpsMonth, *lpsDay, *lpsDayOfWeek, *lpsHour, *lpsMinute, *lpsSecond)

Long	lRet	Returned value	Output
Short	*lpsYear	Read year value	Output
Short	*lpsMonth	Read month value	Output
Short	*lpsDay	Read day value	Output
Short	*lpsDayOfWeek	Read day-of-week value	Output
Short	*lpsHour	Read hour value	Output
Short	*lpsMinute	Read minute value	Output
Short	*lpsSecond	Read second value	Output

■VBScript

varRet = object.GetClockData(lpvarYear, lpvarMonth, lpvarDay, lpvarDayOfWeek, lpvarHour, lpvarMinute, lpvarSecond)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	lpvarYear	Read year value (SHORT type)	Output
VARIANT	lpvarMonth	Read month value (SHORT type)	Output
VARIANT	lpvarDay	Read day value (SHORT type)	Output
VARIANT	lpvarDayOfWeek	Read day-of-week value (SHORT type)	Output
VARIANT	lpvarHour	Read hour value (SHORT type)	Output
VARIANT	lpvarMinute	Read minute value (SHORT type)	Output
VARIANT	lpvarSecond	Read second value (SHORT type)	Output

■Visual Basic .NET

lRet = object.GetClockData(iYear, iMonth, iDay, iDayOfWeek,iHour, iMinute,iSecond)

Integer	lRet	Returned value	Output
short	iYear	Read year value	Output
short	iMonth	Read month value	Output
short	iDay	Read day value	Output
short	iDayOfWeek	Read day-of-week value	Output
short	iHour	Read hour value	Output
short	iMinute	Read minute value	Output
short	iSecond	Read second value	Output

■Visual C++ .NET

iRet = object.GetClockData(*lpsYear, *lpsMonth, *lpsDay, *lpsDayOfWeek, *lpsHour, *lpsMinute, *lpsSecond)

int	iRet	Returned value	Output
short	*lpsYear	Read year value	Output
short	*lps Month	Read month value	Output
short	*lps Day	Read day value	Output
short	*lps DayOfWeek	Read day-of-week value	Output
short	*lps Hour	Read hour value	Output
short	*lps Minute	Read minute value	Output
short	*lps Second	Read second value	Output

■Visual C# .NET

hResult = object.GetClockData(out sYear, out sMonth, out sDay, out sDayOfWeek,out sHour, out sMinute, out sSecond)

int	iRet	Returned value	Output

short	sYear	Read year value	Output
short	sMonth	Read month value	Output
short	sDay	Read day value	Output
short	sDayOfWeek	Read day-of-week value	Output
short	sHour	Read hour value	Output
short	sMinute	Read minute value	Output
short	sSecond	Read second value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.GetClockData(*lpsYear, *lpsMonth, *lpsDay, *lpsDayOfWeek, *lpsHour, *lpsMinute, *lpsSecond, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
SHORT	*lpsYear	Read year value	Output
SHORT	*lpsMonth	Read month value	Output
SHORT	*lpsDay	Read day value	Output
SHORT	*lpsDayOfWeek	Read day-of-week value	Output
SHORT	*lpsHour	Read hour value	Output
SHORT	*lpsMinute	Read minute value	Output
SHORT	*lpsSecond	Read second value	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- An error is returned when the correct clock data is not set to the programmable controller CPU.
- The values stored in iYear (lpsYear, lpvarYear, or sYear) are: four digits of the year for RCPU and QCPU (Q mode) and last two digits of the year for any other CPUs. Note that the applicable years for RCPU and QCPU (Q mode) are from 1980 to 2079.
- The values stored in iDayOfWeek (lpsDayOfWeek, lpvarDayOfWeek, or sDayOfWeek) are as follows.

Value	Day of Week
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- The clock data can be read from FXCPUs with the built-in clock or FXU/FX2C/FX2NC with the RTC cassette.
  An error is returned when the clock data is read from an FXCPU other than the ones described above.
- Note that an error of transfer time may occur in clock setting.

SetClockData (Writing clock data)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Applicable communication paths

The following table shows the applicable communication paths.

○: Applicable, ×: Not applicable

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
Serial communication	Connected module: R series-compatible C24	UNIT_RJ71C24	PROTOCOL_SERIAL	○
	Connected module: Q series-compatible C24	UNIT_QJ71C24		○
	Connected module: L series-compatible C24	UNIT_LJ71C24		○
	Connected module: FX extended port	UNIT_FX485BD		○
Ethernet communication		UNIT_RJ71EN71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	○
		UNIT_RJ71EN71_DIRECT	PROTOCOL_UDPIP	
		UNIT_QJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_LJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXVETHER	PROTOCOL_TCPIP	
		UNIT_FXVETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_LNETHER	PROTOCOL_TCPIP	
		UNIT_LNETHER, UNIT_LNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_QNETHER	PROTOCOL_TCPIP	
		UNIT_QNETHER, UNIT_QNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_RJ71GN11	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_NZ2GF_ETB	PROTOCOL_TCPIP	
		UNIT_NZ2GF_ETB, UNIT_NZ2GF_ETB_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXETHER	PROTOCOL_TCPIP	
		UNIT_FXETHER_DIRECT	PROTOCOL_UDPIP	
CPU COM communication	Connection target CPU: FX5CPU	UNIT_FXVCPU	PROTOCOL_SERIAL	○
	Connection target CPU: QCPU (Q mode)	UNIT_QNCPU		○
	Connection target CPU: LCPU	UNIT_LNCPU		○
	Connection target CPU: Q motion CPU	UNIT_QNMOTION		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○
USB communication	Connection target CPU: RCPU	UNIT_RUSB	PROTOCOL_USB	○
	Connection target CPU: LHCPU	UNIT_LHUSB		○
	Connection target CPU: QCPU (Q mode)	UNIT_QNUSB		○
	Connection target CPU: LCPU	UNIT_LNUSB		○
	Connection target CPU: QSCPU	UNIT_QSUSB		×*1
	Connection target CPU: Q motion CPU	UNIT_QNMOTIONUSB		×
	Connection target CPU: FXCPU	UNIT_FXCPU		○

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
MELSECNET/H communication		UNIT_MNETHBOARD	PROTOCOL_MNETH	○*2
CC-Link IE Controller Network communication		UNIT_MNETGBOARD	PROTOCOL_MNETG	
CC-Link IE Field Network communication		UNIT_CCIEFBOARD	PROTOCOL_CCIEF	
CC-Link communication		UNIT_CCLINKBOARD	PROTOCOL_CCLINK	
CC-Link G4 communication		UNIT_G4QCPU	PROTOCOL_SERIAL	○
GX Simulator communication		UNIT_SIMULATOR	PROTOCOL_SHAREDMEMORY	○
GX Simulator2 communication		UNIT_SIMULATOR2	-	×
GX Simulator3 communication (RCPU)		UNIT_SIMULATOR3		
GX Simulator3 communication (FX5CPU)				
MT Simulator2 communication		UNIT_SIMULATOR2	-	×
Modem communication	Connected module: Q series-compatible C24	UNIT_QJ71C24	PROTOCOL_SERIALMODEM	○
	Connected module: L series-compatible C24	UNIT_LJ71C24	PROTOCOL_SERIALMODEM	
	Connection target CPU: FXCPU	UNIT_FXCPU	PROTOCOL_TEL	
Gateway function communication		UNIT_A900GOT	PROTOCOL_UDPIP	×
GOT transparent function communication		UNIT_RJ71C24, UNIT_QNCPU, UNIT_LNCPU, UNIT_FXCPU,UNIT_QJ71C24, UNIT_LJ71C24, UNIT_GOT_RJ71EN71, UNIT_GOT_QJ71E71, UNIT_GOT_LJ71E71, UNIT_GOT_RETHER, UNIT_GOT_QNETHER, UNIT_GOT_LNETHER, UNIT_A900GOT, UNIT_GOT_NZ2GF_ETB, UNIT_GOT_FXETHER, UNIT_GOT_FXENET	PROTOCOL_SERIAL, PROTOCOL_USBGOT	○
		UNIT_GOTETHER_RJ71C24, UNIT_GOTETHER_QNCPU, UNIT_GOTETHER_LNCPU, UNIT_GOTETHER_FXCPU, UNIT_GOTETHER_QBUS, UNIT_GOTETHER_QN_ETHER	PROTOCOL_TCPIP	
Q series bus communication		UNIT_QBF	PROTOCOL_QBF	○
Inverter communication		-	COMM_RS232C, COMM_USB	×

*1 The error code "0x010A42A0" (the access password mismatch) is returned when accessing QSCPU.

*2 An error is returned when the own board is accessed.

Feature

Write clock data to a programmable controller CPU.

Format (Dispatch interface)

■VBA

object.SetClockData(iYear, iMonth, iDay, iDayOfWeek, iHour, iMinute, iSecond)

Long	lRet	Returned value	Output
Integer	iYear	Year value to be written	Input
Integer	iMonth	Month value to be written	Input
Integer	iDay	Day value to be written	Input
Integer	iDayOfWeek	Day-of-week value to be written	Input
Integer	iHour	Hour value to be written	Input
Integer	iMinute	Minute value to be written	Input
Integer	iSecond	Second value to be written	Input

■Visual C++ .NET(MFC)

lRet = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

Long	lRet	Returned value	Output
Short	sYear	Year value to be written	Input
Short	sMonth	Month value to be written	Input
Short	sDay	Day value to be written	Input
Short	sDayOfWeek	Day-of-week value to be written	Input
Short	sHour	Hour value to be written	Input
Short	sMinute	Minute value to be written	Input
Short	sSecond	Second value to be written	Input

■VBScript

varRet = object.SetClockData(varYear, varMonth, varDay, varDayOfWeek, varHour, varMinute, varSecond)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varYear	Year value to be written (SHORT type)	Input
VARIANT	varMonth	Month value to be written (SHORT type)	Input
VARIANT	varDay	Day value to be written (SHORT type)	Input
VARIANT	varDayOfWeek	Day-of-week value to be written (SHORT type)	Input
VARIANT	varHour	Hour value to be written (SHORT type)	Input
VARIANT	varMinute	Minute value to be written (SHORT type)	Input
VARIANT	varSecond	Second value to be written (SHORT type)	Input

■Visual Basic .NET

IRet = object.SetClockData(iYear, iMonth, iDay, iDayOfWeek, iHour, iMinute,iSecond)

Integer	IRet	Returned value	Output
short	iYear	Year value to be written	Input
short	iMonth	Month value to be written	Input
short	iDay	Day value to be written	Input
short	iDayOfWeek	Day-of-week value to be written	Input
short	iHour	Hour value to be written	Input
short	iMinute	Minute value to be written	Input
short	iSecond	Second value to be written	Input

■Visual C++ .NET

iRet = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

int	iRet	Returned value	Output
short	sYear	Year value to be written	Input
short	sMonth	Month value to be written	Input
short	sDay	Day value to be written	Input
short	sDayOfWeek	Day-of-week value to be written	Input
short	sHour	Hour value to be written	Input
short	sMinute	Minute value to be written	Input
short	sSecond	Second value to be written	Input

■Visual C# .NET

lRet = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

int	iRet	Returned value	Output
short	sYear	Year value to be written	Input
short	sMonth	Month value to be written	Input
short	sDay	Day value to be written	Input
short	sDayOfWeek	Day-of-week value to be written	Input
short	sHour	Hour value to be written	Input
short	sMinute	Minute value to be written	Input
short	sSecond	Second value to be written	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
SHORT	sYear	Year value to be written	Input
SHORT	sMonth	Month value to be written	Input
SHORT	sDay	Day value to be written	Input
SHORT	sDayOfWeek	Day-of-week value to be written	Input
SHORT	sHour	Hour value to be written	Input
SHORT	sMinute	Minute value to be written	Input
SHORT	sSecond	Second value to be written	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- An error is returned when the clock data to be set are not correct values.
- The applicable values to be specified for iYear (sYear or varYear) are: four digits of the year for RCPU and QCPU (Q mode) and last two digits of the year for any other CPUs.
  Note that the applicable years for RCPU and QCPU (Q mode) are from 1980 to 2079. An error occurs when four digits are set to a CPU other than RCPU and QCPU (Q mode).
- The values to be specified for iDayOfWeek (sDayOfWeek or varDayOfWeek) are as follows.

Value	Day of Week
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- The clock data can be written to FXCPUs with the built-in clock or FXU/FX2C/FX2NC with the RTC cassette.
  An error is returned when the clock data is written to an FXCPU other than the ones described above.
- Note that an error of transfer time may occur in clock setting.

GetCpuType (Reading programmable controller CPU model)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

Feature

Read the model character string and the model code of programmable controller CPU, network board, and GOT.

Format (Dispatch interface)

■VBA

lRet = object.GetCpuType(szCpuName, lCpuType)

Long	lRet	Returned value	Output
String	szCpuName	Programmable controller CPU model character string	Output
Long	lCpuType	Programmable controller CPU model code	Output

■Visual C++ .NET(MFC)

lRet = object.GetCpuType(*szCpuName, *lplCpuType)

Long	lRet	Returned value	Output
BSTR	*szCpuName	Programmable controller CPU model character string	Output
Long	*lplCpuType	Programmable controller CPU model code	Output

■VBScript

varRet = object.GetCpuType(varCpuName, lpvarCpuCode)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	lpvarCpuName	Programmable controller CPU model character string (character string type)	Output
VARIANT	lpvarCpuCode	Programmable controller CPU model code (LONG type)	Output

■Visual Basic .NET

lRet = object.GetCpuType(szCpuName, lCpuType)

Integer	lRet	Returned value	Output
String	szCpuName	Programmable controller CPU model character string	Output
Integer	lCpuType	Programmable controller CPU model code	Output

■Visual C++ .NET

iRet = object.GetCpuType (**szCpuName, *iplCpuType)

int	iRet	Returned value	Output
String	**szCpuName	Programmable controller CPU model character string	Output
int	*iplCpuType	Programmable controller CPU model code	Output

■Visual C# .NET

iRet = object.GetCpuType (out szCpuName, out iCpuType)

int	iRet	Returned value	Output
String	szCpuName	Programmable controller CPU model character string	Output
int	iCpuType	Programmable controller CPU model code	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.GetCpuType(*szCpuName, *lplCpuType, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	*szCpuName	Programmable controller CPU model character string	Output
LONG	*lplCpuType	Programmable controller CPU model code	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The model and the model code of the communication target programmable controller CPU are stored in szCpuName (lpvarCpuName) and lCpuType (lplCpuType, lpvarCpuCode, or iCpuType) respectively.
- The model character string of the programmable controller CPU is returned in UNICODE.

Model character string and model code

The following tables show the model character strings and the model codes of programmable controller CPU, network board, and GOT, which are read by the GetCpuType function.

CPU type Network board/GOT	When CPU/own board is connected		When GX Simulator is connected	
	Model character string	Model code	Model character string	Model code
CPU_R00CPU	R00CPU	48A0H	-	
CPU_R01CPU	R01CPU	48A1H		
CPU_R02CPU	R02CPU	48A2H		
CPU_R04CPU	R04CPU	4800H		
CPU_R04ENCPU	R04ENCPU	4805H		
CPU_R08CPU	R08CPU	4801H		
CPU_R08ENCPU	R08ENCPU	4806H		
CPU_R08PCPU	R08PCPU	4841H		
CPU_R08PSFCPU	R08PSFCPU	4851H		
CPU_R08SFCPU	R08SFCPU	4891H		
CPU_R16CPU	R16CPU	4802H		
CPU_R16ENCPU	R16ENCPU	4807H		
CPU_R16PCPU	R16PCPU	4842H		
CPU_R16PSFCPU	R16PSFCPU	4852H		
CPU_R16SFCPU	R16SFCPU	4892H		
CPU_R32CPU	R32CPU	4803H		
CPU_R32ENCPU	R32ENCPU	4808H		
CPU_R32PCPU	R32PCPU	4843H		
CPU_R32PSFCPU	R32PSFCPU	4853H		
CPU_R32SFCPU	R32SFCPU	4893H		
CPU_R120CPU	R120CPU	4804H		
CPU_R120ENCPU	R120ENCPU	4809H		
CPU_R120PCPU	R120PCPU	4844H		
CPU_R120PSFCPU	R120PSFCPU	4854H		
CPU_R120SFCPU	R120SFCPU	4894H		
CPU_R16MTCPU	R16MTCPU	4C00H		
CPU_R32MTCPU	R32MTCPU	4C01H		
CPU_R12CCPU-V	R12CCPU-V	4820H		
CPU_L04HCPU	L04HCPU	48C0H		
CPU_L08HCPU	L08HCPU	48C1H		
CPU_L16HCPU	L16HCPU	48C2H		
CPU_Q00JCPU	Q00JCPU	250H	Q00JCPU	250H
CPU_Q00UJCPU	Q00UJCPU	260H	Q00UJCPU	260H
CPU_Q00CPU	Q00CPU	251H	Q00CPU	251H
CPU_Q00UCPU	Q00UCPU	261H	Q00UCPU	261H
CPU_Q01CPU	Q01CPU	252H	Q01CPU	252H
CPU_Q01UCPU	Q01UCPU	262H	Q01UCPU	262H
CPU_Q02CPU	Q02CPU	41H	Q02CPU	41H
CPU_Q02HCPU	Q02HCPU		Q02HCPU	
CPU_Q02PHCPU	Q02PHCPU		Q02PHCPU	
CPU_Q02UCPU	Q02UCPU	263H	Q02UCPU	263H
CPU_Q03UDCPU	Q03UDCPU	268H	Q03UDCPU	268H
CPU_Q03UDECPU	Q03UDECPU		Q03UDECPU	
CPU_Q03UDVCPU	Q03UDVCPU	366H	-	
CPU_Q04UDHCPU	Q04UDHCPU	269H	Q04UDHCPU	269H
CPU_Q04UDEHCPU	Q04UDEHCPU		Q04UDEHCPU	
CPU_Q04UDVCPU	Q04UDVCPU	367H	-	

CPU type Network board/GOT	When CPU/own board is connected		When GX Simulator is connected	
	Model character string	Model code	Model character string	Model code
CPU_Q06HCPU	Q06HCPU	42H	Q06HCPU	42H
CPU_Q06PHCPU	Q06PHCPU		Q06PHCPU	
CPU_Q06UDHCPU	Q06UDHCPU	26AH	Q06UDHCPU	26AH
CPU_Q06UDEHCPU	Q06UDEHCPU		Q06UDEHCPU	
CPU_Q06UDVCPU	Q06UDVCPU	368H	-	
CPU_Q10UDHCPU	Q10UDHCPU	266H	Q10UDHCPU	266H
CPU_Q10UDEHCPU	Q10UDEHCPU		Q10UDEHCPU	
CPU_Q12HCPU	Q12HCPU	43H	Q12HCPU	43H
CPU_Q12PHCPU				
CPU_Q12PRHCPU	Q12PRHCPU	4BH	Q12PRHCPU	4BH
CPU_Q13UDHCPU	Q13UDHCPU	26BH	Q13UDHCPU	26BH
CPU_Q13UDEHCPU	Q13UDEHCPU		Q13UDEHCPU	
CPU_Q13UDVCPU	Q13UDVCPU	36AH	-	
CPU_Q20UDHCPU	Q20UDHCPU	267H	Q20UDHCPU	267H
CPU_Q20UDEHCPU	Q20UDEHCPU		Q20UDEHCPU	
CPU_Q25HCPU	Q25HCPU	44H	Q25HCPU	44H
CPU_Q25PHCPU				
CPU_Q25PRHCPU	Q25PRHCPU	4CH	Q25PRHCPU	4CH
CPU_Q26UDHCPU	Q26UDHCPU	26CH	Q26UDHCPU	26CH
CPU_Q26UDEHCPU	Q26UDEHCPU		Q26UDEHCPU	
CPU_Q26UDVCPU	Q26UDVCPU	36CH	-	
CPU_Q50UDEHCPU	Q50UDEHCPU	26DH		
CPU_Q100UDEHCPU	Q100UDEHCPU	36CH		
CPU_Q02CPU-A	Q02CPU	141H	Q02CPU-A	141H
CPU_Q02HCPU-A	Q02HCPU			
CPU_Q06HCPU-A	Q06HCPU	142H	Q06HCPU-A	142H
CPU_L02SCPU	L02SCPU	543H	-	
CPU_L02CPU	L02CPU	541H		
CPU_L06CPU	L06CPU	544H		
CPU_L26CPU	L26CPU	545H		
CPU_L26CPU-BT	L26CPU-BT	542H		
CPU_Q12DCCPU-V	Q12DCCPU-V	2043H	-	
CPU_Q24DHCCPU-V	Q24DHCCPU-V	2044H		
CPU_Q24DHCCPU-LS	Q24DHCCPU-LS	2045H		
CPU_Q24DHCCPU-VG	Q24DHCCPU-VG	2046H		
CPU_Q26DHCCPU-LS	Q26DHCCPU-LS	2047H		
CPU_QS001CPU	QS001CPU	230H		
CPU_Q172CPU	Q172CPU	2010H		
CPU_Q172HCPU	Q172HCPU	2012H		
CPU_Q173CPU	Q173CPU	2011H		
CPU_Q173HCPU	Q173HCPU	2013H		
CPU_Q172DCPU	Q172DCPU	2014H		
CPU_Q173DCPU	Q173DCPU	2015H		
CPU_Q172DSCPU	Q172DSCPU	2018H		
CPU_Q173DSCPU	Q173DSCPU	2019H		
CPU_FX0	FX0/FX0S	F0H	FX0/FX0S	F0H
CPU_FX0S				
CPU_FX0N	FX0N	8EH	FX0N	8EH
CPU_FX1	FX1	F1H	FX1	F1H
CPU_FX1S	FX1S	F2H	FX1S	F2H
CPU_FX1N	FX1N	9EH	FX1N	9EH
CPU_FX1NC				

CPU type Network board/GOT	When CPU/own board is connected		When GX Simulator is connected	
	Model character string	Model code	Model character string	Model code
CPU_FXU	FXU/FX2C	8DH	FXU/FX2C	8DH
CPU_FX2C				
CPU_FX2N	FX2N/FX2NC	9DH	FX2N/FX2NC	9DH
CPU_FX2NC				
CPU_FX3S	FX3S	F5H	-	
CPU_FX3G	FX3G	F4H	FX3G	F4H
CPU_FX3GC				
CPU_FX3U	FX3UC	F3H	FX3UC	F3H
CPU_FX3UC				
CPU_FX5UCPU	FX5UCPU	4A00H	-	
Q80BD-J71LP21-25	Q80BD-J71LP21-25	90H		
Q80BD-J71LP21G	Q80BD-J71LP21G			
Q80BD-J71BR11	Q80BD-J71BR11			
Q81BD-J71GF11-T2	Q81BD-J71GF11-T2			
GOT	*1	E340H		
A800	0xA8	A8H		
CRnD-7xx/CR75x-D	CRnD-7xx	03H		

*1 A product model number of GOT is displayed.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

SetCpuStatus (Remote control)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Applicable communication paths

The following table shows the applicable communication paths.

○: Applicable, ×: Not applicable

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
Serial communication	Connected module: R series-compatible C24	UNIT_RJ71C24	PROTOCOL_SERIAL	○
	Connected module: Q series-compatible C24	UNIT_QJ71C24		○
	Connected module: L series-compatible C24	UNIT_LJ71C24		○
	Connected module: FX extended port	UNIT_FX485BD		○*1,*2
Ethernet communication		UNIT_RJ71EN71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	○
		UNIT_RJ71EN71_DIRECT	PROTOCOL_UDPIP	
		UNIT_QJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_LJ71E71	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_RETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXVETHER	PROTOCOL_TCPIP	○*1
		UNIT_FXVETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_LNETHER	PROTOCOL_TCPIP	○
		UNIT_LNETHER, UNIT_LNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_QNETHER	PROTOCOL_TCPIP	
		UNIT_QNETHER, UNIT_QNETHER_DIRECT	PROTOCOL_UDPIP	
		UNIT_RJ71GN11	PROTOCOL_TCPIP, PROTOCOL_UDPIP	
		UNIT_NZ2GF_ETB	PROTOCOL_TCPIP	
		UNIT_NZ2GF_ETB, UNIT_NZ2GF_ETB_DIRECT	PROTOCOL_UDPIP	
		UNIT_FXETHER	PROTOCOL_TCPIP	○*1
		UNIT_FXETHER_DIRECT	PROTOCOL_UDPIP	
CPU COM communication	Connection target CPU: FX5CPU	UNIT_FXVCPU	PROTOCOL_SERIAL	○*1
	Connection target CPU: QCPU (Q mode)	UNIT_QNCPU		○
	Connection target CPU: LCPU	UNIT_LNCPU		○
	Connection target CPU: Q motion CPU	UNIT_QNMOTION		○
	Connection target CPU: FXCPU	UNIT_FXCPU		○*1

Communication path		Property setting		Applicability
		ActUnitType	ActProtocolType	
USB communication	Connection target CPU: RCPU	UNIT_RUSB	PROTOCOL_USB	○
	Connection target CPU: LHCPU	UNIT_LHUSB		○
	Connection target CPU: QCPU (Q mode)	UNIT_QNUSB		○
	Connection target CPU: LCPU	UNIT_LNUSB		○
	Connection target CPU: QSCPU	UNIT_QSUSB		×*3
	Connection target CPU: Q motion CPU	UNIT_QNMOTIONUSB		○
	Connection target CPU: FXCPU	UNIT_FXCPU		○*1
MELSECNET/H communication		UNIT_MNETHBOARD	PROTOCOL_MNETH	○*4
CC-Link IE Controller Network communication		UNIT_MNETGBOARD	PROTOCOL_MNETG	
CC-Link IE Field Network communication		UNIT_CCIEFBOARD	PROTOCOL_CCIEF	
CC-Link communication		UNIT_CCLINKBOARD	PROTOCOL_CCLINK	
CC-Link G4 communication		UNIT_G4QCPU	PROTOCOL_SERIAL	○
GX Simulator communication		UNIT_SIMULATOR	PROTOCOL_SHAREDMEMORY	○
GX Simulator2 communication		UNIT_SIMULATOR2	-	○
GX Simulator3 communication (RCPU)		UNIT_SIMULATOR3		
GX Simulator3 communication (FX5CPU)				○*1
MT Simulator2 communication		UNIT_SIMULATOR2	-	○
Modem communication	Connected module: Q series-compatible C24	UNIT_QJ71C24	PROTOCOL_SERIALMODEM	○
	Connected module: L series-compatible C24	UNIT_LJ71C24	PROTOCOL_SERIALMODEM	
	Connection target CPU: FXCPU	UNIT_FXCPU	PROTOCOL_TEL	○*1
Gateway function communication		UNIT_A900GOT	PROTOCOL_UDPIP	×
GOT transparent function communication		UNIT_RJ71C24, UNIT_QNCPU, UNIT_LNCPU	PROTOCOL_SERIAL, PROTOCOL_USBGOT	○
		UNIT_FXCPU		○*1
		UNIT_QJ71C24, UNIT_LJ71C24, UNIT_GOT_RJ71EN71, UNIT_GOT_QJ71E71, UNIT_GOT_LJ71E71, UNIT_GOT_RETHER, UNIT_GOT_QNETHER, UNIT_GOT_LNETHER, UNIT_A900GOT, UNIT_GOT_NZ2GF_ETB		○
		UNIT_GOT_FXETHER, UNIT_GOT_FXENET		○*1
		UNIT_GOTETHER_RJ71C24, UNIT_GOTETHER_QNCPU, UNIT_GOTETHER_LNCPU	PROTOCOL_TCPIP	○
		UNIT_GOTETHER_FXCPU		○*1
		UNIT_GOTETHER_QBUS		○
		UNIT_GOTETHER_QN_ETHER		○
Q series bus communication		UNIT_QBF	PROTOCOL_QBF	○
Inverter communication		-	COMM_RS232C, COMM_USB	×

*1 An error is returned when PAUSE is specified.
*2 An error is returned when the CPU is other than FX1N, FX1NC, FX2N, FX2NC, FX3S, FX3U, FX3UC, FX3G and FX3GC.
*3 The error code "0x010A42A0" (the access password mismatch) is returned when accessing QSCPU.
*4 An error is returned when the own board is accessed.

Feature

Perform a remote operation of programmable controller CPU.

Format (Dispatch interface)

■VBA

lRet = object.SetCpuStatus(lOperation)

Long	lRet	Returned value	Output
Long	lOperation	Remote RUN/STOP/PAUSE	Input

■Visual C++ .NET(MFC)

lRet = object.SetCpuStatus(lOperation)

Long	lRet	Returned value	Output
Long	lOperation	Remote RUN/STOP/PAUSE	Input

■VBScript

varRet = object.SetCpuStatus(varOperation)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varOperation	Remote RUN/STOP/PAUSE (LONG type)	Input

■Visual Basic .NET

lRet = object.SetCpuStatus(lOperation)

Integer	lRet	Returned value	Output
Integer	lOperation	Remote RUN/STOP/PAUSE	Input

■Visual C++ .NET

iRet = object.SetCpuStatus (iOperation)

int	iRet	Returned value	Output
int	iOperation	Remote RUN/STOP/PAUSE	Input

■Visual C# .NET

iRet = object.SetCpuStatus (iOperation)

int	iRet	Returned value	Output
int	iOperation	Remote RUN/STOP/PAUSE	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.SetCpuStatus(lOperation, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lOperation	Remote RUN/STOP/PAUSE	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

The operation specified for lOperation (varOperation or iOperation) is performed.

An error occurs when a value other than the following values is specified.

Value	Operation
0	Remote RUN
1	Remote STOP
2	Remote PAUSE

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- Since FXCPU or FX5CPU does not have the PAUSE switch as a programmable controller CPU, an error is returned if a remote pause operation is specified using the SetCpuStatus function.
- If a Q motion CPU is accessed and PAUSE is specified, an error is returned.
- If an R motion CPU is accessed, an error is returned.

EntryDeviceStatus (Registering devices for status monitoring)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Feature

Register devices whose status to be monitored.

Format (Dispatch interface)

■VBA

lRet = object.EntryDeviceStatus(szDeviceList, lSize, lMonitorCycle, lData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Registered device name list	Input
Long	lSize	Number of registered device points	Input
Long	lMonitorCycle	Status monitoring time interval	Input
Long	lData(n)	Registered device value list	Input

■Visual C++ .NET(MFC)

lRet = object.EntryDeviceStatus (szDeviceList, lSize, lMonitorCycle, *lplData)

Long	lRet	Returned value	Output
CString	szDeviceList	Registered device name list	Input
Long	lSize	Number of registered device points	Input
Long	lMonitorCycle	Status monitoring time interval	Input
Long	*lplData	Registered device value list	Input

■VBScript

varRet = object.EntryDeviceStatus(varDeviceList, varSize, varMonitorCycle, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDeviceList	Registered device name list (BSTR type)	Input
VARIANT	varSize	Number of registered device points (LONG type)	Input
VARIANT	varMonitorCycle	Status monitoring time interval (LONG type)	Input
VARIANT	varData	Registered device value list (LONG type)	Input

■Visual Basic .NET

lRet = object.EntryDeviceStatus(szDeviceList, lSize,lMonitorCycle, lData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Registered device name list	Input
Integer	lSize	Number of registered device points	Input
Integer	lMonitorCycle	Status monitoring time interval	Input
Integer	lData(n)	Registered device value list	Input

■Visual C++ .NET

iRet = object.EntryDeviceStatus(szDeviceList, iSize, iMonitorCycle, *iplData)

int	iRet	Returned value	Output
String	*szDeviceList	Registered device name list	Input
int	iSize	Number of registered device points	Input
int	iMonitorCycle	Status monitoring time interval	Input
int	*iplData	Registered device value list	Input

■Visual C# .NET

iRet = object. EntryDeviceStatus(szDeviceList, iSize, iMonitorCycle, ref iData[0])

int	iRet	Returned value	Output
String	szDeviceList	Registered device name list	Input
int	iSize	Number of registered device points	Input
int	iMonitorCycle	Status monitoring time interval	Input
int[n]	iData	Registered device value list	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.EntryDeviceStatus(szDeviceList, lSize,lMonitorCycle, *lplData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Registered device name list	Input
LONG	lSize	Number of registered device points	Input
LONG	lMonitorCycle	Status monitoring time interval	Input
LONG	*lplData	Device value to be written	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- A device group for the size of lSize (varSize or iSize) specified for szDeviceList (varDeviceList) is checked whether it is in the status specified for lData (lplData, varData, or iData).
  Specify the check time for lMonitorCycle (varMonitorCycle or iMonitorCycle).
  When the status is established, the OnDeviceStatus function of the user application is executed.
- Use the line feed symbol to separate the character string specified for the device list. The line feed symbol is not necessary to be suffixed to the last device.
  Example:

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "D1" & vbLf & "D2"
When using Visual C++ .NET:	D0\nD1\nD2
When using Visual C# .NET:	D0\nD1\nD2

- The maximum number of device points that can be specified for lSize (varSize or iSize) is 20 points.
- Specify a value within the range from 1 second to 1 hour (set between 1 and 3600 in seconds) for lMonitorCycle (varMonitorCycle or iMonitorCycle).
  An error occurs when any other value outside the above range is specified.
- The registered device value list is stored in lData (lplData, varData, or iData).

How to specify devices

The following describes how to specify devices.

■When devices are specified as follows (Number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript:	"M0" & vbLf & "D0" & vbLf & "K8M0"
When using Visual C++ .NET:	M0\nD0\nK8M0
When using Visual C# .NET:	M0\nD0\nK8M0

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	M0
	D0
M16 to M31*1	M0 to M15*1

*1 Devices are stored from the lower bit in the order of device number.

■When double word devices are specified

When using Visual Basic .NET, VBA, VBScript:	"LTN0" & vbLf & "LTN1" & vbLf & "LTN2"
When using Visual C++ .NET:	LTN0\nLTN1\nLTN2
When using Visual C# .NET:	LTN0\nLTN1\nLTN2

Upper 2 bytes	Lower 2 bytes
H of LTN0	L of LTN0
H of LTN1	L of LTN1
H of LTN2	L of LTN2

■When devices including CN200 and later of FXCPU are specified (Total number of points: 3 points)

For CN200 or later devices of FXCPU, 2 words are read for each point when reading devices randomly.

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "CN200" & vbLf & "D1"
When using Visual C++ .NET: D0\nCN200\nD1
When using Visual C# .NET: D0\nCN200\nD1

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0
H of CN200	L of CN200
Not used (0 is stored.)	D1

■When devices including FD are specified (Total number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "FD0" & vbLf & "D1"
When using Visual C++ .NET: D0\nFD0\nD1
When using Visual C# .NET: D0\nFD0\nD1

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0
	LL of FD0
	D1

■When devices including EG are specified (Total number of points: 3 points)

The following is the example when 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0.

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "EG0" & vbLf & "D1"
When using Visual C++ .NET: D0\nEG0\nD1
When using Visual C# .NET: D0\nEG0\nD1

Upper 2 bytes	Lower 2 bytes	
Not used (0 is stored.)	D0	
	EG0	
	(E0001)	(E0000)
	D1	

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for checking word device status

When checking the word device status for negative values of -1 to -32768 (FFFFH to 8000H), set the monitor device value of the EntryDeviceStatus function to any of 65535 to 32768 (0000FFFFH to 00008000H) where "0" is stored in the upper 2 bytes.

Example: When checking the D0 status for "-10"

Set the value "65526 (0000FFF6H)" where "0" is stored in the upper 2 bytes of "-10 (FFFFFFF6H)" for the monitor device value.

While the type of word devices of the programmable controller CPU is WORD type, the type of monitor device value of the EntryDeviceStatus function is LONG type.

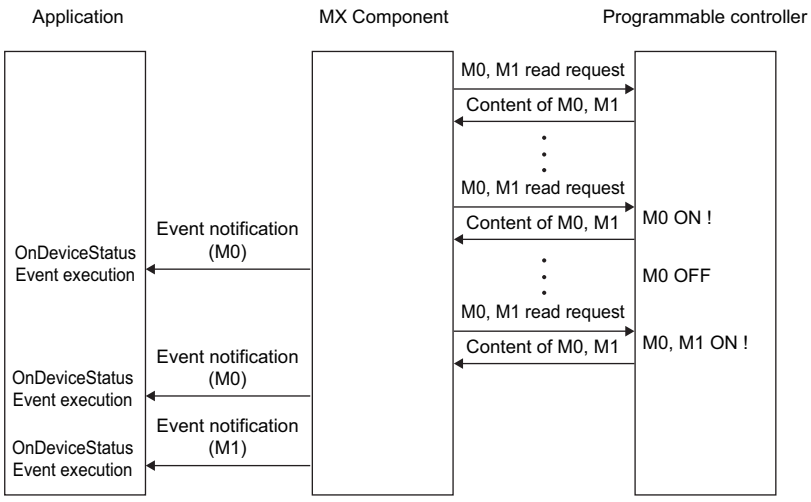
Therefore, when current values of programmable controller CPU are compared with monitor device values of the EntryDeviceStatus function, the values do not match and the above setting is required. (When bit devices or double word devices are used, this consideration does not apply.)

For the programming examples regarding this consideration, refer to the following section.

☞ Page 583 Programming Examples for Monitoring Word Device Status

Point

- Device status monitoring may not be performed at the specified status monitoring time intervals depending on the conditions: personal computer performance, currently executed application load, time required for communication with the programmable controller, or the like.
  Simultaneous use of any other control functions would also be the cause of disabling device status monitoring at the specified status monitoring time ntervals.
- For lData (lplData, lpvarData, or iData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- An error occurs when the EntryDeviceStatus function is executed during a status monitoring.
  When changing any status monitor condition, execute the FreeDeviceStatus function and then execute the EntryDeviceStatus function.
- When the status of multiple devices changes at the same time, the OnDeviceStatus event is executed every time the status changes.
  (Example: When M0 is monitored)



- This function is a function to check the status establishment under the constant execution of random device read by the control.
  This function is not a function for a programmable controller CPU to notify the device status establishment to MX Component.
  Therefore, the control may not be able to check the device status establishment of programmable controller CPU depending on the specified status monitoring time interval.

FreeDeviceStatus (Deregistering devices for status monitoring)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.

(Not applicable to inverter communication/robot controller communication.)

Feature

Deregister devices that are registered using the EntryDeviceStatus function to monitor their status.

Format (Dispatch interface)

■Visual C++ .NET(MFC), VBA

lRet = object.FreeDeviceStatus()

Long	lRet	Returned value	Output

■VBScript

varRet = object.FreeDeviceStatus()

VARIANT	varRet	Returned value (LONG type)	Output

■Visual Basic .NET

lRet = object.FreeDeviceStatus()

Integer	lRet	Returned value	Output

■Visual C++ .NET

iRet = object. FreeDeviceStatus()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object. FreeDeviceStatus()

int	iRet	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.FreeDeviceStatus(*lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

The devices that are set using the EntryDeviceStatus function to monitor their status are deregistered.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

OnDeviceStatus (Event notification)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Execute the event notification when the device condition registered using the EntryDeviceStatus function is satisfied.

Format (Dispatch interface)

■VBA

object.OnDeviceStatus(szDevice, lData, lReturnCode)

String	szDevice	Name of device whose condition is satisfied	Input
Long	lData	Value of device whose condition is satisfied	Input
Long	lReturnCode	Returned value of condition check processing	Input

■Visual C++ .NET(MFC)

object.OnDeviceStatus(*szDevice, lData, lReturnCode)

LPCTSTR	*szDevice	Name of device whose condition is satisfied	Input
Long	lData	Value of device whose condition is satisfied	Input
Long	lReturnCode	Returned value of condition check processing	Input

■VBScript

object.OnDeviceStatus(varDevice, varData, varReturnCode)

VARIANT	varDevice	Name of device whose condition is satisfied (BSTR type)	Input
VARIANT	varData	Value of device whose condition is satisfied (LONG type)	Input
VARIANT	varReturnCode	Returned value of condition check processing (LONG type)	Input

■Visual Basic .NET

Private Sub object_OnDeviceStatus(ByVal sender As System.Object,
ByVal e As objectLib. _objectIEvents_OnDeviceStatusEvent)

sender	Event occurrence source	Output
e	Event data	Output
The following are the members of e.		
e.szDevice	Name of device whose condition is satisfied	
e.lReturnCode	Value of device whose condition is satisfied	
e.lData	Returned value of condition check processing	

■Visual C++ .NET

private: System::Void object_OnDeviceStatus (System::Object * sender, objectLib. ::_objectIEvents_OnDeviceStatusEvent * e)

sender	Event occurrence source	Output
e	Event data	Output
The following are the members of e.		
e->szDevice	Name of device whose condition is satisfied	
e->lReturnCode	Value of device whose condition is satisfied	
e->lData	Returned value of condition check processing	

■Visual C# .NET

private void object_OnDeviceStatus
(object sender,object._IActUtlTypeEvents_OnDeviceStatusEvent e)

sender	Event occurrence source	Output
e	Event data	Output
The following are the members of e.		
e->szDevice	Name of device whose condition is satisfied	
e->lReturnCode	Returned value of condition check processing	
e->lData	Value of device whose condition is satisfied	

Format (Custom interface)

■Visual C++ .NET(MFC)

object.OnDeviceStatus(szDevice, lData, lReturnCode, *lplRetCode)

LPCTSTR	szDevice	Name of device whose condition is satisfied	Input
LONG	lData	Value of device whose condition is satisfied	Input
LONG	lReturnCode	Returned value of condition check processing	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The event is notified to the application when the device condition registered using the EntryDeviceStatus function is satisfied.
  Programming this function in the user application allows the application to receive the event when the registered device condition is satisfied.
- Device values registered using the EntryDeviceStatus function are input to lData (varData).
  Example: When the word device is monitored for the value of "-1"
  Set 65535 (0000FFFFH) as a registered device value using the EntryDeviceStatus function.
  When the value of the target word device of the programmable controller CPU becomes "-1" (FFFFH), the OnDeviceStatus function is executed and (0000FFFFH) is input to lData (varData).

Returned value

None

Point

- When any of the following settings is set in the user application, the event of the OnDeviceStatus function does not occur even if the condition of the device registered to the EntryDeviceStatus function is satisfied. Note that when the event occurrence becomes in wait status, the control function is not returned to the control and device management processing stops until the following setting is terminated.
  (1) User applications created using Visual Basic .NET or VBA (Excel)
  · The message box is displayed in the user application.
  · The InputBox/OutputBox is displayed in the user application.
  (2) User applications created using Visual Basic .NET, Visual C++ .NET, Visual C# .NET, VBA (Excel, Access) or VBScript
  · The Sleep processing, WaitForSingleObject function, or similar standby function is used in the user application.
- For installing Reference, refer to the sample programs for Reference for VB .NET/VC .NET.(☞ Page 536 Visual Basic .NET Sample Programs, Page 544 Visual C++ .NET Sample Programs)

ReadDeviceBlock2 (Reading devices in bulk)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Read devices in 2-byte data unit in bulk.

Format (Dispatch interface)

■VBA

lRet = object.ReadDeviceBlock2(szDevice, lSize, iData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Integer	iData(n)	Read device value	Output

■Visual C++ .NET(MFC)

lRet = object.ReadDeviceBlock2(szDevice, lSize, *lpsData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Short	*lpsData	Read device value	Output

■VBScript

varRet = object.ReadDeviceBlock2(varDevice, varSize, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varSize	Number of read points (LONG type)	Input
VARIANT	lpvarData	Read device value (SHORT type)	Output

■Visual Basic .NET

lRet = object.ReadDeviceBlock2(szDevice, lSize, sData(0))

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	lSize	Number of read points	Input
short	sData(n)	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceBlock2(*szDevice, iSize, *lpsData)

int	iRet	Returned value	Output
String	*szDevice	Device name	Input
int	iSize	Number of read points	Input
short	*lpsData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceBlock2(szDevice, iSize, out sData[0])

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iSize	Number of read points	Input
short[n]	sData	Read device value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadDeviceBlock2(szDevice, lSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of read points	Input
SHORT	*lpsData	Read device value	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The device values of lSize (varSize or iSize) are read in bulk starting from the device specified for szDevice (varDevice) as SHORT type data.
- The read device values are stored in iData (lpsData, lpvarData, or sData).
- For lData (lpsData, lpvarData, or sData), reserve arrays for more than the amount specified for lSize (varSize or iSize).

How to specify devices

The following describes how to specify devices.

■When bit device is specified

Example: Read 3 points (3 words) of data in 16-point unit starting from M0.

2 Bytes
M0 to M15*1
M16 to M31*1
M32 to M47*1

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Read 3 points of data starting from D0.

2 Bytes
D0
D1
D2

■When double-word device is specified

Example: Read 3 points from LTN0

2 Bytes
L of LTN0
L of LTN1
L of LTN2

■When CN200 and later devices of FXCPU are specified

Example: Read 6 points of data starting from CN200.

For CN200 or later device of FXCPU, 2 words are read for each 2 points. Reading only 1 point will result in an error.

2 Bytes
L of CN200
H of CN200
L of CN201
H of CN201
L of CN202
H of CN202

■When FD device is specified (4-word device)

Example: Read 6 points of data starting from FD0.

2 Bytes
LL of FD0
LH of FD0
HL of FD0
HH of FD0
LL of FD1
LH of FD1

■8-bit devices assigned to gateway devices

Example: Read 4 points of data starting from EG0.

(When 8-bit devices (from E0000 to E0007 of SHARP programmable controller) are assigned from EG0 to EG3.)

2 Bytes	
EG0	
(E0001)	(E0000)
EG1	
(E0003)	(E0002)
EG2	
(E0005)	(E0004)
EG3	
(E0007)	(E0006)

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points that can be specified for lSize (varSize) should be the value which satisfies the following condition.
  Read starting device number + Number of read points ≤ Last device number
- When specifying bit devices, a multiple of 16 can be specified as a device number.
- For iData (lpsData, lpvarData, or sData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.

WriteDeviceBlock2 (Writing devices in bulk)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Write devices in 2-byte data unit in bulk.

Format (Dispatch interface)

■VBA

lRet = object.WriteDeviceBlock2(szDevice, lSize, iData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Integer	iData(n)	Device value to be written	Input

■Visual C++ .NET(MFC)

lRet = object.WriteDeviceBlock2(szDevice, lSize, *lpsData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Short	*lpsData	Device value to be written	Input

■VBScript

varRet = object.WriteDeviceBlock2(varDevice, varSize, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varSize	Number of write points (LONG type)	Input
VARIANT	varData	Device value to be written (SHORT type)	Input

■Visual Basic .NET

lRet = object.WriteDeviceBlock2(szDevice, lSize, sData(0))

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	lSize	Number of write points	Input
short	sData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceBlock2(*szDevice, iSize, *lpsData)

int	iRet	Returned value	Output
String	*szDevice	Device name	Input
int	iSize	Number of write points	Input
short	*lpsData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceBlock2(szDevice, iSize, ref sData[0])

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iSize	Number of write points	Input
short[n]	sData	Device value to be written	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.WriteDeviceBlock2(szDevice, lSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of write points	Input
SHORT	*lpsData	Device value to be written	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The device values of lSize (varSize or iSize) are written in bulk starting from the device specified for szDevice (varDevice).
- The device values to be written are stored in lData (lpsData, varData, or sData).
- For iData (lpsData, varData, or sData), reserve arrays for more than the amount specified for lSize(varSize or iSize).

How to specify devices

The following describes how to specify devices.

■When bit device is specified

Example: Write 3 points (3 words) of data in 16-point unit starting from M0.

2 Bytes
M0 to M15*1
M16 to M31*1
M32 to M47*1

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Write 3 points of data starting from D0.

2 Bytes
D0
D1
D2

■When double-word device is specified

Example: Write 3 points to LTN0

2 Bytes
L of LTN0
L of LTN1
L of LTN2

■When CN200 and later devices of FXCPU are specified

Example: Write 6 points of data starting from CN200.

For CN200 or later device of FXCPU, 2 words are written for each 2 points. Writing only 1 point will result in an error.

2 Bytes
L of CN200
H of CN200
L of CN201
H of CN201
L of CN202
H of CN202

■When FD device is specified (4-word device)

Example: Write 6 points of data starting from FD0.

2 Bytes
LL of FD0
LH of FD0
HL of FD0
HH of FD0
LL of FD1
LH of FD1

■8-bit devices assigned to gateway devices

Example: Write 4 points of data starting from EG0.

(When 8-bit devices (from E0000 to E0007 of SHARP programmable controller) are assigned from EG0 to EG3.)

2 Bytes	
EG0	
(E0001)	(E0000)
EG1	
(E0003)	(E0002)
EG2	
(E0005)	(E0004)
EG3	
(E0007)	(E0006)

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points that can be specified for lSize (varSize or iSize) should be the value which satisfies the following condition.
  Write starting device number + Number of write points ≤ Last device number
- When specifying bit devices, a multiple of 16 can be specified as a device number.
- For iData (lpsData, varData, or sData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- WriteDeviceBlock or WriteDeviceBlock2 cannot be used for writing long timer device (LT) and retentive long timer device (LST).
  Use WriteDeviceRandom, WriteDeviceRandom2, SetDevice or SetDevice2.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

ReadDeviceRandom2 (Reading devices randomly)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Read devices in 2-byte data unit randomly.

Format (Dispatch interface)

■VBA

lRet = object.ReadDeviceRandom2(szDeviceList, lSize, iData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Long	lSize	Number of read points	Input
Integer	iData(n)	Read device value	Output

■Visual C++ .NET(MFC)

lRet = object.ReadDeviceRandom2(szDeviceList, lSize, *lpsData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name	Input
Long	lSize	Number of read points	Input
Short	*lpsData	Read device value	Output

■VBScript

varRet = object.ReadDeviceRandom2(varDeviceList, varSize, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDeviceList	Device name (character string type)	Input
VARIANT	varSize	Number of read points (LONG type)	Input
VARIANT	lpvarData	Read device value (SHORT type)	Output

■Visual Basic .NET

lRet = object.ReadDeviceRandom2(szDeviceList, lSize, sData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Integer	lSize	Number of read points	Input
short	sData(n)	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceRandom2(*szDeviceList, iSize, *lpsData)

int	iRet	Returned value	Output
String	*szDeviceList	Device name	Input
int	iSize	Number of read points	Input
short	*lpsData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceRandom2(szDevice, iSize, out sData[0])

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iSize	Number of read points	Input
short[n]	sData	Read device value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadDeviceRandom2(szDeviceList, lSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Device name	Input
LONG	lSize	Number of read points	Input
SHORT	*lpsData	Read device value	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- Data of a device group for the size of lSize (varSize or iSize) specified for szDeviceList (varDeviceList or szDevice) are read.
- The read device values are stored in iData (lpsData, lpvarData, or sData).
- Use the line feed symbol to separate the character string specified for the device list. The line feed symbol is not necessary to be suffixed to the last device.

  Example:

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "D1" & vbLf & "D2"
When using Visual C++ .NET:	D0\nD1\nD2
When using Visual C# .NET:	D0\nD1\nD2

- For lData (lpsData, lpvarData, or sData), reserve arrays for more than the amount specified for lSize (varSize or iSize).

How to specify devices

The following describes how to specify devices.

■When devices are specified as follows (Number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript:	"M0" & vbLf & "D0" & vbLf & "K8M0"
When using Visual C++ .NET:	M0\nD0\nK8M0
When using Visual C# .NET:	M0\nD0\nK8M0

2 Bytes
M0[*1]
D0
M0 to M15[*2]

*1 The target device from which data is read is only one point of "M0", and "0" or "1" is stored as the device value.

*2 Devices are stored from the lower bit in the order of device number.
Data are not read from the upper 2 bytes of M16 to M31.

■When double word devices are specified

When using Visual Basic .NET, VBA, VBScript:	"LTN0" & vbLf & "LTN1" & vbLf & "LTN2"
When using Visual C++ .NET:	LTN0\nLTN1\nLTN2
When using Visual C# .NET:	LTN0\nLTN1\nLTN2

2 Bytes
L of LTN0
L of LTN1
L of LTN2

■When devices including CN200 or later of FXCPU is specified (Total number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "CN200" & vbLf & "D1"
When using Visual C++ .NET: D0\nCN200\nD1
When using Visual C# .NET: D0\nCN200\nD1

2 Bytes
D0
L of CN200*1
D1

*1 For CN200 and later devices of FXCPU, the L (lower 2 bytes) of the specified devices is read for each point when the ReadDeviceRandom2 function is executed.
The H (upper 2 bytes) of the specified devices is not read.

■When devices including FD are specified (Total number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "FD0" & vbLf & "D1"
When using Visual C++ .NET: D0\nFD0\nD1
When using Visual C# .NET: D0\nFD0\nD1

2 Bytes
D0
LL of FD0
D1

■When devices including EG are specified (Total number of points: 3 points)

The following is the example when 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0.

When using Visual Basic .NET, VBA, VBScript: "D0" & vbLf & "EG0" & vbLf & "D1"
When using Visual C++ .NET: D0\nEG0\nD1
When using Visual C# .NET: D0\nEG0\nD1

2 Bytes	
D0	
EG0	
(E0001)	(E0000)
D1	

Returned value

Normal termination: 0 is returned.
Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points that can be specified for lSize (varSize or iSize) is 0x7FFFFFFF points.
- For iData (lpsData, lpvarData, or sData), reserve a memory area for the number of points specified for lSize (varSize or iSize).
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a double word device is specified, only the data of the lower 1 word (2 bytes) are stored using the ReadDeviceRandom2 function. (An error does not occur.)
  When reading data from a double word device, use the ReadDeviceRandom function or the GetDevice function.

WriteDeviceRandom2 (Writing devices randomly)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Write devices in 2-byte data unit randomly.

Format (Dispatch interface)

■VBA

lRet = object.WriteDeviceRandom2(szDeviceList, lSize,iData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Integer	iData(n)	Device value to be written	Input

■Visual C++ .NET(MFC)

lRet = object.WriteDeviceRandom2(szDeviceList, lSize,*lpsData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Short	*lpsData	Device value to be written	Input

■VBScript

varRet = object.WriteDeviceRandom2(varDeviceList, varSize,varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDeviceList	Device name (character string type)	Input
VARIANT	varSize	Number of write points (LONG type)	Input
VARIANT	varData	Device value to be written (SHORT type)	Input

■Visual Basic .NET

lRet = object.WriteDeviceRandom2(szDeviceList, lSize, sData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Integer	lSize	Number of write points	Input
short	sData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceRandom2(*szDeviceList, iSize, *lpsData)

int	iRet	Returned value	Output
String	*szDeviceList	Device name	Input
int	iSize	Number of write points	Input
short	*lpsData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceRandom2(szDevice, iSize, ref sData[0])

int	iRet	Returned value	Output
String	szDevice	Device name	Input
int	iSize	Number of write points	Input
short[n]	sData	Device value to be written	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.WriteDeviceRandom2(szDeviceList, lSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Device name	Input
LONG	lSize	Number of write points	Input
SHORT	*lpsData	Device value to be written	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- Data of a device group for the size of lSize (varSize or iSize) specified for szDeviceList (varDeviceList or szDevice) are written.
- The device values to be written are stored in iData (lpsData, varData, or sData).
- Use the line feed symbol to separate the character string specified for the device list. The line feed symbol is not necessary to be suffixed to the last device.

  Example:

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "D1" & vbLf & "D2"
When using Visual C++ .NET:	D0\nD1\nD2
When using Visual C# .NET:	D0\nD1\nD2

- For iData (lpsData, varData, or sData), reserve arrays for more than the amount specified for lSize (varSize or iSize).

How to specify devices

The following describes how to specify devices.

■When devices are specified as follows (Number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript:	"M0" & vbLf & "D0" & vbLf & "K8M0"
When using Visual C++ .NET:	M0\nD0\nK8M0
When using Visual C# .NET:	M0\nD0\nK8M0

2 Bytes
M0*1
D0
M0 to M15*2

*1 The target device to which data is written is only one point of "M0", and the least significant bit of the set 2-byte data is written as the device value.

*2 Devices are stored from the lower bit in the order of device number. "0" is written to the upper 2 bytes of M16 to M31.

■When double word devices are specified

When using Visual Basic .NET, VBA, VBScript:	"LTN0" & vbLf & "LTN1" & vbLf & "LTN2"
When using Visual C++ .NET:	LTN0\nLTN1\nLTN2
When using Visual C# .NET:	LTN0\nLTN1\nLTN2

2 Bytes
L of LTN0
L of LTN1
L of LTN2

■When devices including CN200 or later of FXCPU is specified (Total number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "CN200" & vbLf & "D1"
When using Visual C++ .NET:	D0\nCN200\nD1
When using Visual C# .NET:	D0\nCN200\nD1

2 Bytes
D0
L of CN200*1
D1

*1 For CN200 or later device of FXCPU, data is written to the L (lower 2 bytes) of the specified devices for each point when the WriteDeviceRandom2 function is executed. "0" is written to the H (upper 2 bytes) of the specified devices.

■When devices including FD are specified (Total number of points: 3 points)

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "FD0" & vbLf & "D1"
When using Visual C++ .NET:	D0\nFD0\nD1
When using Visual C# .NET:	D0\nFD0\nD1

2 Bytes
D0
LL of FD0
D1

■When devices including EG are specified (Total number of points: 3 points)

The following is the example when 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0.

When using Visual Basic .NET, VBA, VBScript:	"D0" & vbLf & "EG0" & vbLf & "D1"
When using Visual C++ .NET:	D0\nEG0\nD1
When using Visual C# .NET:	D0\nEG0\nD1

2 Bytes	
D0	
EG0	
(E0001)	(E0000)
D1	

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points that can be specified for lSize (varSize or iSize) is 0x7FFFFFFF points.
- For iData (lpsData, varData, or sData), reserve a memory area for the number of points specified for lSize (varSize or iSize)..
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a double word device is specified, data are written to the data area of the lower 1 word (2 bytes) using the WriteDeviceRandom2 function, and "0" is written to the data area of the upper 1 word (2 bytes).
  When writing a double word device, use the WriteDeviceRandom function or the SetDevice function.
- If a Q motion CPU is accessed, an error is returned.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

SetDevice2 (Set device data)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Set one point of device in 2-byte data unit.

Format (Dispatch interface)

■VBA

lRet = object.SetDevice2(szDevice, iData)

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iData	Set data	Input

■Visual C++ .NET(MFC)

lRet = object.SetDevice2(szDevice, sData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Short	sData	Set data	Input

■VBScript

varRet = object.SetDevice2(varDevice, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varData	Set data (SHORT type)	Input

■Visual Basic .NET

lRet = object.SetDevice2(szDevice, sData)

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
short	sData	Set data	Input

■Visual C++ .NET

iRet = object.SetDevice2(*szDevice, sData)

int	iRet	Returned value	Output
String	*szDevice	Device name	Input
short	sData	Set data	Input

■Visual C# .NET

iRet = object.SetDevice2(szDevice, sData)

int	iRet	Returned value	Output
String	szDevice	Device name	Input
short	sData	Set data	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.SetDevice2(szDevice, sData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
SHORT	sData	Set data	Input
LONG	*lplRetCode	Returned value of communication function	Output

Description

- One point of device specified for szDevice (varDevice) is specified using iData (sData or varData).
- When specifying bit devices, the least significant bit of the iData value (sData value or varData value) is valid.

How to specify devices

The following describes how to specify devices.

■When bit device is specified

Example: M0

2 Bytes
M0*1

*1 The target device to which data is written is only one point of "M0", and the least significant bit of the set 2-byte data is written as the device value.

■When word device is specified

Example: D0

2 Bytes
D0

■When double-word device is specified

Example: LTN0

2 Bytes
L of LTN0

■When double-word device is specified (Digit specification)

Example: K8M0

2 Bytes
M0 to M15*1

*1 Devices are stored from the lower bit in the order of device number. "0" is written to the upper 2 bytes of M16 to M31.

■When CN200 or later device of FXCPU is specified

Example: CN200

2 Bytes
L of CN200*1

*1 For CN200 and later devices of FXCPU, data are written to the L (lower 2 bytes) of the specified devices for each point when the SetDevice2 function is executed.
"0" is written to the H (upper 2 bytes) of the specified devices.

■When gateway device is specified

Example: When 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0

2 Bytes	
EG0	
(E0001)	(E0000)

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When a double word device is specified, data are written to the data area of the lower 1 word (2 bytes) using the SetDevice2 function, and "0" is written to the data area of the upper 1 word (2 bytes).
  When writing a double word device, use the WriteDeviceRandom function or the SetDevice function.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

GetDevice2 (Acquiring device data)

Applicable controls

Applicable to the Act(ML)ProgType control and the Act(ML)UtlType control.
(Not applicable to inverter communication/robot controller communication.)

Feature

Acquire one point of device in 2-byte data unit.

Format (Dispatch interface)

■VBA

lRet = object.GetDevice2(szDevice, iData)

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iData	Acquired data	Output

■Visual C++ .NET(MFC)

lRet = object.GetDevice2(szDevice, *lpsData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Short	*lpsData	Acquired data	Output

■VBScript

varRet = object.GetDevice2(varDevice, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	lpvarData	Acquired data (SHORT type)	Output

■Visual Basic .NET

lRet = object.GetDevice2(szDevice, sData)

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
short	sData	Acquired data	Output

■Visual C++ .NET

iRet = object.GetDevice2(*szDevice, *spsData)

int	iRet	Returned value	Output
String	*szDevice	Device name	Input
short	*spsData	Acquired data	Output

■Visual C# .NET

iRet = object.GetDevice2(szDevice, out sData)

int	iRet	Returned value	Output
String	szDevice	Device name	Input
short	sData	Acquired data	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.GetDevice2(szDevice, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
SHORT	*lpsData	Acquired data	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

One point of device data specified for szDevice (varDevice) is stored in iData (lpsData, lpvarData, or sData).

How to specify devices

The following describes how to specify devices.

■When bit device is specified

Example: M0

2 Bytes
M0*1

*1 The target device from which data is read is only one point of "M0", and "0" or "1" is stored as the device value.

■When word device is specified

Example: D0

2 Bytes
D0

■When double-word device is specified

Example: LTN0

2 Bytes
L of LTN0

■When double-word device is specified (Digit specification)

Example: K8M0

2 Bytes
M0 to M15*1

*1 Devices are stored from the lower bit in the order of device number.
Data are not read from the upper 2 bytes of M16 to M31.

■When CN200 or later device of FXCPU is specified

Example: CN200

2 Bytes
L of CN200*1

*1 For CN200 and later devices of FXCPU, the L (lower 2 bytes) of the specified devices is read for each point when the GetDevice2 function is executed.
The H (upper 2 bytes) of the specified devices is not read.

■When gateway device is specified

Example: When 8-bit devices (E0000 and E0001 of SHARP programmable controller) are assigned to EG0

2 Bytes	
EG0	
(E0001)	(E0000)

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When a double word device is specified, only the data of the lower 1 word (2 bytes) are stored using the GetDevice2 function. (An error does not occur.)
- When reading data from a double word device, use the ReadDeviceRandom function or the GetDevice function.

Connect (Connecting telephone line)

Applicable controls

Applicable to the ActProgType control and the ActUtlType control.
(Applicable to the modem communication only.)

Feature

Connect the telephone line.

Format (Dispatch interface)

■Visual C++ .NET(MFC), VBA

lRet = object.Connect()

Long	lRet	Returned value	Output

■Visual Basic .NET

lRet = object.Connect()

Integer	lRet	Returned value	Output

■Visual C++ .NET

iRet = object.Connect()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object. Connect()

int	iRet	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.Connect(*lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The telephone line is connected according to the property settings of the modem communication control.
- When routing a serial communication module, the telephone line is connected in the connection system set in the ActConnectWay property.
  When auto line connect (callback number specification), callback connect (number specification), or callback request (number specification) is set in the ActConnectWay property, an error occurs if a number is not set in the ActCallbackNumber property.

Returned value

Normal termination: 0 is returned.
Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for executing the Connect function

- Always connect the telephone line before the execution of the Open function.
- When disconnecting the telephone line, execute the Disconnect function.
  During the execution of the Connect function, the telephone line remains connected even when the Open and Close functions are executed repeatedly.
- If the telephone line is disconnected in the Open status for some reason, always execute the Close function before reconnecting the telephone line.

Considerations when using multiple telephone line connection objects

- When control types, port numbers, and telephone numbers of controls are different
  When control types, port numbers, and telephone numbers set to multiple controls are different, an error (error code: 0xF1000016) occurs if the Connect function is executed to connect the control whose port number and telephone number are different from those of the control which executed the Connect function first.
- When port numbers and telephone numbers of controls are the same
  When control types, port numbers, and telephone numbers set to multiple controls are the same, the termination status are different according to the connection system of the callback function. The following table shows the relations between the connection system and the termination status of the callback function.

○ Normal termination ×: Abnormal termination (Error occurrence)

Connection system of control which executed the Connect function first	**Connection system of control which executed the Connect function second or Later**			
	Auto line connect Auto line connect (Callback fixation) Auto line connect (Callback number specification)	**Callback connect (Fixation) Callback connect (Number specification)**	**Callback request (Fixation) Callback request (Number specification)**	**Callback reception waiting**
Auto line connect Auto line connect (Callback fixation) Auto line connect (Callback number specification)	○	○	×	×
Callback connect (Fixation) Callback connect (Number specification)	○	○	×	×
Callback request (Fixation) Callback request (Number specification)	○	○	○	○
Callback reception waiting	×	×	×	○

Disconnect (Disconnecting telephone line)

Applicable controls

Applicable to the ActProgType control and the ActUtlType control.

(Applicable to the modem communication only.)

Feature

Disconnect the telephone line.

Format (Dispatch interface)

■Visual C++ .NET(MFC), VBA

lRet = object.Disconnect()

Long	lRet	Returned value	Output

■Visual Basic .NET

lRet = object.Disconnect()

Integer	lRet	Returned value	Output

■Visual C++ .NET

iRet = object.Disconnect()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object. Disconnect ()

int	iRet	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.Disconnect(*lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

The telephone line that was connected using the Connect function is disconnected.

Returned value

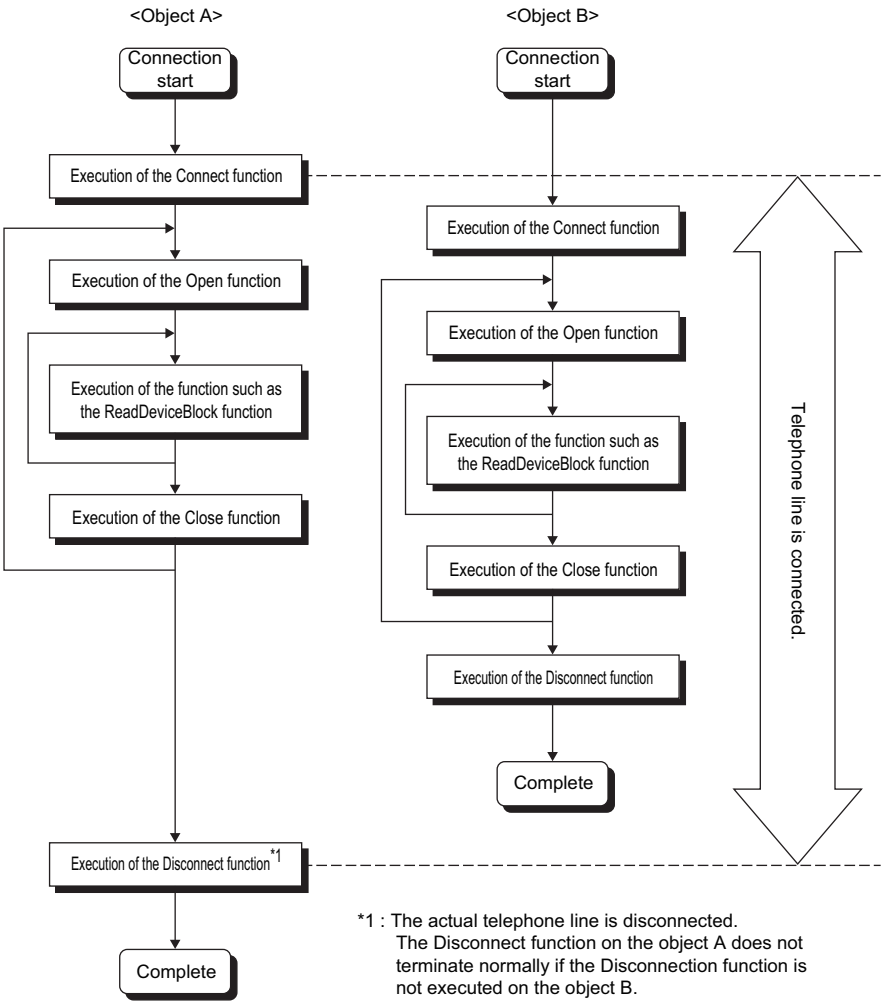
Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for executing the Disconnect function

- When executing the Disconnect function during the execution of the Open function, execute the Close function before executing the Disconnect function.
- If the telephone line is disconnected in the Open status for some reason, always execute the Close function before reconnecting the telephone line.
- When multiple telephone line connection objects are used, execute the Disconnect function on the object which executed the Connect function first after executing the Disconnect function on other objects.
  When multiple telephone line connection objects are used, the telephone line is not disconnected if the Disconnect function is not executed on the object that executed the Connect function first.
  The following figure shows the example of how to use multiple objects simultaneously.

Example: When using two controls simultaneously
(Including the case when the objects A and B are operated by different applications)



*1 : The actual telephone line is disconnected.
The Disconnect function on the object A does not terminate normally if the Disconnection function is not executed on the object B.

GetErrorMessage (Receiving error message)

Applicable controls

Applicable to the Act(ML)SupportMsg control.

(Not applicable to inverter communication)

Feature

Receive the error description and its corrective action corresponding to the error code.

Format (Dispatch interface)

■VBA

lRet = object.GetErrorMessage(lErrorCode, szErrorMessage)

Long	lRet	Returned value	Output
Long	lErrorCode	Error code	Input
String	szErrorMessage	Error message	Output

■Visual C++ .NET(MFC)

lRet = object.GetErrorMessage(lErrorCode, *lpszErrorMessage)

Long	lRet	Returned value	Output
Long	lErrorCode	Error code	Input
BSTR	*lpszErrorMessage	Error message	Output

■VBScript

varRet = object.GetErrorMessage(varErrorCode, lpvarErrorMessage)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varErrorCode	Error code (LONG type)	Input
VARIANT	lpvarErrorMessage	Error message (character string type)	Output

■Visual Basic .NET

lRet = object.GetErrorMessage(lErrorCode, szErrorMessage)

Integer	lRet	Returned value	Output
Integer	lErrorCode	Error code	Input
String	szErrorMessage	Error message	Output

■Visual C++ .NET

iRet = object.GetErrorMessage(iErrorCode, **lpsErrorMessage)

int	iRet	Returned value	Output
int	iErrorCode	Error code	Input
String	**lpsErrorMessage	Error message	Output

■Visual C# .NET

iRet = object.GetErrorMessage(iErrorCode, out szErrorMessage)

int	iRet	Returned value	Output
int	iErrorCode	Error code	Input
String	szErrorMessage	Error message	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.GetErrorMessage(lErrorCode, *lpszErrorMessage, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lErrorCode	Error code	Input
BSTR	*lpszErrorMessage	Error message	Output
LONG	*lplRetCode	Returned value of communication function	Output

Description

- The error description and its corrective action of the error code specified for lErrorCode (varErrorCode or iErrorCode) are read.
- The read error description and its corrective action are stored in szErrorMessage (lpszErrorMessage, lpsvarErrorMessage, or lpvarErrorMessage).

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

5.3 Details of Functions (For ACT Control (Logging File Transfer))

Open (Opening communication line)

Applicable controls

Applicable to the ActProgDataLogging control and the ActUtlDataLogging control.

Feature

Open the communication line.

Format (Dispatch interface)

■Visual C++ .NET(MFC), VBA

IRet = object.Open()

Long	IRet	Returned value	Output

■Visual Basic .NET

IRet = object.Open()

Integer	IRet	Returned value	Output

■Visual C# .NET

iRet = object.Open()

int	iRet	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.Open(*lplReturnCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplReturnCode	Returned value of communication function	Output

Description

Lines are connected according to the set value of the Open function property.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- If the Open function property is changed after the completion of the Open function, the setting of communication target is not changed.
  To change the communication setting, close the communication line, set the setting of communication target, and open the communication line again.
- Even when a CPU type which is different from the one used for the communication is set to the ActCpuType property, the Open function may be completed normally.
  When executing the Open function, set the correct CPU type to the ActCpuType property.

Close (Closing communication line)

Applicable controls

Applicable to the ActProgDataLogging control and the ActUtlDataLogging control.

Feature

Close the communication line.

Format (Dispatch interface)

■Visual C++ .NET(MFC), VBA

IRet = object.Close()

Long	IRet	Returned value	Output

■Visual Basic .NET

IRet = object.Close()

Integer	IRet	Returned value	Output

■Visual C# .NET

iRet = object.Close()

int	iRet	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.Close(*lplReturnCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplReturnCode	Returned value of communication function	Output

Description

The line connected using the Open function is closed.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- Call this function when an error occurred after calling the Open function or when exit the program.

ReadFirstFile (Searching for a file/directory)

Applicable controls

Applicable to the ActProgDataLogging control and the ActUtlDataLogging control.

Feature

Search a file or directly in the specified directory.

Format (Dispatch interface)

■Visual C++ .NET(MFC)

Ret = object.ReadFirstFile(srcDir, *srcFilename, *srcType)

Long	Ret	Returned value	Output
CString	srcDir	Directory name	Input
BSTR	*srcFileName	File name or directory name	Output
Long	*srcType	Type	Output

■Visual Basic .NET

Ret = object.ReadFirstFile(srcDir, srcFilename, srcType)

Integer	Ret	Returned value	Output
String	srcDir	Directory name	Input
String	srcFileName	File name or directory name	Output
Integer	srcType	Type	Output

■Visual C# .NET

Ret = object.ReadFirstFile(srcDir, out srcFilename, out srcType)

int	Ret	Returned value	Output
String	srcDir	Directory name	Input
String	srcFileName	File name or directory name	Output
int	srcType	Type	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadFirstFile(srcDir, *srcFilename, *srcType, *lplReturnCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	srcDir	Directory name	Input
BSTR	*srcFileName	File name or directory name	Output
LONG	*srcType	Type	Output
LONG	*lplReturnCode	Returned value of communication function	Output

Description

Search for a file or a directory in the specified directory.

- A read file name or directory name is stored in srcFileName.
- A value that identifies if the name set for srcFileName indicates a directory or file is stored in srcType.

  For a directory, '1' is stored in the 4th bit counted from the lowest-order position.

  As for a file, '0' is stored.

Example: When srcType is 24 (0x18), it indicates that the target is a directory.

Upper 3 byte	Lower 1 byte							
0	0	0	0	1	1	0	0	0

Example: When srcType is 16 (0x10), it indicates that the target is a file.

Upper 3 byte	Lower 1 byte							
0	0	0	0	1	0	0	0	0

Do not use the bits which are not described in the figure above.

- Files or directories under a sub directory are not searched.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The control does not return until the processing is completed.
- If two or more controls are called at the same time, the search result will be overwritten.
  To search multiple directories, generate controls for each directory.
- This function is available while logging is stopped.
- For srcDir, specify the length of a character string within 188 bytes.
- The search result is displayed randomly.

ReadNextFile (Searching for a file/directory)

Applicable controls

Applicable to the ActProgDataLogging control and the ActUtlDataLogging control.

Feature

After searching a file or directory with ReadFirstFile, search the next file or directory in the specified directory.

Format (Dispatch interface)

■Visual C++ .NET(MFC)

Ret = object.ReadFirstFile(srcDir, *srcFilename, *srcType)

Long	Ret	Returned value	Output
CString	srcDir	Directory name	Input
BSTR	*srcFileName	File name or directory name	Output
Long	*srcType	Type	Output

■Visual Basic .NET

Ret = object.ReadFirstFile(srcDir, srcFilename, srcType)

Integer	Ret	Returned value	Output
String	srcDir	Directory name	Input
String	srcFileName	File name or directory name	Output
Integer	srcType	Type	Output

■Visual C# .NET

Ret = object.ReadFirstFile(srcDir, out srcFilename, out srcType)

int	Ret	Returned value	Output
String	srcDir	Directory name	Input
String	srcFileName	File name or directory name	Output
int	srcType	Type	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadFirstFile(srcDir, *srcFilename, *srcType, *lplReturnCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	srcDir	Directory name	Input
BSTR	*srcFileName	File name or directory name	Output
LONG	*srcType	Type	Output
LONG	*lplReturnCode	Returned value of communication function	Output

Description

After searching for a file or directory using ReadFirstFile, search for the next file or directory in the specified directory.

- A read file name or directory name is stored in srcFileName.
- A value that identifies if the name set for srcFileName indicates a directory or file is stored in srcType.
  For a directory, '1' is stored in the 4th bit counted from the lowest-order position.
  As for a file, '0' is stored.
  Do not use the bits which are not described in the figure above.

Example: When srcType is 24 (0x18), it indicates that the target is a directory.

Upper 3 byte	Lower 1 byte							
0	0	0	0	1	1	0	0	0

Example: When srcType is 16 (0x10), it indicates that the target is a file.

Upper 3 byte	Lower 1 byte							
0	0	0	0	1	0	0	0	0

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The control does not return until the processing is completed.
- This function is available while logging is stopped.
- The search result is displayed randomly.

ReadClose (Ending the search)

Applicable controls

Applicable to the ActProgDataLogging control and the ActUtlDataLogging control.

Feature

End the search.

Format (Dispatch interface)

■Visual C++ .NET(MFC)

Ret = object.ReadClose()

Long	Ret	Returned value	Output

■Visual Basic .NET

Ret = object.ReadClose()

Integer	Ret	Returned value	Output

■Visual C# .NET

Ret = object.ReadClose()

int	Ret	Returned value	Output

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.ReadClose(*lplReturnCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplReturnCode	Returned value of communication function	Output

Description

End the search.

- The result for searching for a directory or file name is deleted.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The control does not return until the processing is completed.
- This function is available while logging is stopped.

GetFile (Transferring logging files)

Applicable controls

Applicable to the ActProgDataLogging control and the ActUtlDataLogging control.

Feature

Transfer a logging file.

Format (Dispatch interface)

■Visual C++ .NET(MFC)

Ret = object.GetFile(srcFileName , dstFileName)

Long	Ret	Returned value	Output
CString	srcFileName	Transfer source file name	Input
CString	dstFileName	Transfer destination file name	Input

■Visual Basic .NET

Ret = object.GetFile(srcFileName , dstFileName)

Integer	Ret	Returned value	Output
String	srcFileName	Transfer source file name	Input
String	dstFileName	Transfer destination file name	Input

■Visual C# .NET

Ret = object.GetFile(srcFileName , dstFileName)

int	Ret	Returned value	Output
String	srcFileName	Transfer source file name	Input
String	dstFileName	Transfer destination file name	Input

Format (Custom interface)

■Visual C++ .NET(MFC)

hResult = object.GetFile(srcFileName , dstFileName, *lplReturnCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	srcFileName	Transfer source file name	Input
BSTR	dstFileName	Transfer destination file name	Input
LONG	*lplReturnCode	Returned value of communication function	Output

Description

Transfer a logging file.

- The file specified for srcFileName is transferred to the file specified for dstFileName.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The control does not return until the processing is completed.
- This function is available while logging is stopped.
- Specify a character string for srcFileName within 318 bytes.
- Specify a character string for dstFileName within 259 bytes.

5.4 Details of Functions (For .NET Control)

Open (Opening communication line)

Applicable controls

Applicable to the DotUtlType control.

Feature

Open the communication line.

Format

■Visual Basic .NET

```
IRet = object.Open()
```

Integer	IRet	Returned value	Output

■Visual C++ .NET

```
iRet = object.Open()
```

int	iRet	Returned value	Output

■Visual C# .NET

```
iRet = object.Open()
```

int	iRet	Returned value	Output

Description

Lines are connected according to the set value of the Open function property.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When modem communication is used, the Open function cannot be executed without the execution of the Connect function.
- If the Open function property is changed after the completion of the Open function, the setting of communication target is not changed.
  To change the communication setting, close the communication line, set the setting of communication target, and open the communication line again.
- Even when a CPU type which is different from the CPU used for the communication is set to the ActCpuType property, the Open function may be completed normally.
  In such a case, the connection range, usable method, or device range may be narrowed.
  When executing the Open function, set the correct CPU type to the ActCpuType property.

Close (Closing communication line)

Applicable controls

Applicable to the DotUtlType control.

Feature

Close the communication line.

Format

■Visual Basic .NET

IRet = object.Close()

Integer	IRet	Returned value	Output

■Visual C++ .NET

iRet = object.Close()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object.Close()

int	iRet	Returned value	Output

Description

The line connected using the Open function is closed.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

ReadDeviceBlock (Reading devices in bulk)

Applicable controls

Applicable to the DotUtlType control.

Feature

Read devices in bulk.

Format

■Visual Basic .NET

IRet = object.ReadDeviceBlock(szLabel, iSize, iData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of read points	Input
Integer	iData(n)	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceBlock(szLabel, iSize, iData)

Int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of read points	Input
array<int>^	iData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceBlock(ref szLabel, iSize, ref iData)

Int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of read points	Input
int[n]	iData	Read device value	Output

Description

- The devices for the amount specified for iSize (number of read points) are read in bulk starting from the device specified for szLabel (label name).
- The read device values are stored in iData.
- For iData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Array		Label name
Array member	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String[*1], String (Unicode)[*1], Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name [number of elements] Label name [n1] [n2] [n3]

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of read points

Set the following values for the number of read points according to the label data type.

Label (array) data type	Number of applicable words	Number of read points to be specified
Bit	1	Number of label array elements divided by 16 (rounded up)
Word	1	Number of label array elements
Double Word, Float (Single Precision)	2	Number of label array elements multiplied by 2
Float (Double Precision)	4	Number of label array elements multiplied by 4
String	17	Number of label array elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label array elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label array elements

How to specify devices

The read device values are stored as follows.

■When bit device is specified

Example: Read 3 points of data (3 words = 48 bits) from the devices starting from M0.

· Label setting (Data type: Bit, Number of array elements: 48)

Data type	Device
Bit (0..47)	M0

·Number of read points: 3

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	M0 to M15[*1]
	M16 to M31[*1]
	M32 to M47[*1]

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Read 3 points of data from the devices starting from D0.

· Label setting (Data type: Bit, Number of array elements: 48)

Data type	Device
Word (0..2)	D0

·Number of read points: 3

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0
	D1
	D2

■When CN200 and later devices of FXCPU are specified

Example: Read 6 points of data from the devices starting from CN200.

For CN200 and later devices of FXCPU, 2 points of data are read from each 1 point of device (upper (H) and lower (L) data).

Reading only 1 point of data will result in an error.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	CN200

·Number of read points: 6

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	L of CN200
	H of CN200
	L of CN201
	H of CN201
	L of CN202
	H of CN202

■When FD device is specified (4-word device)

Example: Read 8 points of data from the devices starting from FD0.

·Label setting (Data type: Double Word, Number of array elements: 2)

Data type	Device
Double Word (0..1)	FD0

·Number of read points: 8

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	LL of FD0
	LH of FD0
	HL of FD0
	HH of FD0
	LL of FD1
	LH of FD1
	HL of FD1
	HH of FD1

■When label is Double Word array and word device is specified

Example: Read 6 points of data from the devices starting from D100.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	D100

·Number of read points: 6

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D100
	D101
	D102
	D103
	D104
	D105

■When long timer, long counter, or long retentive timer type is specified

Example: Read 3 points of data from the devices starting from LT0.

·Label setting (Data type: Long Timer, Number of array elements: 3)

Data type	Device
Long timer (0..2)	LT0

·Number of read points: 3

· Read device values

Upper 2 bytes	Lower 2 bytes
H of LT0	L of LT0
H of LT1	L of LT1
H of LT2	L of LT2

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points should be the value which satisfies the following condition.
  Read start device number + Number of read points ≤ Last device number
- When specifying bit type array labels, 0 or a multiple of 16 can be specified as a device number.
- For the number of read points, specify the number of words which applies to the data type specified for the label name.
  For the read device values, reserve a memory area for the number of points specified for the number of read points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be read.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be read.
- Digit specified bit device and index setting cannot be used.
- When using system label Ver.2, the data type defined in the Label Utility of MX Component and the data type managed by MELSOFT Navigator is required to match.
  If the data type does not match, the read data length may wrong, or when multiple labels are specified, the correspondence of the array of the read device value and label name may not match.

WriteDeviceBlock (Writing devices in bulk)

Applicable controls

Applicable to the DotUtlType control.

Feature

Write devices in bulk.

Format

■Visual Basic .NET

Ret = object.WriteDeviceBlock(szLabel, iSize, iData)

Integer	lRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of write points	Input
Integer	iData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceBlock(szLabel, iSize, iData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of write points	Input
array<int>^	ipiData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceBlock(ref szLabel, iSize, iData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of write points	Input
int[n]	iData	Device value to be written	Input

Description

- The devices for the amount specified for iSize (number of write points) are written in bulk starting from the device specified for szLabel (label name).
- The device values to be written are stored in iData.
- For iData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Array		Label name
Array member	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String[*1], String (Unicode)[*1], Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name [number of elements] Label name [n1] [n2] [n3]

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of write points

Set the following values for the number of write points according to the label data type.

Label (array) data type	Number of applicable words	Number of write points to be specified
Bit	1	Number of label array elements divided by 16 (rounded up)
Word	1	Number of label array elements
Double Word, Float (Single Precision)	2	Number of label array elements multiplied by 2
Float (Double Precision)	4	Number of label array elements multiplied by 4
String	17	Number of label array elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label array elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label array elements

How to specify devices

Set the device values to be written as follows.

■When bit device is specified

Example: Write 3 points of data (3 words = 48 bits) to the devices starting from M0.

· Label setting (Data type: Bit, Number of array elements: 48)

Data type	Device
Bit (0..47)	M0

· Number of write points: 3

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	M0 to M15[*1]
	M16 to M31[*1]
	M32 to M47[*1]

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Write 3 points of data to the devices starting from D0.

·Label setting (Data type: Word, Number of array elements: 3)

Data type	Device
Word (0..2)	D0

· Number of write points: 3

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	D0
	D1
	D2

■When CN200 and later devices of FXCPU are specified

Example: Write 6 points of data to the devices starting from CN200.

For CN200 and later devices of FXCPU, 2 points of data are written to each 1 point of device (upper (H) and lower (L) data). Writing only 1 point of data will result in an error.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	CN200

· Number of write points: 6

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	L of CN200
	H of CN200
	L of CN201
	H of CN201
	L of CN202
	H of CN202

■When FD device is specified (4-word device)

Example: Write 8 points of data to the devices starting from FD0.

·Label setting (Data type: Double Word, Number of array elements: 2)

Data type	Device
Double Word (0..1)	FD0

· Number of write points: 8

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	LL of FD0
	LH of FD0
	HL of FD0
	HH of FD0
	LL of FD1
	LH of FD1
	HL of FD1
	HH of FD1

■When label is Double Word array and word device is specified

Example: Write 6 points of data to the devices starting from D100.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	D100

· Number of write points: 6

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	D100
	D101
	D102
	D103
	D104
	D105

■When long timer, long counter, or long retentive timer type is specified

Example: Write 3 points of data from the devices starting from LT0.

·Label setting (Data type: Long Timer, Number of array elements: 3)

Data type	Device
Long timer (0..2)	LT0

· Number of write points: 3

·Device values to be written

Upper 2 bytes	Lower 2 bytes
H of LT0	L of LT0
H of LT1	L of LT1
H of LT2	L of LT2

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points should be the value which satisfies the following condition.
  Write starting device number + Number of write points ≤ Last device number
- When specifying bit type array labels, 0 or a multiple of 16 can be specified as a device number.
- For the number of write points, specify the number of words which applies to the data type specified for the label name.
  For the device values to be written, reserve a memory area for the number of points specified for the number of write points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be written.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be written.
- Digit specified bit device and index setting cannot be used.
- WriteDeviceBlock or WriteDeviceBlock2 cannot be used for writing long timer device (LT) and retentive long timer device (LST).
  Use WriteDeviceRandom, WriteDeviceRandom2, SetDevice or SetDevice2.
- When using system label Ver.2, the data type defined in the Label Utility of MX Component and the data type managed by MELSOFT Navigator is required to match.
  If the data type does not match, the read data length may wrong, or when multiple labels are specified, the correspondence of the array of the read device value and label name may not match.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

ReadDeviceRandom (Reading devices randomly)

Applicable controls

Applicable to the DotUtlType control.

Feature

Read devices randomly.

Format

■Visual Basic .NET

IRet = object.ReadDeviceRandom(szLabel, iSize, iData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of read points	Input
Integer	iData(n)	Read device value	Output

IRet = object.ReadDeviceRandom(szLabelList, iSize, iData)

Integer	IRet	Returned value	Output
String^	szLabel	Label list	Input
int	iSize	Number of read points	Input
array<int>^	iData	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceRandom(szLabel, iSize, iData)

Int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of read points	Input
array<int>^	iData	Read device value	Output

iRet = object.ReadDeviceRandom(szLabelList, iSize, iData)

Int	iRet	Returned value	Output
array<System::String ^>^	szLabelList	Label list	Input
int	iSize	Number of read points	Input
array<int>^	iData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceRandom(ref szLabel, iSize, ref iData)

Int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of read points	Input
int[n]	iData	Read device value	Output

iRet = object.ReadDeviceRandom(ref szLabelList, iSize, ref iData)

Int	iRet	Returned value	Output
System.String[n]	szLabelList	Label list	Input
int	iSize	Number of read points	Input
int[n]	iData	Read device value	Output

Description

- Data of a device group for the size of iSize specified for the label name szLabel (szLabelList) are read.
- The read device values are stored in iData.
- For iData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String[*1], String (Unicode)[*1], Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name
Array		Label name
Array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements] Label name [n1] [n2] [n3]
Structure		Label name
Structure member	(The label data type can be specified in the same manner as the basic type.)	Label name.Member name
Structured array		Label name [number of elements]
Structured array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements].Member name Label name [n1] [n2] [n3].Element

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of read points

For the number of read points, specify the sum of the following values correspond to the elements according to the label data type.

Label data type	Number of applicable words	Number of read points to be specified
Bit, Word	1	Number of label elements
Double Word, Float (Single Precision)	2	Number of label elements multiplied by 2
Float (Double Precision)	4	Number of label elements multiplied by 4
String	17	Number of label elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label elements

How to specify devices

The read device values are stored as follows.

■When bit device and word device are specified

Example: Read data from each 1 point of M0 and D0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit	M0
[1]	LABEL2	Word	D0

·Number of read points: 2

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	M0*1	LABEL1
	D0	LABEL2

*1 The target device from which data is read is only one point of "M0", and "0" or "1" is stored as the device value.

■When CN200 and later devices of FXCPU are specified

Example: Read 3 points of data from the devices including CN200.

For CN200 and later devices of FXCPU, 4 bytes are read as 1 read point.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	CN200
[2]	LABEL3	Word	D1

·Number of read points: 3

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	D0	LABEL1
H of CN200	L of CN200	LABEL2
Not used (0 is stored.)	D1	LABEL3

■When FD device is specified (4-word device)

Example: Read 3 points of data from the devices including FD0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	FD0
[2]	LABEL3	Word	D1

·Number of read points: 3

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	D0	LABEL1
	LL of FD0*1	LABEL2
	D1	LABEL3

*1 Only lower 2 bytes are read. Data are not read from the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Read data by specifying labels of Double Word, Float (Single Precision), Float (Double Precision), String[*1], and Time types.

[*1]The number of points of characters to be read is 17 (32 characters + NULL).

The characters need to be converted in a user program because the characters of String type are not converted.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Double Word	D0
[1]	LABEL2	Float (Single Precision)	D100
[2]	LABEL3	Float (Double Precision)	D200
[3]	LABEL4	String	D300
[4]	LABEL5	Time	D400

·Number of read points: 27

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	D0	LABEL1
	D1	
	D100	LABEL2
	D101	
	D200	LABEL3
	D201	
	D202	
	D203	
	D300 : D316	LABEL4
	D400	LABEL5
	D401	

■When array type label is specified

Example: Read data from the devices by specifying array type labels.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit (0..1)	M0
[1]	LABEL2	Word (0..1)	CN200
[2]	LABEL3	Double Word (0..1)	D0

·Number of read points: 8

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	M0	LABEL1[0]
	M1	LABEL1[1]
H of CN200	L of CN200	LABEL2[0]
H of CN201	L of CN201	LABEL2[1]
Not used (0 is stored.)	D100	LABEL3[0]
	D101	
	D102	LABEL3[1]
	D103	

■When long timer, long counter, or long retentive timer type is specified

Example: Read 3 points of data from LT0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL	Long timer	LT0
[1]	LABEL	Long timer	LT1
[2]	LABEL	Long timer	LT2

·Number of read points: 3

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
H of LT0	L of LT0	LABEL[1]
H of LT1	L of LT1	LABEL[2]
H of LT2	L of LT2	LABEL[3]

■When structure type labels are specified

Example: Read data from the devices by specifying structure type labels.

· Structure setting

Structure name	Label name	Data type
STRUCT	L1	Bit
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT	L1	D0.0
			L2	D0
[1]	LABEL2	STRUCT	L1	M10
			L2	CN200

·Number of read points: 6

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	D0.0	LABEL1.L1
	D0	LABEL1.L2
	D1	
	M0	LABEL2.L1
H of CN200	L of CN200	LABEL2.L2
H of CN201	L of CN201*1	

*1 Data of two devices are read when the device of CN200 and later is specified for the Double Word type label.

■When labels in combination with structure and array are specified

Example: Read data from the devices by specifying structure type array and structure array type label.

· Structure setting

Structure name	Label name	Data type
STRUCT1	L1	Bit
	L2	Word
STRUCT2	L1	Bit (0..2)
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT1(0..1)	L1	X0
			L2	D0
[1]	LABEL2	STRUCT2	L1	M0
			L2	D100

·Number of read points: 9

· Read device values

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	X0	LABEL1[0].L1
	D0	LABEL1[0].L2
	X1	LABEL1[1].L1
	D1	LABEL1[1].L2
	M0	LABEL2.L1[0]
	M1	LABEL2.L1[1]
	M2	LABEL2.L1[2]
	D100	LABEL2.L2
	D101	

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points is 0x7FFFFFFF.
- For the number of read points, specify the number of words which applies to the data type specified for the label name.
  For the read device values, reserve a memory area for the number of points specified for the number of read points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be read.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be read.
- Digit specified bit device and index setting cannot be used.
- When using system label Ver.2, the data type defined in the Label Utility of MX Component and the data type managed by MELSOFT Navigator is required to match.
  If the data type does not match, the read data length may wrong, or when multiple labels are specified, the correspondence of the array of the read device value and label name may not match.

WriteDeviceRandom (Writing devices randomly)

Applicable controls

Applicable to the DotUtlType control.

Feature

Write devices randomly.

Format

■Visual Basic .NET

Ret = object.WriteDeviceRandom(szLabel, iSize, iData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of write points	Input
Integer	iData(n)	Device value to be written	Input

Ret = object.WriteDeviceRandom(szLabelList, iSize, iData)

Integer	IRet	Returned value	Output
String	szLabelList(n)	Label list	Input
Integer	iSize	Number of write points	Input
Integer	iData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceRandom(szLabel, iSize, iData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of write points	Input
array<int>^	iData	Device value to be written	Input

iRet = object.WriteDeviceRandom(szLabelList, iSize, iData)

int	iRet	Returned value	Output
array<System::String ^>^	szLabelList	Label list	Input
int	iSize	Number of write points	Input
array<int>^	iData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceRandom(ref szLabel, iSize, ref iData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of write points	Input
int[n]	iData	Device value to be written	Input

iRet = object. WriteDeviceRandom (ref szLabelList, iSize, ref iData)

int	iRet	Returned value	Output
System.String[n]	szLabelList	Label list	Input
int	iSize	Number of write points	Input
int[n]	iData	Device value to be written	Input

Description

- Data of a device group for the size of iSize specified for the label name szLabel (szLabelList) are written.
- The device values to be written are stored in iData.
- For iData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String[*1], String (Unicode)[*1], Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name
Array		Label name
Array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements] Label name [n1] [n2] [n3]
Structure		Label name
Structure member	(The label data type can be specified in the same manner as the basic type.)	Label name.Member name
Structured array		Label name [number of elements]
Structured array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements].Member name Label name [n1] [n2] [n3].Element

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of write points

For the number of write points, specify the sum of the following values correspond to the elements according to the label data type.

Label data type	Number of applicable words	Number of write points to be specified
Bit, Word	1	Number of label elements
Double Word, Float (Single Precision)	2	Number of label elements multiplied by 2
Float (Double Precision)	4	Number of label elements multiplied by 4
String	17	Number of label elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label elements

How to specify devices

Set the device values to be written as follows.

■When bit device and word device are specified

Example: Write data to each 1 point of M0 and D0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit	M0
[1]	LABEL2	Word	D0

· Number of write points: 2

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used	M0	LABEL1
	D0	LABEL2

■When CN200 and later devices of FXCPU are specified

Example: Write 3 points of data to the devices including CN200.

For CN200 and later devices of FXCPU, 4 bytes are written as 1 read point.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	CN200
[2]	LABEL3	Word	D1

· Number of write points: 3

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used	D0	LABEL1
H of CN200	L of CN200	LABEL2
Not used	D1	LABEL3

■When FD device is specified (4-word device)

Example: Write 3 points of data to the devices including FD0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	FD0
[2]	LABEL3	Word	D1

· Number of write points: 3

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used	D0	LABEL1
	LL of FD0*1	LABEL2
	D1	LABEL3

*1 Only lower 2 bytes can be set.
"0" is written to the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Write data by specifying labels of Double Word, Float (Single Precision), Float (Double Precision), String[*1], and Time types.

[*1]The number of points of characters to be written is 17 (32 characters + NULL).

The characters need to be converted in a user program because the characters of String type are not converted.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Double Word	D0
[1]	LABEL2	Float (Single Precision)	D100
[2]	LABEL3	Float (Double Precision)	D200
[3]	LABEL4	String	D300
[4]	LABEL5	Time	D400

· Number of write points: 27

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used	D0	LABEL1
	D1	
	D100	LABEL2
	D101	
	D200	LABEL3
	D201	
	D202	
	D203	
	D300 : D316	LABEL4
	D400	LABEL5
	D401	

■Writing data to the devices by specifying array type labels

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit (0..1)	M0
[1]	LABEL2	Word (0..1)	CN200
[2]	LABEL3	Double Word (0..1)	D0

· Number of write points: 8

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used (0 is stored.)	M0	LABEL1[0]
	M1	LABEL1[1]
H of CN200	L of CN200	LABEL2[0]
H of CN201	L of CN201	LABEL2[1]
Not used	D100	LABEL3[0]
	D101	
	D102	LABEL3[1]
	D103	

■When long timer, long counter, or long retentive timer type is specified

Example: Write 3 points of data from LT0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL	Long timer	LT0
[1]	LABEL	Long timer	LT1
[2]	LABEL	Long timer	LT2

· Number of write points: 3

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
H of LT0	L of LT0	LABEL[1]
H of LT1	L of LT1	LABEL[2]
H of LT2	L of LT2	LABEL[3]

■When structure type labels are specified

Example: Write data to the devices by specifying structure type labels.

· Structure setting

Structure name	Label name	Data type
STRUCT	L1	Bit
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT	L1	D0.0
			L2	D0
[1]	LABEL2	STRUCT	L1	M10
			L2	CN200

· Number of write points: 5

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used	D0.0	LABEL1.L1
	D0	LABEL1.L2
	D1	
	M0	LABEL2.L1
H of CN200	L of CN200	LABEL2.L2

■When labels in combination with structure and array are specified

Example: Write data to the devices by specifying structure type array and structure array type label.

· Structure setting

Structure name	Label name	Data type
STRUCT1	L1	Bit
	L2	Word
STRUCT2	L1	Bit (0..2)
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT1(0..1)	L1	X0
			L2	D0
[1]	LABEL2	STRUCT2	L1	M0
			L2	D100

· Number of write points: 9

·Device values to be written

Upper 2 bytes	Lower 2 bytes	Applicable label
Not used	X0	LABEL1[0].L1
	D0	LABEL1[0].L2
	X1	LABEL1[1].L1
	D1	LABEL1[1].L2
	M0	LABEL2.L1[0]
	M1	LABEL2.L1[1]
	M2	LABEL2.L1[2]
	D100	LABEL2.L2
	D101	

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points is 0x7FFFFFFF.
- For the number of write points, specify the number of words which applies to the data type specified for the label name.
  For the device values to be written, reserve a memory area for the number of points specified for the number of write points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be written.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be written.
- Digit specified bit device and index setting cannot be used.
- If a Q motion CPU is accessed, an error is returned.
- When using system label Ver.2, the data type defined in the Label Utility of MX Component and the data type managed by MELSOFT Navigator is required to match.
  If the data type does not match, the read data length may wrong, or when multiple labels are specified, the correspondence of the array of the read device value and label name may not match.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

SetDevice (Set device data)

Applicable controls

Applicable to the DotUtlType control.

Feature

Set one point of device.

Format

■Visual Basic .NET

IRet = object.SetDevice(szLabel, iData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iData	Device value to be written	Input

■Visual C++ .NET

iRet = object.SetDevice(szLabel, iData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iData	Device value to be written	Input

■Visual C# .NET

iRet = object.SetDevice(ref szLabel, iData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iData	Device value to be written	Input

Description

- The values of iData (device values to be written) are written to 1 point of device specified for szLabel (label name).
- When specifying bit devices, the least significant bit of the iData (device values to be written) is valid.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word*1, Float (Single Precision)*1, Float (Double Precision)*1, String*1, String (Unicode), Time*1, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name

*1 Only lower 2 bytes of start device can be written.
When writing 2 words or more of devices, use the WriteDeviceBlock function.
Note that when any of the following devices is specified, the upper 2 bytes are also written in Double Word type.
· CN200 and later devices of FXCPU

How to specify devices

Set the device values to be written as follows.

■When bit device is specified

Example: Write data to M0.

· Label setting

Data type	Device
Bit	M0

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	M0

■When word device is specified

Example: Write data to D0.

· Label setting

Data type	Device
Word	D0

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	D0

■When CN200 or later device of FXCPU is specified

Example: Write data to CN200.

For CN200 and later devices of FXCPU, 4 bytes are written.

· Label setting

Data type	Device
Double Word	CN200

·Device values to be written

Upper 2 bytes	Lower 2 bytes
H of CN200	L of CN200

■When FD device is specified (4-word device)

Example: Write data by specifying FD0.

· Label setting

Data type	Device
Word	FD0

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	LL of FD0*1

*1 Only lower 2 bytes can be set.
"0" is written to the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Write data by specifying String type label.

· Label setting

Data type	Device
String	D0

·Device values to be written

Upper 2 bytes	Lower 2 bytes
Not used	D0*1

*1 Only lower 2 bytes are written to the start device.

■When long timer, long counter, or long retentive timer type is specified

Example: Write data to LT0.

· Label setting

Data type	Device
Long timer	LT0

·Device values to be written

Upper 2 bytes	Lower 2 bytes
H of LT0	L of LT0

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When a device which corresponds to the label name does not exist, an error occurs and data cannot be written.
- When a Double Word device is specified at the time other than the digit specification for bit device and specification of CN200 and later devices of FXCPU, this function writes data of lower 1 word (2 bytes), and "0" is written to data of upper 1 word (2 bytes).
  When writing Double Word devices, use the WriteDeviceRandom or the WriteDeviceBlock2 function.
- Digit specified bit device and index setting cannot be used.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

GetDevice (Acquiring device data)

Applicable controls

Applicable to the DotUtlType control.

Feature

Acquire one point of device.

Format

■Visual Basic .NET

IRet = object.GetDevice(szLabel, lData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iData	Read device value	Output

■Visual C++ .NET

iRet = object.GetDevice(szLabel, iData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iData	Read device value	Output

■Visual C# .NET

iRet = object.GetDevice(ref szLabel, ref iData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iData	Read device value	Output

Description

- One point of device data specified for szLabel (label name)is stored in iData (read device values).

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word*1, Float (Single Precision)*1, Float (Double Precision)*1, String*1, String (Unicode), Time*1, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name

*1 Only lower 2 bytes of start device can be read.
When reading 2 words or more of devices, use the ReadDeviceBlock function.
Note that when any of the following devices is specified, the upper 2 bytes are also read in Double Word type.
·CN200 or later device of FXCPU

How to specify devices

The read device values are stored as follows.

■When bit device is specified

Example: Read data from M0.

· Label setting

Data type	Device
Bit	M0

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	M0*1

*1 The target device from which data is read is only one point of "M0", and "0" or "1" is stored as the device value.

■When word device is specified

Example: Read data from D0.

· Label setting

Data type	Device
Word	D0

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0

■When CN200 or later device of FXCPU is specified

Example: Read data from CN200.

· Label setting

Data type	Device
Double Word	CN200

· Read device values

Upper 2 bytes	Lower 2 bytes
H of CN200	L of CN200*1

*1 For CN200 and later devices of FXCPU, 4 bytes are read.

■When FD device is specified (4-word device)

Example: Read data by specifying FD0.

· Label setting

Data type	Device
Word	FD0

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	LL of FD0*1

*1 Only lower 2 bytes are read. Data are not read from the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Read data by specifying String type label.

· Label setting

Data type	Device
String	D0

· Read device values

Upper 2 bytes	Lower 2 bytes
Not used (0 is stored.)	D0*1

*1 Only lower 2 bytes are read to the start device.

■When long timer, long counter, or long retentive timer type is specified

Example: Read data to LT0.

· Label setting

Data type	Device
Long timer	LT0

· Read device values

Upper 2 bytes	Lower 2 bytes
H of LT0	L of LT0

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When a device which corresponds to the label name does not exist, an error occurs and data cannot be read.
- For the read device values, reserve 4 bytes of memory area. If the memory area is not reserved, a critical error (an application error or the like) may occur.
- Digit specified bit device and index setting cannot be used.

ReadBuffer (Reading data from buffer memory)

Applicable controls

Applicable to the DotUtlType control.

Feature

Read data from the buffer memory of special function module.

Format

■Visual Basic .NET

IRet = object.ReadBuffer(iStartIO, iAddress, iReadSize, sData)

Integer	IRet	Returned value	Output
Integer	iStartIO	Start I/O number of module from which values are read	Input
Integer	iAddress	Buffer memory address	Input
Integer	iReadSize	Read size	Input
Short	sData(n)	Values read from buffer memory	Output

■Visual C++ .NET

iRet = object.ReadBuffer(iStartIO, iAddress, iReadSize, sData)

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module from which values are read	Input
int	iAddress	Buffer memory address	Input
int	iReadSize	Read size	Input
array<short>^	sData	Values read from buffer memory	Output

■Visual C# .NET

iRet = object.ReadBuffer(iStartIO, iAddress, iReadSize, sData)

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module from which values are read	Input
int	iAddress	Buffer memory address	Input
int	iReadSize	Read size	Input
short[n]	sData	Values read from buffer memory	Output

Description

- For the start I/O number of the module specified for iStartIO, specify the value of the actual start I/O number divided by 16.
- Buffer values of buffer memory address specified for iAddress of the special function module of the start I/O number specified for iStartIO are read for the size of iReadSize.
- When performing CPU COM communication with FXCPU as a connected station or GX Simulator communication, specify the block number (0 to 7) of the special expansion equipment for the module's start I/O number and any value between 0 and 32767 for the buffer memory address.
- For sData, reserve arrays for more than the amount specified for iReadSize.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for reading/writing data from/to buffer memory in multiple CPU system configuration

Any of the following errors occurs when the function is executed under the situation where the configured multiple CPU system differs from the I/O assignment set in GX Developer.

Execute the function after checking the I/O assignment set in GX Developer and checking the I/O numbers of the module from/to which values are read/written.

- An error occurs even when the function is executed after the correct I/O numbers are specified.
- When the specific I/O numbers (I/O numbers whose I/O assignment is actually wrong) are specified, data can be read from buffer memory normally, but an error (error code: 0x010A4030, 0x010A4042, etc.) occurs when data are written to the buffer memory.
- Though a programmable controller CPU error (parameter error, SP. UNIT LAY ERR, etc.) does not occur in the multiple CPU system, an error occurs in the user application when the function is executed.

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- For sData, reserve a memory area for the number of points specified for iReadSize.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When reading data from buffer memory (ReadBuffer) on QCPU (Q mode), the read operation can only be performed on the Q series-dedicated modules.
  Furthermore, data cannot be read from the shared memory of QCPU (Q mode).
- For the availability of communication paths, refer to the table in ☞ Page 384 ReadBuffer (Reading data from buffer memory).

WriteBuffer (Write data to buffer memory.)

Applicable controls

Applicable to the DotUtlType control.

Feature

Write data to the buffer memory of special function module.

Format

■Visual Basic .NET

IRet = object.WriteBuffer(iStartIO, iAddress, iWriteSize, sData)

Integer	IRet	Returned value	Output
Integer	iStartIO	Start I/O number of module to where values will be written	Input
Integer	iAddress	Buffer memory address	Input
Integer	iWriteSize	Write size	Input
Short	sData(n)	Values written from buffer memory	Input

■Visual C++ .NET

iRet = object.WriteBuffer(iStartIO, iAddress, iWriteSize, sData)

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module to where values will be written	Input
int	iAddress	Buffer memory address	Input
int	iWriteSize	Write size	Input
array<short>^	sData	Values written from buffer memory	Input

■Visual C# .NET

iRet = object. WriteBuffer (iStartIO, iAddress, iWriteSize, sData)

int	iRet	Returned value	Output
int	iStartIO	Start I/O number of module to where values will be written	Input
int	iAddress	Buffer memory address	Input
int	iWriteSize	Write size	Input
short[n]	sData	Values written from buffer memory	Input

Description

- For the start I/O number of the module specified for iStartIO, specify the value of the actual start I/O number divided by 16.
- Buffer values of buffer memory address specified for iAddress of the special function module of the start I/O number specified for iStartIO are written for the size of iWriteSize.
- When performing CPU COM communication with FXCPU as a connected station or GX Simulator communication, specify the block number (0 to 7) of the special expansion equipment for the module's start I/O number and any value between 0 and 32767 for the buffer memory address.
- For sData, reserve arrays for more than the amount specified for iWriteSize.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for reading/writing data from/to buffer memory in multiple CPU system configuration

Any of the following errors occurs when the function is executed under the situation where the configured multiple CPU system differs from the I/O assignment set in GX Developer.

Execute the function after checking the I/O assignment set in GX Developer and checking the I/O numbers of the module from/to which the values are read/written.

- An error occurs even when the function is executed after the correct I/O numbers are specified.
- When the specific I/O numbers (I/O numbers whose I/O assignment is actually wrong) are specified, data can be read from buffer memory normally, but an error (error code: 0x010A4030, 0x010A4042, etc.) occurs when data are written to the buffer memory.
- Though a programmable controller CPU error (parameter error, SP. UNIT LAY ERR, etc.) does not occur in the multiple CPU system, an error occurs in the user application when the function is executed.

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- For sData, reserve a memory area for the number of points specified for iWriteSize.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When buffer memory write (WriteBuffer) is performed for QCPU (Q mode), write operation may be performed for only the Q series-dedicated module.
  Furthermore, data cannot be written to the shared memory of QCPU (Q mode).
- For the availability of communication paths, refer to the table in ☞ Page 389 WriteBuffer (Writing data to buffer memory).

GetClockData (Reading clock data)

Applicable controls

Applicable to the DotUtlType control.

Feature

Read clock data from a programmable controller CPU.

Format

■Visual Basic .NET

IRet = object.GetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

Integer	IRet	Returned value	Output
Short	sYear	Read year value	Output
Short	sMonth	Read month value	Output
Short	sDay	Read day value	Output
Short	sDayOfWeek	Read day-of-week value	Output
Short	sHour	Read hour value	Output
Short	sMinute	Read minute value	Output
Short	sSecond	Read second value	Output

■Visual C++ .NET

iRet = object.GetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

int	iRet	Returned value	Output
short	sYear	Read year value	Output
short	sMonth	Read month value	Output
short	sDay	Read day value	Output
short	sDayOfWeek	Read day-of-week value	Output
short	sHour	Read hour value	Output
short	sMinute	Read minute value	Output
short	sSecond	Read second value	Output

■Visual C# .NET

hResult = object.GetClockData

(ref sYear, ref sMonth, ref sDay, ref sDayOfWeek,ref sHour, ref sMinute, ref sSecond)

int	iRet	Returned value	Output
short	sYear	Read year value	Output
short	sMonth	Read month value	Output
short	sDay	Read day value	Output
short	sDayOfWeek	Read day-of-week value	Output
short	sHour	Read hour value	Output
short	sMinute	Read minute value	Output
short	sSecond	Read second value	Output

Description

- An error is returned when the correct clock data is not set to the programmable controller CPU.
- The values stored in sYear are: four digits of the year for RCPU and QCPU (Q mode) and last two digits of the year for any other CPUs.
  Note that the applicable years for RCPU and QCPU (Q mode) are from 1980 to 2079.
- The values stored in sDayOfWeek are as follows.

Value	Day of Week
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

Returned value

Normal termination: 0 is returned.
Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- The clock data can be read from FXCPUs with the built-in clock or FXU/FX2C/FX2NC with the RTC cassette.
  An error is returned when the clock data is read from an FXCPU other than the ones described above.
- Note that an error of transfer time may occur in clock setting.
- For the availability of communication paths, refer to the table in ☞ Page 393 GetClockData (Reading clock data).

SetClockData (Writing clock data)

Applicable controls

Applicable to the DotUtlType control.

Feature

Write clock data to a programmable controller CPU.

Format

■Visual Basic .NET

IRet = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

Integer	IRet	Returned value	Output
Short	sYear	Year value to be written	Input
Short	sMonth	Month value to be written	Input
Short	sDay	Day value to be written	Input
Short	sDayOfWeek	Day-of-week value to be written	Input
Short	sHour	Hour value to be written	Input
Short	sMinute	Minute value to be written	Input
Short	sSecond	Second value to be written	Input

■Visual C++ .NET

iRet = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

int	iRet	Returned value	Output
short	sYear	Year value to be written	Input
short	sMonth	Month value to be written	Input
short	sDay	Day value to be written	Input
short	sDayOfWeek	Day-of-week value to be written	Input
short	sHour	Hour value to be written	Input
short	sMinute	Minute value to be written	Input
short	sSecond	Second value to be written	Input

■Visual C# .NET

IRet = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

int	iRet	Returned value	Output
short	sYear	Year value to be written	Input
short	sMonth	Month value to be written	Input
short	sDay	Day value to be written	Input
short	sDayOfWeek	Day-of-week value to be written	Input
short	sHour	Hour value to be written	Input
short	sMinute	Minute value to be written	Input
short	sSecond	Second value to be written	Input

Description

- An error is returned when the clock data to be set are not correct values.
- The applicable values to be specified for sYear are: four digits of the year for RCPU and QCPU (Q mode) and last two digits of the year for any other CPUs.
  Note that the applicable years for RCPU and QCPU (Q mode) are from 1980 to 2079.
  An error occurs when four digits are set to a CPU other than RCPU and QCPU (Q mode).
- The values to be specified for sDayOfWeek are as follows.

Value	Day of Week
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

Returned value

Normal termination: 0 is returned.
Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- If an R motion CPU, or Q motion CPU is accessed, an error will be returned.
- The clock data can be read from FXCPUs with the built-in clock or FXU/FX2C/FX2NC with the RTC cassette.
  An error is returned when the clock data is read from an FXCPU other than the ones described above.
- Note that an error of transfer time may occur in clock setting.
- For the availability of communication paths, refer to the table in ☞ Page 397 SetClockData (Writing clock data).
- An error is returned when the own board is accessed.

GetCpuType (Reading programmable controller CPU model)

Applicable controls

Applicable to the DotUtlType control.

Feature

Read the model character string and the model code of programmable controller CPU, network board, and GOT.

Format

■Visual Basic .NET

IRet = object.GetCpuType(szCpuName, lCpuType)

Integer	IRet	Returned value	Output
String	szCpuName	Programmable controller CPU model character string	Output
Integer	lCpuType	Programmable controller CPU model code	Output

■Visual C++ .NET

iRet = object.GetCpuType (szCpuName, iCpuType)

int	iRet	Returned value	Output
String^	szCpuName	Programmable controller CPU model character string	Output
int	iCpuType	Programmable controller CPU model code	Output

■Visual C# .NET

iRet = object.GetCpuType (ref szCpuName, ref iCpuType)

int	iRet	Returned value	Output
String	szCpuName	Programmable controller CPU model character string	Output
int	iCpuType	Programmable controller CPU model code	Output

Description

- The model and the model code of the communication target programmable controller CPU are stored in szCpuName and iCpuType respectively.
- The model character string of the programmable controller CPU is returned in UNICODE.

Model character string and model code of CPU

For details, refer to the table in ☞ Page 401 GetCpuType (Reading programmable controller CPU model).

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

SetCpuStatus (Remote control)

Applicable controls

Applicable to the DotUtlType control.

Feature

Perform a remote operation of programmable controller CPU.

Format

■Visual Basic .NET

IRet = object.SetCpuStatus(IOperation)

Integer	IRet	Returned value	Output
Integer	IOperation	Remote RUN/STOP/PAUSE	Input

■Visual C++ .NET

iRet = object.SetCpuStatus (iOperation)

int	iRet	Returned value	Output
int	iOperation	Remote RUN/STOP/PAUSE	Input

■Visual C# .NET

iRet = object.SetCpuStatus (iOperation)

int	iRet	Returned value	Output
int	iOperation	Remote RUN/STOP/PAUSE	Input

Description

The operation specified for iOperation is performed.

An error occurs when a value other than the following values is specified.

Value	Operation
0	Remote RUN
1	Remote STOP
2	Remote PAUSE

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- Since FXCPU or FX5CPU does not have the PAUSE switch as a programmable controller CPU, an error is returned if a remote pause operation is specified using the SetCpuStatus function.
- If a Q motion CPU is accessed and PAUSE is specified, an error is returned.
- For the availability of communication paths, refer to the table in ☞ Page 405 SetCpuStatus (Remote control).
- If an R motion CPU is accessed, an error is returned.

EntryDeviceStatus (Registering devices for status monitoring)

Applicable controls

Applicable to the DotUtlType control.

Feature

Register devices whose status to be monitored.

Format

■Visual Basic .NET

IRet = object.EntryDeviceStatus(szLabelList, iSize, iMonitorCycle, iData)

Integer	IRet	Returned value	Output
String	szLabelList(n)	Registered label name list	Input
Integer	iSize	Number of registered device points	Input
Integer	iMonitorCycle	Status monitoring time interval	Input
Integer	iData(n)	Registered device value list	Input

■Visual C++ .NET

iRet = object.EntryDeviceStatus(szLabelList, iSize, iMonitorCycle, iData)

int	iRet	Returned value	Output
array<System::String ^>^	szLabelList	Registered label name list	Input
int	iSize	Number of registered device points	Input
int	iMonitorCycle	Status monitoring time interval	Input
array<int>^	iData	Registered device value list	Input

■Visual C# .NET

iRet = object. EntryDeviceStatus(szLabelList, iSize, iMonitorCycle, iData)

int	iRet	Returned value	Output
System.String[n]	szLabelList	Registered label name list	Input
int	iSize	Number of registered device points	Input
int	iMonitorCycle	Status monitoring time interval	Input
int[n]	iData	Registered device value list	Input

Description

- A device group for the size of iSize specified for szLabelList is checked whether it is in the status specified for iData.
  Specify the check time for iMonitorCycle.
  When the status is established, the OnDeviceStatus function of the user application is executed.
- maximum number of device points that can be specified for iSize is 20 points.
- Specify a value within the range from 1 second to 1 hour (set between 1 and 3600 in seconds) for iMonitorCycle.
  An error occurs when any other value outside the above range is specified.
- The registered device value list is stored in iData.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word	Label name

How to specify devices

Set the device values to be registered as follows.

■When bit device and word device are specified

Example: Register 1 point of M0 and D0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit	M0
[1]	LABEL2	Word	D0

·Number of registered device points: 2

·Registered device values

Upper 2 bytes	Lower 2 bytes
Not used	M0
	D0

■When CN200 and later devices of FXCPU are specified

Example: Register 3 points of devices including CN200.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	CN200
[2]	LABEL3	Word	D1

·Number of registered device points: 3

·Registered device values

Upper 2 bytes	Lower 2 bytes
Not used	D0
H of CN200	L of CN200*1
Not used	D1

*1 For CN200 and later devices of FXCPU, 4 bytes can be registered.

■When FD device is specified (4-word device)

Example: Register 3 points of data from FD0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	FD0
[2]	LABEL3	Word	D1

·Number of registered device points: 3

·Registered device values

Upper 2 bytes	Lower 2 bytes
Not used	D0
	LL of FD0*1
	D1

*1 Only lower 2 bytes can be registered. The specified devices HH, HL, and LH (upper 6 bytes) cannot be registered.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for checking the word device status

When checking the word device status for negative values of -1 to -32768 (FFFFH to 8000H), set the monitor device value of the EntryDeviceStatus function to any of 65535 to 32768 (0000FFFFH to 00008000H) where "0" is stored in the upper 2 bytes.

(Example) When checking the D0 status for "-10"

Set the value "65526 (0000FFF6H)" where "0" is stored in the upper 2 bytes of "-10 (FFFFFFF6H)" for the monitor device value.

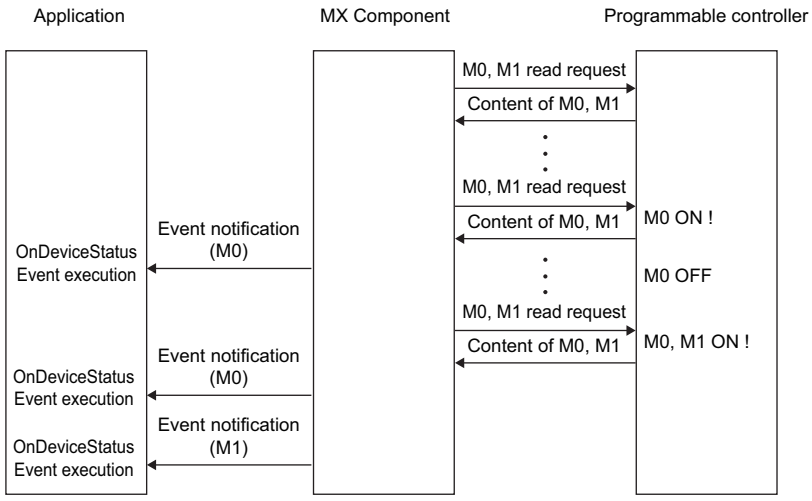
While the type of word devices of the programmable controller CPU is WORD type, the type of monitor device value of the EntryDeviceStatus function is LONG type. Therefore, when current values of programmable controller CPU are compared with monitor device values of the EntryDeviceStatus function, the values do not match and the above setting is required. (When bit devices or Double Word devices are used, this consideration does not apply.)

For the programming examples regarding this consideration, refer to the following section.

☞ Page 583 Programming Examples for Monitoring Word Device Status

Point

- Device status monitoring may not be performed at the specified status monitoring time intervals depending on the conditions: personal computer performance, currently executed application load, time required for communication with the programmable controller, or the like.
  Simultaneous use of any other control functions would also be the cause of disabling device status monitoring at the specified status monitoring time intervals.
- For iData, reserve a memory area for the number of points specified for iSize. If the memory area is not reserved, a critical error (an application error or the like) may occur.
- An error occurs when the EntryDeviceStatus function is executed during a status monitoring.
  When changing any status monitor condition, execute the FreeDeviceStatus function and then execute the EntryDeviceStatus function.
- When the status of multiple devices changes at the same time, the OnDeviceStatus event is executed every time the status changes.
  (Example: When M0 is monitored)



- This function is a function to check the status establishment under the constant execution of random device read by the control.
  This function is not a function for a programmable controller CPU to notify the device status establishment to MX Component.
  Therefore, the control may not be able to check the device status establishment of programmable controller CPU depending on the specified status monitoring time interval.
- Digit specified bit device and index setting cannot be used.

FreeDeviceStatus (Deregistering devices for status monitoring)

Applicable controls

Applicable to the DotUtlType control.

Feature

Deregister devices that are registered using the EntryDeviceStatus function to monitor their status.

Format

■Visual Basic .NET

IRet = object.FreeDeviceStatus()

Integer	IRet	Returned value	Output

■Visual C++ .NET

iRet = object. FreeDeviceStatus()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object. FreeDeviceStatus()

int	iRet	Returned value	Output

Description

The devices that are set using the EntryDeviceStatus function to monitor their status are deregistered.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

OnDeviceStatus (Event notification)

Applicable controls

Applicable to the DotUtlType control.

Feature

Execute the event notification when the device condition registered using the EntryDeviceStatus function is satisfied.

Format

■Visual Basic .NET

Private Sub object_OnDeviceStatus(sender, e)

ByVal	sender As System.Object	Event occurrence source	Input
ByVal e As objectLib_IobjectIFEvents_OnDeviceStatusEvent		Event data	Input
The following are the members of e.			
e.szLabel	Name of label whose condition is satisfied		
e.lData	Value of device whose condition is satisfied		
e.lReturnCode	Returned value of condition check processing		

■Visual C++ .NET

private: System::Void objectIF_OnDeviceStatus (*sender, e)

System::Object *sender		Event occurrence source	Input
objectLib::objectIF_OnDeviceStatusEvent* e		Event data	Input
The following are the members of e.			
e->szLabel	Name of label whose condition is satisfied		
e->lData	Value of device whose condition is satisfied		
e->lReturnCode	Returned value of condition check processing		

■Visual C# .NET

private void object_OnDeviceStatus(object sender, object.DeviceStatusEventArgs e)

sender		Event occurrence source	output
e		Event data	output
The following are the members of e.			
e->szLabel	Name of label whose condition is satisfied		
e->lData	Value of device whose condition is satisfied		
e->lReturnCode	Returned value of condition check processing		

Description

- The event is notified to the application when the device condition registered using the EntryDeviceStatus function is satisfied.
  Programming this function in the user application allows the application to receive the event when the registered device condition is satisfied.
- Device values registered using the EntryDeviceStatus function are input to lData.
  Example: When the word device is monitored for the value of "-1"
  Set 65535 (0000FFFFH) as a registered device value using the EntryDeviceStatus function.
  When the value of the target word device of the programmable controller CPU becomes "-1" (FFFFH), the OnDeviceStatus function is executed and (0000FFFFH) is input to lData.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

When any of the following settings is set in the user application, the event of the OnDeviceStatus function does not occur even if the condition of the device registered to the EntryDeviceStatus function is satisfied. Note that when the event occurrence becomes in wait status, the control function is not returned to the control and device management processing stops until the following setting is terminated.

- User applications created using Visual Basic .NET
  The message box is displayed in the user application.
  The InputBox/OutputBox is displayed in the user application.
- User applications created using Visual Basic .NET, Visual C++ .NET and Visual C# .NET
  The Sleep processing, WaitForSingleObject function, or similar standby function is used in the user application.

ReadDeviceBlock2 (Reading devices in bulk)

Applicable controls

Applicable to the DotUtlType control.

Feature

Read devices in 2-byte data unit in bulk.

Format

■Visual Basic .NET

IRet = object.ReadDeviceBlock2(szLabel, iSize, sData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of read points	Input
Short	sData(n)	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceBlock2(szLabel, iSize, sData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of read points	Input
array<short>^	sData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceBlock2(ref szLabel, iSize, ref sData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of read points	Input
short[n]	sData	Read device value	Output

Description

- The devices for the amount specified for iSize (number of read points) are read in bulk starting from the device specified for szLabel (label name).
- The read device values are stored in sData.
- For sData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Array		Label name
Array member	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String[*1], String (Unicode)[*1], Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name [number of elements] Label name [n1] [n2] [n3]

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of read points

Set the following values for the number of read points according to the label data type.

Label (array) data type	Number of applicable words	Number of read points to be specified
Bit	1	Number of label array elements divided by 16 (rounded up)
Word	1	Number of label array elements
Double Word, Float (Single Precision)	2	Number of label array elements multiplied by 2
Float (Double Precision)	4	Number of label array elements multiplied by 4
String	17	Number of label array elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label array elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label array elements

How to specify devices

The read device values are stored as follows.

■When bit device is specified

Example: Read 3 points of data (3 words = 48 bits) from the devices starting from M0.

· Label setting (Data type: Bit, Number of array elements: 48)

Data type	Device
Bit (0..47)	M0

·Number of read points: 3

· Read device values

2 Bytes
M0 to M15[*1]
M16 to M31[*1]
M32 to M47[*1]

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Read 3 points of data from the devices starting from D0.

·Label setting (Data type: Word, Number of array elements: 3)

Data type	Device
Word (0..2)	D0

·Number of read points: 3

· Read device values

2 Bytes
D0
D1
D2

■When CN200 and later devices of FXCPU are specified

Example: Read 6 points of data from the devices starting from CN200.

For CN200 and later devices of FXCPU, 2 points of data are read from each 1 point of device (upper (H) and lower (L) data). Reading only 1 point of data will result in an error.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	CN200

·Number of read points: 6

· Read device values

2 Bytes
L of CN200
H of CN200
L of CN201
H of CN201
L of CN202
H of CN202

■When FD device is specified (4-word device)

Example: Read 8 points of data from the devices starting from FD0.

·Label setting (Data type: Double Word, Number of array elements: 2)

Data type	Device
Double Word (0..1)	FD0

·Number of read points: 8

· Read device values

2 Bytes
LL of FD0
LH of FD0
HL of FD0
HH of FD0
LL of FD1
LH of FD1
HL of FD1
HH of FD1

■When label is Double Word array and word device is specified

Example: Read 6 points of data from the devices starting from D100.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	D100

·Number of read points: 6

· Read device values

2 Bytes
D100
D101
D102
D103
D104
D105

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points should be the value which satisfies the following condition.
  Read start device number + Number of read points ≤ Last device number
- When specifying bit type array labels, 0 or a multiple of 16 can be specified as a device number.
- For the number of read points, specify the number of words which applies to the data type specified for the label name.
  For the read device values, reserve a memory area for the number of points specified for the number of read points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be read.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be read.
- Digit specified bit device and index setting cannot be used.

WriteDeviceBlock2 (Writing devices in bulk)

Applicable controls

Applicable to the DotUtlType control.

Feature

Write devices in 2-byte data unit in bulk.

Format

■Visual Basic .NET

IRet = object.WriteDeviceBlock2(szLabel, iSize, sData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of write points	Input
Short	sData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceBlock2(szLabel, iSize, sData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of write points	Input
array<short>^	sData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceBlock2(ref szLabel, iSize, sData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of write points	Input
short[n]	sData	Device value to be written	Input

Description

- The devices for the amount specified for iSize (number of write points) are written in bulk starting from the device specified for szLabel (label name).
- Store the device values to be written in sData.
- For sData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Array		Label name
Array member	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String*1, String (Unicode)*1, Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name [number of elements] Label name [n1] [n2] [n3]

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of write points

Set the following values for the number of write points according to the label data type.

Label (array) data type	Number of applicable words	Number of write points to be specified
Bit	1	Number of label array elements divided by 16 (rounded up)
Word	1	Number of label array elements
Double Word, Float (Single Precision)	2	Number of label array elements multiplied by 2
Float (Double Precision)	4	Number of label array elements multiplied by 4
String	17	Number of label array elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label array elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label array elements

How to specify devices

Set the device values to be written as follows.

■When bit device is specified

Example: Write 3 points of data (3 words = 48 bits) to the devices starting from M0.

· Label setting (Data type: Bit, Number of array elements: 48)

Data type	Device
Bit (0..47)	M0

· Number of write points: 3

·Device values to be written

2 Bytes
M0 to M15*1
M16 to M31*1
M32 to M47*1

*1 Devices are stored from the lower bit in the order of device number.

■When word device is specified

Example: Write 3 points of data to the devices starting from D0.

·Label setting (Data type: Word, Number of array elements: 3)

Data type	Device
Word (0..2)	D0

· Number of write points: 3

·Device values to be written

2 Bytes
D0
D1
D2

■When CN200 and later devices of FXCPU are specified

Example: Write 6 points of data to the devices starting from CN200.

For CN200 and later devices of FXCPU, 2 points of data are written to each 1 point of device (upper (H) and lower (L) data).

Writing only 1 point of data will result in an error.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	CN200

· Number of write points: 6

·Device values to be written

2 Bytes
L of CN200
H of CN200
L of CN201
H of CN201
L of CN202
H of CN202

■When FD device is specified (4-word device)

·Label setting (Data type: Double Word, Number of array elements: 2)

Data type	Device
Double Word (0..1)	FD0

· Number of write points: 8

·Device values to be written

2 Bytes
LL of FD0
LH of FD0
HL of FD0
HH of FD0
LL of FD1
LH of FD1
HL of FD1
HH of FD1

■When label is Double Word array and word device is specified

Example: Write 6 points of data to the devices starting from D100.

·Label setting (Data type: Double Word, Number of array elements: 3)

Data type	Device
Double Word (0..2)	D100

· Number of write points: 6

·Device values to be written

2 Bytes
D100
D101
D102
D103
D104
D105

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points should be the value which satisfies the following condition.
  Write starting device number + Number of write points ≤ Last device number
- When specifying bit type array labels, 0 or a multiple of 16 can be specified as a device number.
- For the number of write points, specify the number of words which applies to the data type specified for the label name.
  For the device values to be written, reserve a memory area for the number of points specified for the number of write points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be written.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be written.
- Digit specified bit device and index setting cannot be used.
- WriteDeviceBlock or WriteDeviceBlock2 cannot be used for writing long timer device (LT) and retentive long timer device (LST).
  Use WriteDeviceRandom, WriteDeviceRandom2, SetDevice or SetDevice2.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

ReadDeviceRandom2 (Reading devices randomly)

Applicable controls

Applicable to the DotUtlType control.

Feature

Read devices in 2-byte data unit randomly.

Format

■Visual Basic .NET

IRet = object.ReadDeviceRandom2(szLabel, iSize, sData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of read points	Input
Short	sData(n)	Read device value	Output

IRet = object.ReadDeviceRandom2(szLabelList, iSize, sData)

Integer	IRet	Returned value	Output
String	szLabelList(n)	Label list	Input
Integer	iSize	Number of read points	Input
Short	sData(n)	Read device value	Output

■Visual C++ .NET

iRet = object.ReadDeviceRandom2(szLabel, iSize, sData)

Int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of read points	Input
array<short>^	sData	Read device value	Output

iRet = object.ReadDeviceRandom2(szLabelList, iSize, sData)

Int	iRet	Returned value	Output
array<System::String^>^	szLabelList	Label list	Input
int	iSize	Number of read points	Input
array<short>^	sData	Read device value	Output

■Visual C# .NET

iRet = object.ReadDeviceRandom2(ref szLabel, iSize, ref sData)

Int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of read points	Input
short[n]	sData	Read device value	Output

iRet = object.ReadDeviceRandom2(ref szLabelList, iSize, ref sData)

Int	iRet	Returned value	Output
System.String[n]	szLabelList	Label list	Input
int	iSize	Number of read points	Input
short[n]	sData	Read device value	Output

Description

- Data of a device group for the size of iSize specified for the label name szLabel (szLabelList) are read.
- The read device values are stored in sData.
- For sData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String[*1], String (Unicode)[*1], Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name
Array		Label name
Array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements] Label name [n1] [n2] [n3]
Structure		Label name
Structure member	(The label data type can be specified in the same manner as the basic type.)	Label name.Member name
Structured array		Label name [number of elements]
Structured array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements].Member Label name [n1] [n2] [n3].Element

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of read points

For the number of read points, specify the sum of the following values correspond to the elements according to the label data type.

Label data type	Number of applicable words	Number of read points to be specified
Bit, Word	1	Number of label elements
Double Word, Float (Single Precision)	2	Number of label elements multiplied by 2
Float (Double Precision)	4	Number of label elements multiplied by 4
String	17	Number of label elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label elements

How to specify devices

The read device values are stored as follows.

■When bit device and word device are specified

Example: Read data from each 1 point of M0 and D0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit	M0
[1]	LABEL2	Word	D0

·Number of read points: 2

· Read device values

2 Bytes	Applicable label
M0*1	LABEL1
D0	LABEL2

*1 The target device from which data is read is only one point of "M0", and "0" or "1" is stored as the device value.

■When CN200 and later devices of FXCPU are specified

Example: Read 3 points of data from the devices including CN200.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	CN200
[2]	LABEL3	Word	D1

·Number of read points: 3

· Read device values

2 Bytes	Applicable label
D0	LABEL1
L of CN200*1	LABEL2
D1	LABEL3

*1 Only lower 2 bytes are read. Data are not read from the specified device H (upper 2 bytes).

■When FD device is specified (4-word device)

Example: Read 3 points of data from the devices including FD0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	FD0
[2]	LABEL3	Word	D1

·Number of read points: 3

· Read device values

2 Bytes	Applicable label
D0	LABEL1
LL of FD0*1	LABEL2
D1	LABEL3

*1 Only lower 2 bytes are read. Data are not read from the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Read data by specifying labels of Double Word, Float (Single Precision), Float (Double Precision), String[*1], and Time types.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Double Word	D0
[1]	LABEL2	Float (Single Precision)	D100
[2]	LABEL3	Float (Double Precision)	D200
[3]	LABEL4	String	D300
[4]	LABEL5	Time	D400

·Number of read points: 27

· Read device values

2 Bytes	Applicable label
D0	LABEL1
D1	
D100	LABEL2
D101	
D200	LABEL3
D201	
D202	
D203	
D300 : D316[*1]	LABEL4
D400	LABEL5
D401	

*1 The number of points of characters to be read is 17 (32 characters + NULL).
The characters need to be converted in a user program because the characters of String type are not converted.

■When array type label is specified

Example: Read data from the devices by specifying array type labels.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit (0..1)	M0
[1]	LABEL2	Word (0..1)	CN200
[2]	LABEL3	Double Word (0..1)	D0

·Number of read points: 8

· Read device values

2 Bytes	Applicable label
M0	LABEL1[0]
M1	LABEL1[1]
L of CN200	LABEL2[0]
L of CN201	LABEL2[1]
D100	LABEL3[0]
D101	
D102	LABEL3[1]
D103	

■When structure type labels are specified

Example: Read data from the devices by specifying structure type labels.

· Structure setting

Structure name	Label name	Data type
STRUCT	L1	Bit
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT	L1	D0.0
			L2	D0
[1]	LABEL2	STRUCT	L1	M10
			L2	CN200

·Number of read points: 6

· Read device values

2 Bytes	Applicable label
D0.0	LABEL1.L1
D0	LABEL1.L2
D1	
M0	LABEL2.L1
L of CN200	LABEL2.L2
L of CN201*1	

*1 Data of two devices are read when the device of CN200 and later is specified for the Double Word type label.

■When labels in combination with structure and array are specified

Example: Read data from the devices by specifying structure type array and structure array type label.

· Structure setting

Structure name	Label name	Data type
STRUCT1	L1	Bit
	L2	Word
STRUCT2	L1	Bit (0..2)
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT1(0..1)	L1	X0
			L2	D0
[1]	LABEL2	STRUCT2	L1	M0
			L2	D100

·Number of read points: 9

· Read device values

2 Bytes	Applicable label
X0	LABEL1[0].L1
D0	LABEL1[0].L2
X1	LABEL1[1].L1
D1	LABEL1[1].L2
M0	LABEL2.L1[0]
M1	LABEL2.L1[1]
M2	LABEL2.L1[2]
D100	LABEL2.L2
D101	

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of read points is 0x7FFFFFFF.
- For the number of read points, specify the number of words which applies to the data type specified for the label name.
  For the read device values, reserve a memory area for the number of points specified for the number of read points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be read.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be read.
- When a Double Word device is specified, only the data of the lower 1 word (2 bytes) are stored using this function.(An error does not occur.)
  When reading data from a Double Word device, use the ReadDeviceRandom function or the ReadDeviceBlock2 function.
- Digit specified bit device and index setting cannot be used.

WriteDeviceRandom2 (Writing devices randomly)

Applicable controls

Applicable to the DotUtlType control.

Feature

Write devices in 2-byte data unit randomly.

Format

■Visual Basic .NET

Ret = object.WriteDeviceRandom2(szLabel, iSize, sData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Integer	iSize	Number of write points	Input
Short	sData(n)	Device value to be written	Input

Ret = object.WriteDeviceRandom2(szLabelList, iSize, sData)

Integer	IRet	Returned value	Output
String	szLabelList(n)	Label list	Input
Integer	iSize	Number of write points	Input
Short	sData(n)	Device value to be written	Input

■Visual C++ .NET

iRet = object.WriteDeviceRandom2(szLabel, iSize, sData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
int	iSize	Number of write points	Input
array<short>^	sData	Device value to be written	Input

iRet = object.WriteDeviceRandom2(szLabelList, iSize, sData)

int	iRet	Returned value	Output
array<System::String^>^	szLabelList	Label list	Input
int	iSize	Number of write points	Input
array<short>^	sData	Device value to be written	Input

■Visual C# .NET

iRet = object.WriteDeviceRandom2(szLabel, iSize, sData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
int	iSize	Number of write points	Input
short[n]	sData	Device value to be written	Input

iRet = object. WriteDeviceRandom2 (szLabelList, iSize, sData)

int	iRet	Returned value	Output
System.String[n]	szLabelList	Label list	Input
int	iSize	Number of write points	Input
short[n]	sData	Device value to be written	Input

Description

- Data of a device group for the size of iSize specified for the label name szLabel are written.
- Store the device values to be written in sData.
- For sData, reserve arrays for more than the amount specified for iSize.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word, Float (Single Precision), Float (Double Precision), String[*1], String (Unicode)[*1], Time, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name
Array		Label name
Array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements] Label name [n1] [n2] [n3]
Structure		Label name
Structure member	(The label data type can be specified in the same manner as the basic type.)	Label name.Member name
Structured array		Label name [number of elements]
Structured array member	(The label data type can be specified in the same manner as the basic type.)	Label name [number of elements].Member name Label name [n1] [n2] [n3].Element

*1 The maximum number of characters that can be specified is 32 + NULL.

■Number of write points

For the number of write points, specify the sum of the following values correspond to the elements according to the label data type.

Label data type	Number of applicable words	Number of write points to be specified
Bit, Word	1	Number of label elements
Double Word, Float (Single Precision)	2	Number of label elements multiplied by 2
Float (Double Precision)	4	Number of label elements multiplied by 4
String	17	Number of label elements multiplied by 17
String (Unicode)	33	Number of label array elements multiplied by 33
Time	2	Number of label elements multiplied by 2
Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	1	Number of label elements

How to specify devices

Set the device values to be written as follows.

■When bit device and word device are specified

Example: Write data to each 1 point of M0 and D0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit	M0
[1]	LABEL2	Word	D0

· Number of write points: 2

·Device values to be written

2 Bytes
M0*1
D0

*1 The target device to which data is written is only one point of "M0", and the least significant bit of the set 2-byte data is written as the device value.

■When CN200 and later devices of FXCPU are specified

Example: Write 3 points of data to the devices including CN200.

4 bytes are written as 1 point for CN200 and later devices of FXCPU.

Only lower 2 bytes can be set.

"0" is written to the specified device H (upper 2 bytes).

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	CN200
[2]	LABEL3	Word	D1

· Number of write points: 3

·Device values to be written

2 Bytes	Applicable label
D0	LABEL1
L of CN200	LABEL2
D1	LABEL3

■When FD device is specified (4-word device)

Example: Write 3 points of data to the devices including FD0.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Word	D0
[1]	LABEL2	Word	FD0
[2]	LABEL3	Word	D1

· Number of write points: 3

·Device values to be written

2 Bytes	Applicable label
D0	LABEL1
LL of FD0*1	LABEL2
D1	LABEL3

*1 Only lower 2 bytes can be set.
"0" is written to the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Write data by specifying labels of Double Word, Float (Single Precision), Float (Double Precision), String[*1], and Time types.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Double Word	D0
[1]	LABEL2	Float (Single Precision)	D100
[2]	LABEL3	Float (Double Precision)	D200
[3]	LABEL4	String	D300
[4]	LABEL5	Time	D400

· Number of write points: 27

·Device values to be written

2 Bytes	Applicable label
D0	LABEL1
D1	
D100	LABEL2
D101	
D200	LABEL3
D201	
D202	
D203	
D300 : D316[*1]	LABEL4
D400	LABEL5
D401	

*1 The number of points of characters to be written is 17 (32 characters + NULL).
The characters need to be converted in a user program because the characters of String type are not converted.

■When array type label is specified

Example: Write data to the devices by specifying array type labels.

· Label setting

szLabelList		Data type	Device
[0]	LABEL1	Bit (0..1)	M0
[1]	LABEL2	Word (0..1)	CN200
[2]	LABEL3	Double Word (0..1)	D0

· Number of write points: 8

·Device values to be written

2 Bytes	Applicable label
M0	LABEL1[0]
M1	LABEL1[1]
L of CN200	LABEL2[0]
L of CN201	LABEL2[1]
D100	LABEL3[0]
D101	
D102	LABEL3[1]
D103	

■When structure type labels are specified

Example: Write data to the devices by specifying structure type labels.

· Structure setting

Structure name	Label name	Data type
STRUCT	L1	Bit
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT	L1	D0.0
			L2	D0
[1]	LABEL2	STRUCT	L1	M10
			L2	CN200

· Number of write points: 5

·Device values to be written

2 Bytes	Applicable label
D0.0	LABEL1.L1
D0	LABEL1.L2
D1	
M0	LABEL2.L1
L of CN200	LABEL2.L2

■When labels in combination with structure and array are specified

Example: Write data to the devices by specifying structure type array and structure array type label.

· Structure setting

Structure name	Label name	Data type
STRUCT1	L1	Bit
	L2	Word
STRUCT2	L1	Bit (0..2)
	L2	Double Word

· Label setting

szLabelList		Data type	Label name	Device
[0]	LABEL1	STRUCT1(0..1)	L1	X0
			L2	D0
[1]	LABEL2	STRUCT2	L1	M0
			L2	D100

· Number of write points: 9

·Device values to be written

2 Bytes	Applicable label
X0	LABEL1[0].L1
D0	LABEL1[0].L2
X1	LABEL1[1].L1
D1	LABEL1[1].L2
M0	LABEL2.L1[0]
M1	LABEL2.L1[1]
M2	LABEL2.L1[2]
D100	LABEL2.L2
D101	

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- The maximum number of write points is 0x7FFFFFFF.
- For the number of write points, specify the number of words which applies to the data type specified for the label name.
  For the device values to be written, reserve a memory area for the number of points specified for the number of write points.
  If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a device which corresponds to the label name does not exist, an error occurs and data cannot be written.
  When any one of devices which correspond to multiple label names does not exist, an error occurs and data cannot be written.
- When a Double Word device is specified, this function writes data of lower 1 word (2 bytes), and "0" is written to data of upper 1 word (2 bytes).
  When writing Double Word devices, use the WriteDeviceRandom or the WriteDeviceBlock2 function.
- Digit specified bit device and index setting cannot be used.
- If a Q motion CPU is accessed, an error is returned.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

SetDevice2 (Set device data)

Applicable controls

Applicable to the DotUtlType control.

Feature

Set one point of device in 2-byte data unit.

Format

■Visual Basic .NET

IRet = object.SetDevice2(szLabel, sData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Short	sData	Device value to be written	Input

■Visual C++ .NET

iRet = object.SetDevice2(szLabel, sData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
short	sData	Device value to be written	Input

■Visual C# .NET

iRet = object.SetDevice2(ref szLabel, sData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
short	sData	Device value to be written	Input

Description

- The values of sData (device values to be written) are written to 1 point of device specified for szLabel (label name).
- When specifying bit devices, the least significant bit of the sData (device values to be written) is valid.

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word*1, Float (Single Precision)*1, Float (Double Precision)*1, String*1, String (Unicode), Time*1, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name

*1 Only lower 2 bytes of start device can be written.
When writing 2 words or more of devices, use the WriteDeviceBlock2 function.

How to specify devices

Set the device values to be written as follows.

■When bit device is specified

Example: Write data to M0.

· Label setting

Data type	Device
Bit	M0

·Device values to be written

2 Bytes
M0*1

*1 The target device to which data is written is only one point of "M0", and the least significant bit of the set 2-byte data is written as the device value.

■When word device is specified

Example: Write data to D0.

· Label setting

Data type	Device
Word	D0

·Device values to be written

2 Bytes
D0

■When CN200 or later device of FXCPU is specified

Example: Write data to CN200.

For CN200 and later devices of FXCPU, 4 bytes are written.

Only lower 2 bytes can be set.

"0" is written to the specified device H (upper 2 bytes).

· Label setting

Data type	Device
Double Word	CN200

·Device values to be written

2 Bytes
L of CN200

■When FD device is specified (4-word device)

Example: Write data by specifying FD0.

· Label setting

Data type	Device
Word	FD0

·Device values to be written

2 Bytes
LL of FD0*1

*1 Only lower 2 bytes are written. Data cannot be written to the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Write data by specifying String type label.

· Label setting

Data type	Device
String	D0

·Device values to be written

2 Bytes
D0*1

*1 Only lower 2 bytes are written to the start device.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When a device which corresponds to the label name does not exist, an error occurs and data cannot be written.
- When a Double Word device is specified, this function writes data of lower 1 word (2 bytes), and "0" is written to data of upper 1 word (2 bytes).
  When writing Double Word devices, use the WriteDeviceRandom or the WriteDeviceBlock2 function.
- Digit specified bit device and index setting cannot be used.
- If the function is run against the safety device in the RnSFCPU safety mode, an error code 0x010A42A5" (an operation that can not be carried out in safety mode was performed) is returned.

GetDevice2 (Acquiring device data)

Applicable controls

Applicable to the DotUtlType control.

Feature

Acquire one point of device in 2-byte data unit.

Format

■Visual Basic .NET

IRet = object.GetDevice2(szLabel, sData)

Integer	IRet	Returned value	Output
String	szLabel	Label name	Input
Short	sData	Read device value	Output

■Visual C++ .NET

iRet = object.GetDevice2(szLabel, sData)

int	iRet	Returned value	Output
String^	szLabel	Label name	Input
short	sData	Read device value	Output

■Visual C# .NET

iRet = object.GetDevice2(ref szLabel, ref sData)

int	iRet	Returned value	Output
String	szLabel	Label name	Input
short	sData	Read device value	Output

Description

- One point of device data specified for szLabel (label name) is stored in sData (read device values).

How to specify labels

The following describes how to specify labels.

■Data type

The following data type can be specified for label name.

Type class	Label data type	Label name format
Basic type	Bit, Word, Double Word*1, Float (Single Precision)*1, Float (Double Precision)*1, String*1, String (Unicode), Time*1, Timer, Long timer, Counter, Long counter, Retentive Timer, Long retentive timer	Label name

*1 Only lower 2 bytes of start device can be read.
When reading 2 words or more of devices, use the ReadDeviceBlock2 function.

How to specify devices

The read device values are stored as follows.

■When bit device is specified

Example: Read data from M0.

· Label setting

Data type	Device
Bit	M0

· Read device values

2 Bytes
M0*1

*1 The target device from which data is read is only one point of "M0", and "0" or "1" is stored as the device value.

■When word device is specified

Example: Read data from D0.

· Label setting

Data type	Device
Word	D0

· Read device values

2 Bytes
D0

■When CN200 and later devices of FXCPU are specified

Example: Read data from CN200.

The specified device L (lower 2 bytes) is read as 1 point for FXCPU devices of CN200 and later.

Data are not read from the specified device H (upper 2 bytes).

· Label setting

Data type	Device
Double Word	CN200

· Read device values

2 Bytes
L of CN200

■When FD device is specified (4-word device)

Example: Read data by specifying FD0.

· Label setting

Data type	Device
Word	FD0

· Read device values

2 Bytes
LL of FD0*1

*1 Only lower 2 bytes are read. Data are not read from the specified devices HH, HL, and LH (upper 6 bytes).

■When data type equivalent to 2 words or more is specified for label

Example: Read data by specifying String type label.

· Label setting

Data type	Device
String	D0

· Read device values

2 Bytes
D0*1

*1 Only lower 2 bytes are read to the start device.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Point

- When a device which corresponds to the label name does not exist, an error occurs and data cannot be read.
- For the read device values, reserve 2 bytes of memory area. If the memory area is not reserved, a critical error (an application error or the like) may occur.
- When a Double Word device is specified, only the data of the lower 1 word (2 bytes) are stored using this function. (An error does not occur.)
  When reading data from a Double Word device, use the ReadDeviceRandom function or the ReadDeviceBlock2 function.
- Digit specified bit device and index setting cannot be used.

Connect (Connecting telephone line)

Applicable controls

Applicable to the DotUtlType control.

Feature

Connect the telephone line.

Format

■Visual Basic .NET

IRet = object.Connect()

Integer	IRet	Returned value	Output

■Visual C++ .NET

iRet = object.Connect()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object.Connect()

int	iRet	Returned value	Output

Description

- The telephone line is connected according to the property settings of the modem communication control.
- When routing a serial communication module, the telephone line is connected in the connection system set in the ActConnectWay property.
  When auto line connect (callback number specification), callback connect (number specification), or callback request (number specification) is set in the ActConnectWay property, an error occurs if a number is not set in the ActCallbackNumber property.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for executing the Connect function

- Always connect the telephone line before the execution of the Open function.
- When disconnecting the telephone line, execute the Disconnect function.
  During the execution of the Connect function, the telephone line remains connected even when the Open and Close functions are executed repeatedly.
- If the telephone line is disconnected in the Open status for some reason, always execute the Close function before reconnecting the telephone line.

Considerations when using multiple telephone line connection objects

- When control types, port numbers, and telephone numbers of controls are different
  When control types, port numbers, and telephone numbers set to multiple controls are different, an error (error code: 0xF1000016) occurs if the Connect function is executed to connect the control whose port number and telephone number are different from those of the control which executed the Connect function first.
- When port numbers and telephone numbers of controls are the same
  When control types, port numbers, and telephone numbers set to multiple controls are the same, the termination status are different according to the connection system of the callback function. The following table shows the relations between the connection system and the termination status of the callback function.

○: Normal termination ×: Abnormal termination (Error occurrence)

Connection system of control which executed the Connect function first	**Connection system of control which executed the Connect function second or Later**			
	Auto line connect Auto line connect (Callback fixation) Auto line connect (Callback number specification)	**Callback connect (Fixation) Callback connect (Number specification)**	**Callback request (Fixation) Callback request (Number specification)**	**Callback reception waiting**
Auto line connect Auto line connect (Callback fixation) Auto line connect (Callback number specification)	○	○	×	×
Callback connect (Fixation) Callback connect (Number specification)	○	○	×	×
Callback request (Fixation) Callback request (Number specification)	○	○	○	○
Callback reception waiting	×	×	×	○

Disconnect (Disconnecting telephone line)

Applicable controls

Applicable to the DotUtlType control.

Feature

Disconnect the telephone line.

Format

■Visual Basic .NET

IRet = object.Disconnect()

Integer	IRet	Returned value	Output

■Visual C++ .NET

iRet = object.Disconnect()

int	iRet	Returned value	Output

■Visual C# .NET

iRet = object.Disconnect()

int	iRet	Returned value	Output

Description

The telephone line that was connected using the Connect function is disconnected.

Returned value

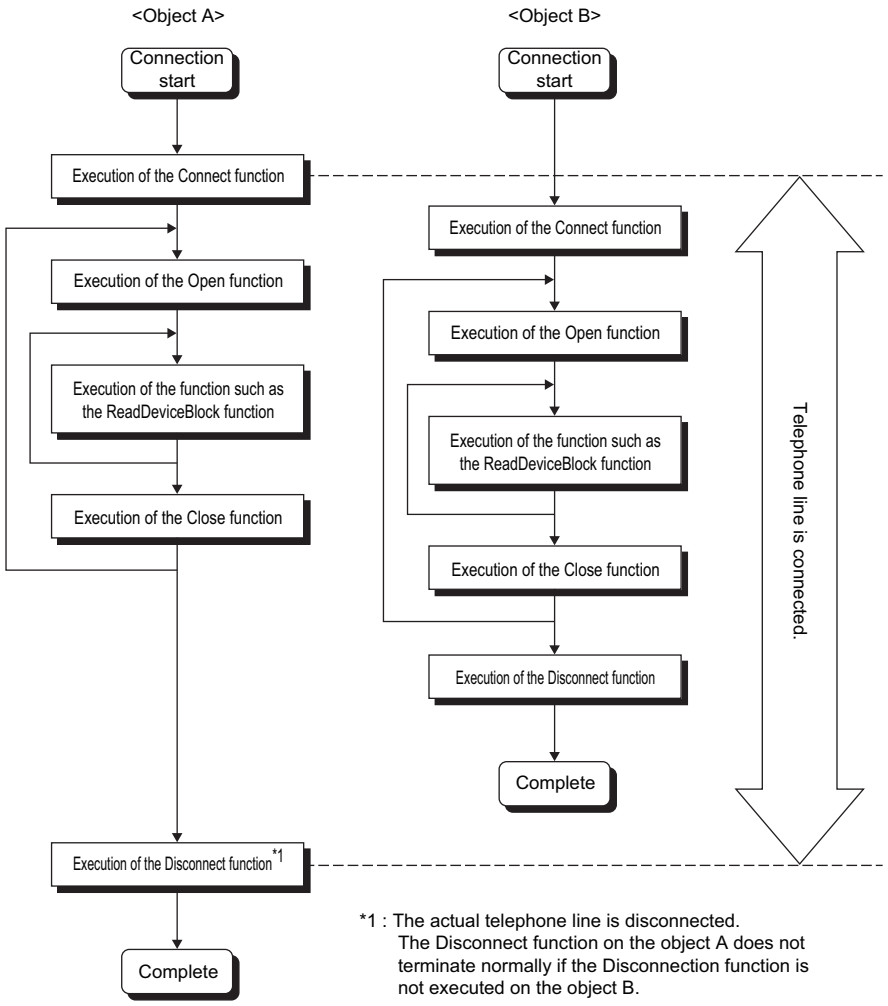
Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

Considerations for executing the Disconnect function

- When executing the Disconnect function during the execution of the Open function, execute the Close function before executing the Disconnect function.
- If the telephone line is disconnected in the Open status for some reason, always execute the Close function before reconnecting the telephone line.
- When multiple telephone line connection objects are used, execute the Disconnect function on the object which executed the Connect function first after executing the Disconnect function on other objects.
  When multiple telephone line connection objects are used, the telephone line is not disconnected if the Disconnect function is not executed on the object that executed the Connect function first.
  The following figure shows the example of how to use multiple objects simultaneously.

Example: When using two controls simultaneously
(Including the case when the objects A and B are operated by different applications)



*1 : The actual telephone line is disconnected.
The Disconnect function on the object A does not terminate normally if the Disconnection function is not executed on the object B.

GetErrorMessage (Receiving error message)

Applicable controls

Applicable to the DotSupportMsg control.

Feature

Receive the error description and its corrective action corresponding to the error code.

Format

■Visual Basic .NET

IRet = object.GetErrorMessage(IErrorCode, szErrorMessage)

Integer	IRet	Returned value	Output
Integer	IErrorCode	Error code	Input
String	szErrorMessage	Error message	Output

■Visual C++ .NET

iRet = object.GetErrorMessage(iErrorCode, szErrorMessage)

int	iRet	Returned value	Output
int	iErrorCode	Error code	Input
String^	szErrorMessage	Error message	Output

■Visual C# .NET

iRet = object.GetErrorMessage(iErrorCode, ref szErrorMessage)

int	iRet	Returned value	Output
int	iErrorCode	Error code	Input
String	szErrorMessage	Error message	Output

Description

- The error description and its corrective action of the error code specified for IErrorCode (iErrorCode) are read.
- The read error description and its corrective action are stored in szErrorMessage.

Returned value

Normal termination: 0 is returned.

Abnormal termination: Any value other than 0 is returned.(☞ Page 552 ERROR CODES)

6 SAMPLE PROGRAMS

This chapter explains the sample programs registered at the installation of MX Component.

Sample programs, test programs, and sample sequence programs

■Sample programs and test programs

Sample programs are for references when creating user programs.

Test programs are for conducting communication tests.

Use the programs with your responsibility.

■Sample sequence programs

Sample sequence programs require modifications according to the system configuration and parameter settings.

Modify the program to suit the system.

Use the programs with your responsibility.

List of sample programs, test programs, and sample sequence programs

The following table shows the list of sample programs registered under [user specified folder] - [Act] - [Samples] when installing MX Component.

■Folder name: AccessVBA

Folder name		Description	Supported language	Reference
AccessVBA	Sample	Sample program for ActUtlType	VBA(Access)	Page 530 Sample program for Access
	TestPro	Test program for ActUtlType*1		—

*1 A test program for checking operations.

■Folder name: ExcelVBA

Folder name		Description	Supported language	Reference
ExcelVBA	Sample	Sample program for ActUtlType	VBA(Excel)	Page 526 Sample program for Excel
		Sample program for ActUtlType and ActSupportMsg (Reading/writing devices)		Page 528 Sample program for Excel (Reading/writing devices)
	TestPro	Test program for ActUtlType and ActSupportMsg*1		—

*1 A test program for checking operations.

■Folder name: VBScript

Folder name		Description	Supported language	Reference
VBScript*2	SampleASP	Sample program for ActMLUtlType	HTML (ASP function)	Page 533 ASP Sample Programs
	SampleHTML		HTML	Page 532 VBScript Sample Program
	TestPro	Test program for ActUtlType and ActSupportMsg*1		—

*1 A test program for checking operations.

*2 The test programs will be operate with the following Internet Explorer.

- Internet Explorer 8
- Internet Explorer 9
- Internet Explorer 10
- Internet Explorer 11

■Folder name: Vb.NET

Folder name		Description	Supported language	Reference
Vb.NET[*1]	ModemSample	Modem communication sample program for ActUtlType and ActSupportMsg	Visual Basic .NET(Visual Studio 2005)	Page 536 Modem communication sample program
	ModemSample2010		Visual Basic .NET(Visual Studio 2010)	
	Sample	Read/Write sample program for ActUtlType and ActProgType	Visual Basic .NET(Visual Studio 2005)	Page 538 Read/Write sample program
	Sample2010		Visual Basic .NET(Visual Studio 2010)	
	SampleDot	Read/Write sample program for DotUtlType	Visual Basic .NET(Visual Studio 2005)	
	SampleDot2010		Visual Basic .NET(Visual Studio 2010)	
	Sample_References	Read/Write sample program for ActUtlType and ActProgType (for Reference)	Visual Basic .NET(Visual Studio 2005)	
	Sample_References2010		Visual Basic .NET(Visual Studio 2010)	
	Sample_ReferencesDot	Read/Write sample program for DotUtlType (for Reference)	Visual Basic .NET(Visual Studio 2005)	
	Sample_ReferencesDot2010		Visual Basic .NET(Visual Studio 2010)	
	Sample_TypeConv	Type conversion sample program for ActUtlType and ActSupportMsg	Visual Basic .NET(Visual Studio 2005)	Page 541 Type conversion sample program
	Sample_TypeConv2010		Visual Basic .NET(Visual Studio 2010)	
	SampleDataLogging2010	Logging file transfer sample program for ActUtlDataLogging and ActProgDataLogging	Visual Basic .NET(Visual Studio 2010)	Page 543 Logging file transfer sample program
	SampleDataLogging_References2010	Logging file transfer sample program for ActUtlDataLogging and ActProgDataLogging (for Reference)	Visual Basic .NET(Visual Studio 2010)	

*1 When the operation environment of the sample program is Visual Studio 2013/2015, the installation of MFC library (DLL) for multiple byte character encode (MBCS) is required.

■Folder name: Vc.NET

Folder name		Description	Supported language	Reference
Vc.NET	Sample2005	Read/Write sample program for ActUtlType and ActProgType	Visual Basic .NET(Visual Studio 2005)	Page 544 Read/Write sample program
	Sample2010		Visual Basic .NET(Visual Studio 2010)	
	Sample2017		Visual Basic .NET(Visual Studio 2017)	
	SampleDot2005	Read/Write sample program for DotUtlType	Visual Basic .NET(Visual Studio 2005)	
	SampleDot2010		Visual Basic .NET(Visual Studio 2010)	
	SampleDot2017		Visual Basic .NET(Visual Studio 2017)	
	Sample_References2005	Read/Write sample program for ActUtlType and ActProgType (for Reference)	Visual Basic .NET(Visual Studio 2005)	
	Sample_References2010		Visual Basic .NET(Visual Studio 2010)	
	Sample_References2017		Visual Basic .NET(Visual Studio 2017)	
	Sample_ReferencesDot2005	Read/Write sample program for DotUtlType (for Reference)	Visual Basic .NET(Visual Studio 2005)	
	Sample_ReferencesDot2010		Visual Basic .NET(Visual Studio 2010)	
	Sample_ReferencesDot2017		Visual Basic .NET(Visual Studio 2017)	
	Sample_Support	Troubleshooting function sample program for DotSupportMsg	Visual Basic .NET(Visual Studio 2005)	Page 545 Troubleshooting function sample program
	Sample_Support2010		Visual Basic .NET(Visual Studio 2010)	
	Sample_Support2017		Visual Basic .NET(Visual Studio 2017)	

■Folder name: Vcs.NET

Folder name		Description	Supported language	Reference
Vcs.NET*1	Sample	Read/Write sample program for ActUtlType and ActProgType	Visual C# .NET(Visual Studio 2005)	Page 546 Read/Write sample program
	Sample2010		Visual C# .NET(Visual Studio 2010)	
	SampleDot	Read/Write sample program for DotUtlType	Visual C# .NET(Visual Studio 2005)	
	SampleDot2010		Visual C# .NET(Visual Studio 2010)	
	Sample_References	Read/Write sample program for ActUtlType and ActProgType (for Reference)	Visual C# .NET(Visual Studio 2005)	
	Sample_References2010		Visual C# .NET(Visual Studio 2010)	
	Sample_ReferencesDot	Read/Write sample program for DotUtlType (for Reference)	Visual C# .NET(Visual Studio 2005)	
	Sample_ReferencesDot2010		Visual C# .NET(Visual Studio 2010)	
	SampleDataLogging2010	Logging file transfer sample program for ActUtlDataLogging and ActProgDataLogging	Visual C# .NET(Visual Studio 2010)	Page 546 Logging file transfer sample program
	SampleDataLogging_References2010	Logging file transfer sample program for ActUtlDataLogging and ActProgDataLogging (for Reference)	Visual C# .NET(Visual Studio 2010)	

*1 When the operation environment of the sample program is Visual Studio 2013/2015, the installation of MFC library (DLL) for multiple byte character encode (MBCS) is required.

■Folder name: Vc

Folder name		Description	Supported language	Reference
Vc	Sample	Read/Write sample program for ActUtlType and ActProgType	Visual C++ .NET(MFC)(Visual Studio 2005)	Page 547 Dispatch interface
	Sample2017		Visual C++ .NET(MFC)(Visual Studio 2017)	
	CustomSample	Read/Write sample program for ActUtlType and ActProgType	Visual C++ .NET(MFC)(Visual Studio 2005)	Page 549 Custom interface
	CustomSample2017		Visual C++ .NET(MFC)(Visual Studio 2017)	
	Sample_Support	For ActSupportMsg	Visual C++ .NET(MFC)(Visual Studio 2005)	Page 550 Troubleshooting function sample program
	Sample_Support2017		Visual C++ .NET(MFC)(Visual Studio 2017)	
	CustomSampleDataLogging2010	Logging file transfer sample program for ActUtlDataLogging and ActProgDataLogging	Visual C++ .NET(MFC)(Visual Studio 2010)	Page 551 Logging file transfer sample program
	CustomSampleDataLogging2017		Visual C++ .NET(MFC)(Visual Studio 2017)	
	SampleDataLogging2010		Visual C++ .NET(MFC)(Visual Studio 2010)	
	SampleDataLogging2017		Visual C++ .NET(MFC)(Visual Studio 2017)	

■Folder name: GppW

Folder name		Description	Supported language	Reference
GppW	CCG4A	Sample ladder for CC-Link G4 communication	Sequence program (GX Developer)	MX Component Version 4 Operating Manual.
	FXCPUtel	Sample ladder for modem communication (FXCPU)		
	QJ71C24Callback	Sample ladder for modem communication (Q series-compatible C24) in which the setting 1 is specified for the callback function		
	QJ71C24Callback_Number	Sample ladder for modem communication (Q series-compatible C24) in which the setting 3 is specified for the callback function		
	QJ71C24TEL	Sample ladder for modem communication (Q series-compatible C24)		

6.1 VBA Sample Programs

This section explains the VBA sample programs for Excel and Access.

Sample program for Excel

This sample program is a program to log and graph device values of a programmable controller CPU using the ActUtlType control.
This sample program was created on Excel 2003.

How to use the sample program

1. Open the sample sheet.
2. Enter the logical station number, which was specified for the communication setting in Communication Setup Utility, into the "LogicalStationNumber" input cell.
3. Enter the start device of devices to be read into the "DeviceName" input cell.
4. Enter the logging interval into the "LoggingTiming" input cell.
5. Click the [LoggingStart] button to start logging.
   When the logging starts, the past 10 device values and line graphs are displayed on the graph.
6. Click the [LoggingStop] button to stop logging.
   Note that the logging data on the screen are not cleared.
7. If an error occurs during the process, an error message is displayed on the "Message" output cell and an error code is displayed on the "Return Code" output cell.
   When an error occurs, perform the troubleshooting corresponds to the error code.(☞ Page 552 ERROR CODES)

Considerations for using the sample program

- Before executing the sample program, set the communication settings in Communication Setup Utility.
- When changing the input value, click the [LoggingStop] button to stop logging, change the input value, and click the [LoggingStart] button to start logging.
- In this sample program, the number of device points to be logged is 10, and the number of logging times is 10.

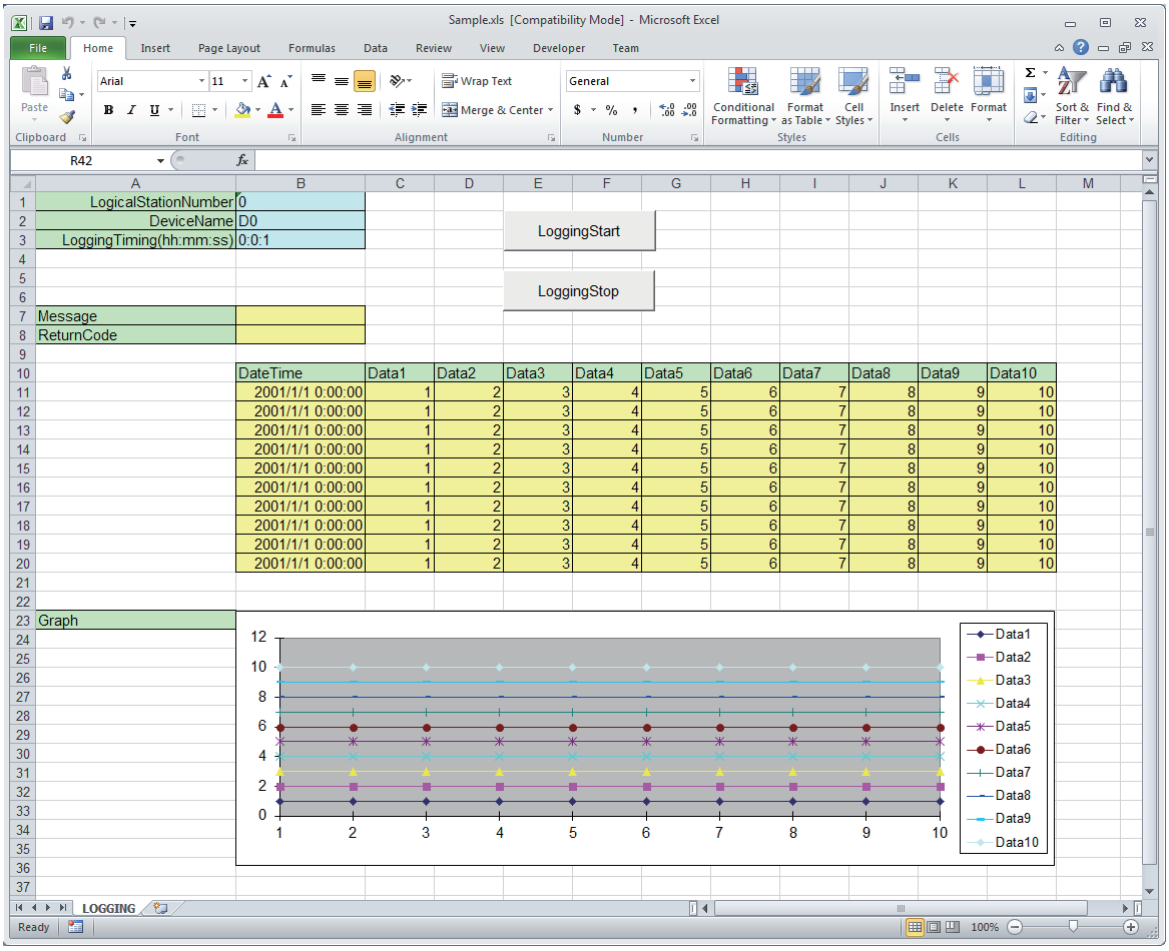
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [ExcelVBA] - [Sample]	Sample.xls

Screen

The following explains the settings on the sample program screen.



Item	Description
LogicalStationNumber	Enter the logical station number which was specified for the communication setting in Communication Setup Utility.
DeviceName	Enter the start device of devices to be read.
LoggingTiming (hh:mm:ss)	Enter the logging interval. Example: Logging at an interval of 1 second: 0:0:1 Logging at an interval of 1 hour 30 minutes: 1:30:0
Message	Display the function execution result. (Character string)
ReturnCode	Display the function execution result. (Hexadecimal value)
Time	Display the logged system time.
Data01 to 10	Display the logged device values.
Graph	Display the past 10 logged values of 10 devices in line graphs.
[LoggingStart] button	Start logging.
[LoggingStop] button	Stop logging.

Sample program for Excel (Reading/writing devices)

This sample program is a program to read/write the programmable controller CPU devices (D0 to D9) using the ActUtlType control.
This program displays the error code and error message on the dialog box using the ActSupportMsg control when an error occurs.
This sample program was created on Excel 2003.

How to use the sample program

1. Open the sample sheet.
2. Enter the logical station number, which was specified for the communication setting in Communication Setup Utility, into the "LogicalStationNumber" input cell.
3. Click the [DeviceRead] button to read the device values of D0 to D9 of the programmable controller CPU and display them on the DeviceRead area.
4. Enter values into D0 to D9 of the DeviceWrite area and click the [DeviceWrite] button to write the values to D0 to D9 of the programmable controller CPU.
5. If reading/writing data from/to the devices D0 to D9 fails, the error message corresponds to the error code is displayed on the dialog box.

Considerations for using the sample program

Before executing the sample program, set the communication settings in Communication Setup Utility.

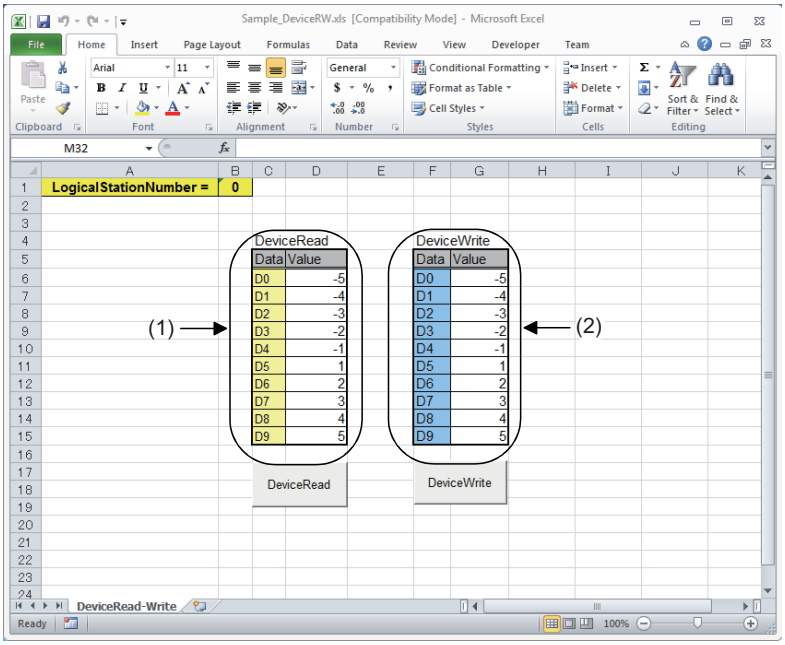
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [ExcelVBA] - [Sample]	Sample_DeviceRW.xls

Screen

The following explains the settings on the sample program screen.



Item	Description
LogicalStationNumber	Enter the logical station number which was specified for the communication setting in Communication Setup Utility.
(1) (DeviceRead area)	Display the device values of D0 to D9 of the programmable controller CPU.
(2) (DeviceWrite area)	Enter the values to be written into D0 to D9 of the programmable controller CPU.
[DeviceRead] button	Read the device values of D0 to D9 of the programmable controller CPU and display them on the DeviceRead area.
[DeviceWrite] button	Write the device values entered into D0 to D9 of the DeviceWrite area to D0 to D9 of the programmable controller CPU.

Sample program for Access

This sample program is a program to log and monitor device values of a programmable controller CPU using the ActUtlType control.
This sample program was created on Access 2003.

How to use the sample program

1. Open the database.
2. Enter the logical station number, which was specified for the communication setting in Communication Setup Utility, into the "LogicalStationNumber" text box.
3. Enter the logging interval into the "LoggingTiming" text box.
4. Click the [LoggingStart] button to start logging.
5. Click the [LoggingStop] button to stop logging.
   Note that the logging data on the screen are not cleared.
6. If an error occurs during the process, an error message and error code are displayed on the message box. When an error occurs, perform the troubleshooting corresponds to the error code.(☞ Page 552 ERROR CODES)

Considerations for using the sample program

- Before executing the sample program, set the communication settings in Communication Setup Utility.
- When changing the input value, click the [LoggingStop] button to stop logging, change the input value, and click the [LoggingStart] button to start logging.
- In this sample program, devices "D0" to "D4" are set as the devices to be monitored, and "D10" to "D17" are set as the devices to be logged.
  The monitoring interval is 1 second.
- This sample program logs device values up to 100 times.
  If the number of logging times exceeds 100, the oldest logging data is deleted and the newest logging data is registered.

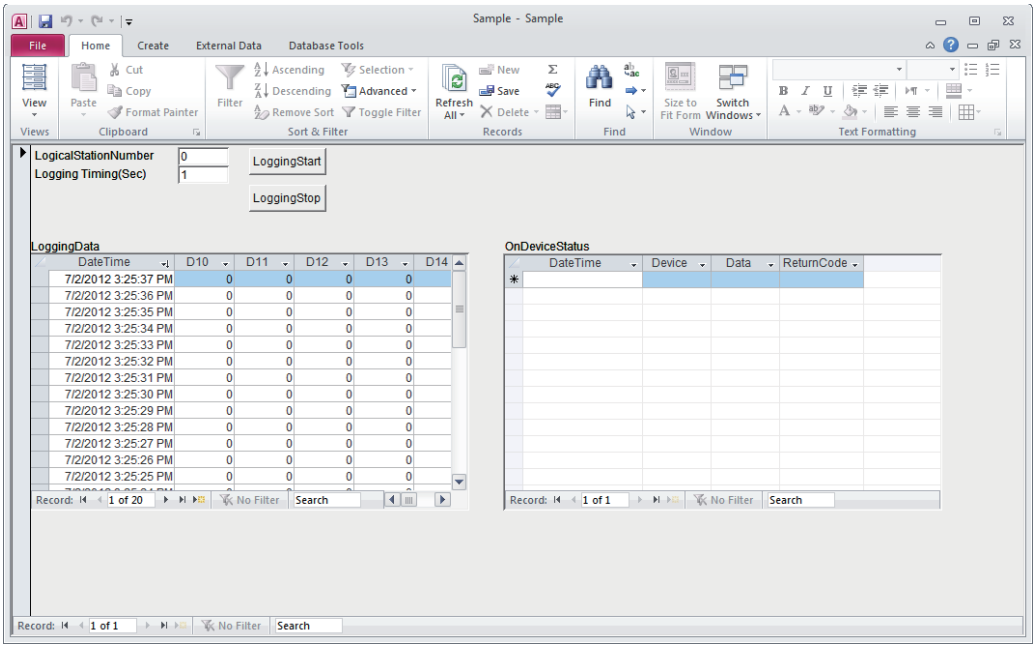
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [AccessVBA] - [Sample]	Sample.mdb

Screen

The following explains the settings on the sample program screen.



Item	Description
LogicalStationNumber	Enter the logical station number which was specified for the communication setting in Communication Setup Utility.
LoggingTiming	Enter the logging interval. (In seconds)
LoggingData	Display the logged data.
OnDeviceStatus	Display the devices whose conditions are satisfied among the devices being monitored.
[LoggingStart] button	Start logging.
[LoggingStop] button	Stop logging.

6.2 VBScript Sample Program

This section explains the VBScript sample program.
This sample program is a program to define device values of a programmable controller CPU as a capacity and status of a tank, and monitor their values using the ActUtlType control.
This sample program was created on Microsoft FrontPage® 2000.

How to use the sample program

1. Open the sample file to open the communication line to the programmable controller CPU.
2. The device values of the programmable controller CPU are acquired at an interval of 1 second and they are used to display the capacity and status of the tank.
3. If an error occurs during the process, an error message and error code are displayed on the message box. When an error occurs, perform the troubleshooting corresponds to the error code.(☞ Page 552 ERROR CODES)

Considerations for using the sample program

- Before executing the sample program, set the logical station number to "0" for the communication setting in Communication Setup Utility.
- In this sample program, the device "D100" is used for the tank capacity, and the device "D101" is used for the tank status.

Sample file

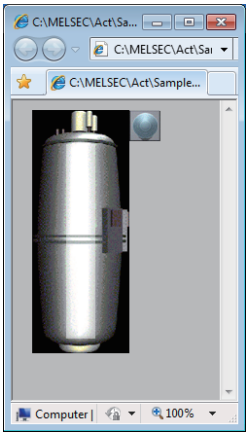
The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [VBScript] - [SampleHTML]	Sample.html

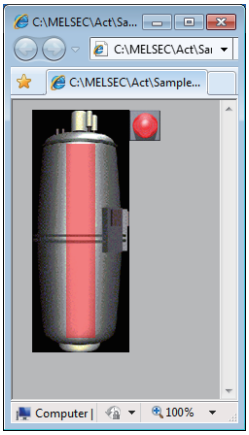
Screen

The following explains the settings on the sample program screen.

Tank capacity: Empty
Tank status: Normal



Tank capacity: Full
Tank status: Error



Item	Description	Remarks
Tank capacity	Indicate the tank capacity. (Within the range of 0 ≤ device value ≤ 200)	Linked with the device "D100".
Tank status	Indicate the tank status. Normal (device value = 0): Blue lamp ON Error (device value <> 0): Red lamp ON	Linked with the device "D101".

6.3 ASP Sample Programs

This sample program is a program to read programmable controller CPU data and device values using the ActUtlType control.

File structure

- Sample.asp (data input screen)
  The initial display screen used to set data for monitoring.
- SampleControl.asp (data acquisition screen)
  Acquire input data of Sample.asp, store them in global variables, and check them for errors.
- SampleMon.asp (data display screen)
  Display data according to input data of Sample.asp. Display an error description when an error occurs.

How to use the sample program

1. Store Sample.asp, SampleControl.asp, and SampleMon.asp in the same folder on the WWW server.
2. Browse the URL of Sample.asp on the Microsoft Internet Explorer® and display the initial screen.
3. Enter data into "MonitorTiming", "LogicalStationNumber", "DeviceName", and "DeviceSize" on the initial screen.
   Press the [MonitorStart] button to start the Open processing, ReadDeviceBlock processing, GetCpuType processing, and Close processing.
4. The input data for "MonitorTiming:", "LogicalStationNumber:", "DeviceName:", and "DeviceSize:" are displayed on the data display screen.
5. An error occurrence processing is displayed for "Message:" when an error occurs in the process.
6. The result of the process is displayed for "Return Code:".
7. The model of the connected programmable controller CPU is displayed for "CpuType:".
8. The device data of the connected programmable controller CPU is displayed for "ReadData(Hex)".
9. When an error occurs, perform the troubleshooting corresponds to the error code.(☞ Page 552 ERROR CODES)
10. The data display screen repeats updating at the interval set for "MonitorTiming:".
11. Press the [Back] button to return to the initial screen.

Considerations for using the sample program

Before executing the sample program, set the communication settings in Communication Setup Utility.

Sample file list

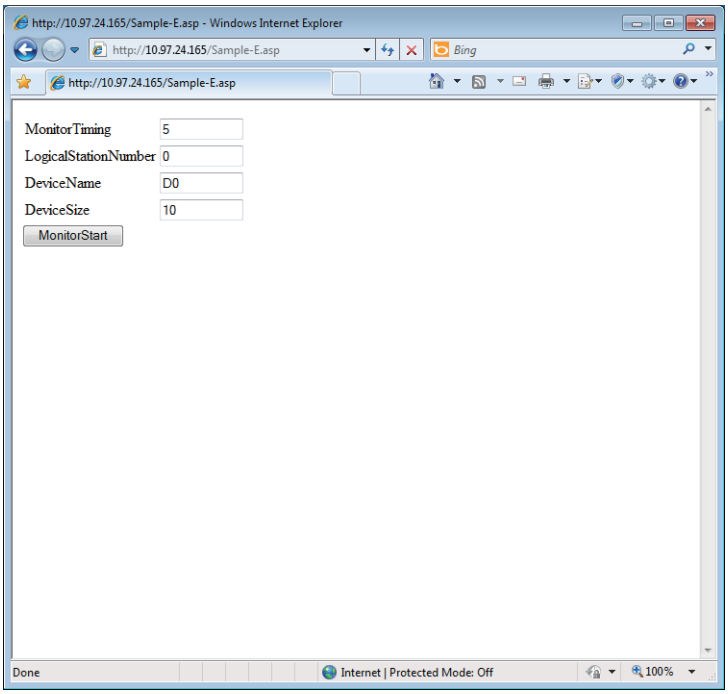
The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [VBScript] - [SampleASP]	Sample.asp
	SampleControl.asp
	SampleMon.asp

Screen

The following explains the settings on the sample program screen.

■Data input screen (Sample-E.asp)

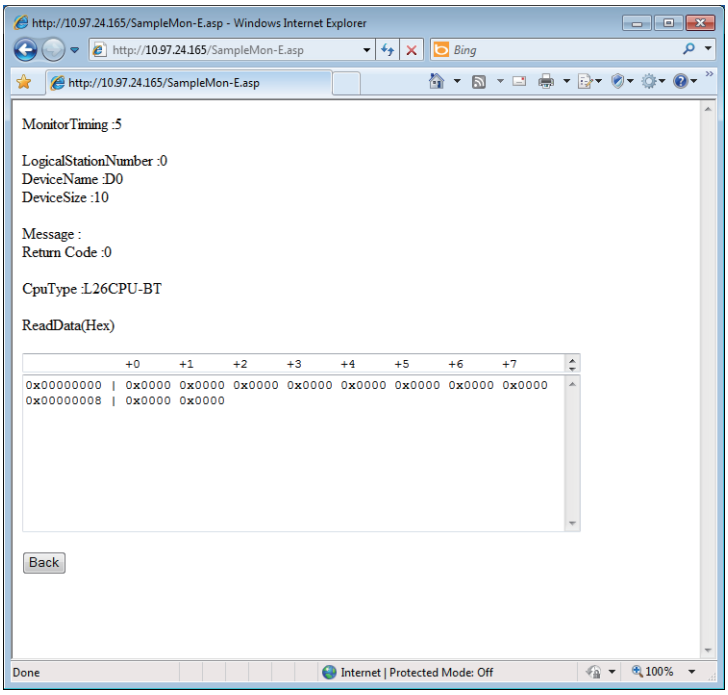


Item	Description
MonitorTiming	Enter the monitoring interval.
LogicalStationNumber	Enter the logical station number.
DeviceName	Enter the device name of the device to be read.
DeviceSize	Enter the number of points of the devices to be read.
[MonitorStart] button	Start the monitor processing.

■Data acquisition screen (SampleControl-E.asp)

The data acquisition screen is a screen used to store the data entered on the data input screen into the global variables and check them for errors. This screen is not displayed on the Internet Explorer screen.

■Data display screen (SampleMon-E.asp)



Item	Description
MonitorTiming:	Display the monitoring interval.
LogicalStationNumber:	Display the logical station number.
DeviceName:	Display the device name of the device to be read.
DeviceSize:	Display the number of points of the devices to be read.
Message:	Display an error description at an error occurrence.
Return Code:	Display the method execution result.
CpuType:	Display the CPU model.
ReadData(Hex)	Display the read device values.
[Back] button	Return to the initial screen.

6.4 Visual Basic .NET Sample Programs

Modem communication sample program

This sample program is a program to monitor devices of a programmable controller CPU corresponds to the specified logical station number using the ActUtlType control.
This program displays the error code and error message on the dialog box using the ActSupportMsg control when an error occurs.
This sample program was created on Visual Basic .NET (Visual Studio 2005).

How to use the sample program

1. Enter the logical station number, which was specified for the modem communication setting in Communication Setup Utility, into the "LogicalStationNumber" text box.
2. If a password is set to the module to be connected, enter the password into the "Password" text box.
3. Enter the monitoring interval into the "MonitorInterval" text box.
4. Enter the device name to be monitored into the "DeviceName" text box, and the number of device points into the "Size" text box.
5. Click the [MonitorStart] button to open the communication line after connecting the telephone line,and read device values at the interval specified using the ReadDeviceBlock function. (For the logical station number that does not require the telephone line connection, the telephone line is not connected and only the Open function is executed on the communication line.)
6. Click the [MonitorStop] button to disconnect the telephone line after closing the communication line.
7. If an error occurs during the process of this sample program, an error code is displayed on the "ReturnValue" text box. If the error code is displayed on the "ReturnValue" text box, click the [GetErrorMessage] button to display the error description and corrective action corresponds to the displayed error code.
   When an error occurs, perform the troubleshooting corresponds to the error code.
   (☞ Page 552 ERROR CODES)

Considerations for using the sample program

- Since the ActUtlType control is used, set the logical station number in Communication Setup Utility before executing the sample program.
- When changing the logical station number, monitoring interval, device name, and number of read points, click the [MonitorStop] button to close the communication line, and click the [MonitorStart] button to resume the communication.

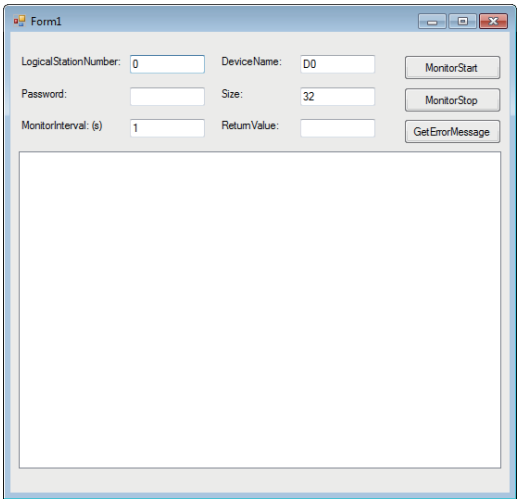
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [ModemSample]	ModemSample.sln

Screen

The following explains the settings on the sample program screen.



Item	Description
LogicalStationNumber	Enter the logical station number set in Communication Setup Utility.
Password	Enter the password when it is required.
MonitorInterval	Set the monitoring interval. (In seconds)
DeviceName	Enter the device name to be monitored.
Size	Enter the number of read points.
ReturnValue	Display the returned value of the executed method.
[MonitorStart] button	Open the communication line and start monitoring after connecting the telephone line.
[MonitorStop] button	Disconnect the telephone line and stop monitoring after closing the communication line.
[GetErrorMessage] button	Acquire and display the error description and corrective action for the error code of "ReturnValue".

Read/Write sample program

This sample program is a program to read/write device values of a programmable controller CPU and monitor device status using any of the ActUtlType control, the DotUtlType control, or the ActProgType control.
This sample program was created on Visual Basic .NET (Visual Studio 2005) or Visual Basic .NET (Visual Studio 2010).
In case of DotUtlType control, replace the terms such as "DeviceName", "DeviceSize" to "LabelName" and "DataSize" in the description.
In addition, replace the terms such as "Device name", "Points" and "DeviceValue" to "LabelName", "DataSize" and "Data value".

How to use the sample program

1. Load the form and select the control to be used.
2. When using the ActUtlType control, enter the logical number, which was specified for the communication setting in Communication Setup Utility, into the "LogicalStationNumber" text box before clicking the [Open] button.
3. Click the [Open] button to open the communication line.
4. For reading devices randomly, enter the device name and the number of points to be read into the "DeviceName" and "DeviceSize" text boxes in the "Random Read/Write" frame, and click the [ReadDeviceRandom2] button to display the device data on the "Data" text box in the "Output" frame.
5. For writing devices randomly, enter the device name and the number of points to be written in the "DeviceName" and "DeviceSize" text boxes in the "Random Read/Write" frame, enter the device value to be written into the "DeviceData" text box inside the same frame, and click the [WriteDeviceRandom2] button to write the device value to the programmable controller CPU.
6. For reading devices in bulk, enter the device name and the number of points to be read into the "DeviceName" and "DeviceSize" text boxes in the "Block Read/Write" frame, and click the [ReadDeviceBlock2] button to display the device data on the "Data" text box in the "Output" frame.
7. For writing devices in bulk, enter the device name and the number of points to be written into the "DeviceName" and "DeviceSize" text boxes in the "Block Read/Write" frame, enter the device value to be written into the "DeviceData" text box in the same frame, and click the [WriteDeviceBlock2] button to write the device value to the programmable controller CPU.
8. For registering devices for status monitoring, enter the device name, number of points, device value and status monitoring interval into the "DeviceName", "DeviceSize", "DeviceData", and "MonitorCycle" text boxes in the "Status Entry/Free" frame as the event occurrence conditions, and click the [EntryDeviceStatus] button.
   When the registered event occurrence conditions are satisfied, the event data are displayed on the "Data" text box in the "Output" frame.
9. For deregistering registered devices for status monitoring, click the [FreeDeviceStatus] button.
10. If an error occurs during the process, an error code is displayed on the "Return Code" box in the "Output" frame.
    When an error occurs, perform the troubleshooting corresponds to the error code.
    (☞ Page 552 ERROR CODES)
11. Click the [Close] button to close the communication line.

Considerations for using the sample program

- When using the ActUtlType control, set the communication settings in Communication Setup Utility before executing the sample program.
- When using the ActProgType control in this sample program, "Q02(H)" is set for the programmable controller CPU, "COM1" is set for the COM port, and 19200bps is set for the transmission speed.
  The specification can be changed by changing values of the corresponding property.
- When changing the control to be used, close the communication line by clicking the [Close] button, change the control, and click the [Open] button to reopen the line.

Sample file list

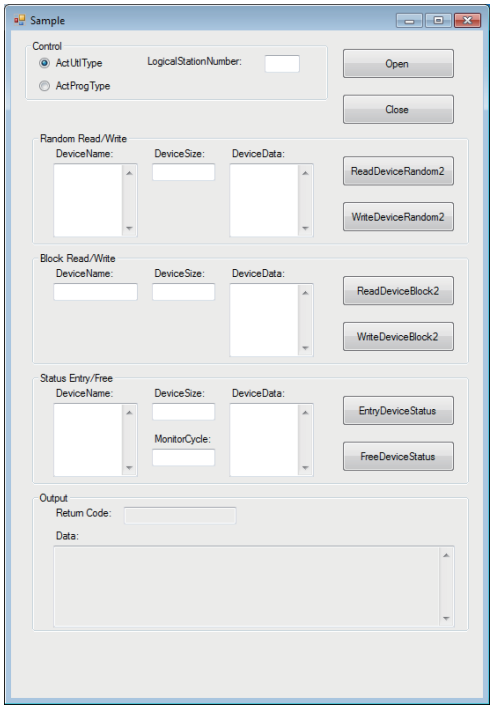
The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [Sample]	Sample.sln
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [Sample_References]	Sample_References.sln
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [SampleDot]	Sample.sln
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [Sample_ReferencesDot]	Sample_References.sln

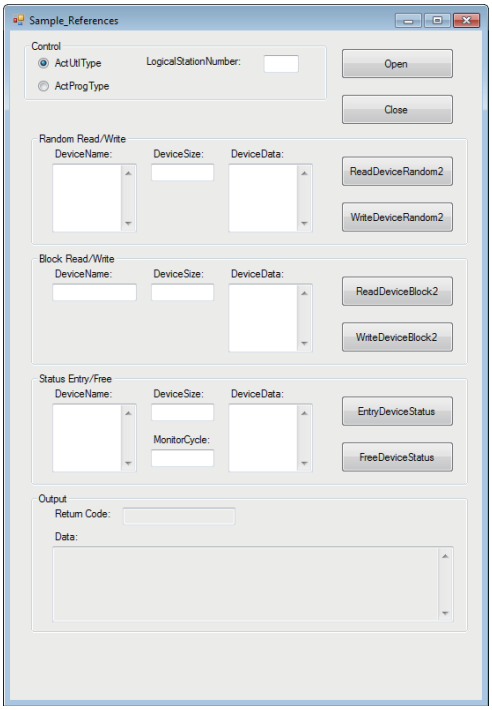
Screen

The following explains the settings on the sample program screen.

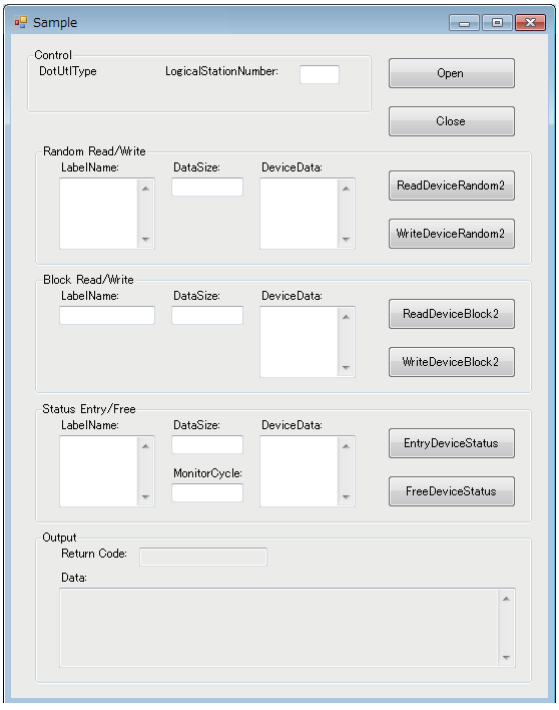
<Sample>



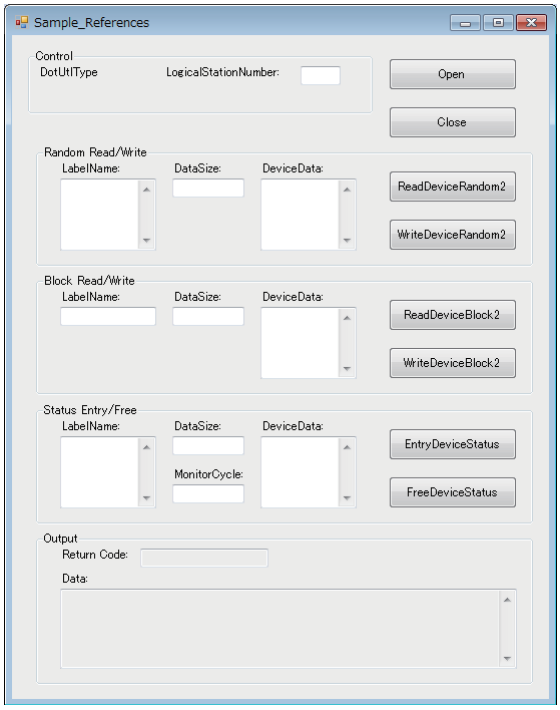
<Sample_References>



<SampleDot>



<Sample_ReferencesDot>



Item		Description
"Control" frame	Any of ActUtlType, ActProgType, or DotUtlType	Select the control to be used.
	LogicalStationNumber	Enter the logical station number which was specified for the communication setting in Communication Setup Utility.
[Open] button		Open the communication line.
[Close] button		Close the communication line.
"Random Read/Write" frame	DeviceName	Enter the device name for reading/writing devices randomly.
	DeviceSize	Enter the number of device points for reading/writing devices randomly.
	DeviceData	Enter the device value for writing devices randomly.
	[ReadDeviceRandom2] button	Read device data randomly from the programmable controller CPU to the data source entered into the "DeviceName" and "DeviceSize" text boxes in the same frame, and display the data on the "Data" text box in the "Output" frame.
	[WriteDeviceRandom2] button	Write device data randomly to the programmable controller CPU from the data source entered into the "DeviceName", "DeviceSize", and "DeviceData" text boxes in the same frame.
"Block Read/Write" frame	DeviceName	Enter the device name for reading/writing devices in bulk.
	DeviceSize	Enter the number of device points for reading/writing devices in bulk.
	DeviceData	Enter the device values for writing devices in bulk.
	[ReadDeviceBlock2] button	Read device data in bulk from the programmable controller CPU to the data source entered into the "DeviceName" and "DeviceSize" text boxes in the same frame, and display the data on the "Data" text box in the Output" frame.
	[WriteDeviceBlock2] button	Write device data in bulk to the programmable controller CPU from the data source entered into the "DeviceName", "DeviceSize", and "DeviceData" text boxes in the same frame.
"Status Entry/Free" frame	DeviceName	Enter the device name as an event occurrence condition.
	DeviceSize	Enter the number of device points as an event occurrence condition.
	MonitorCycle	Enter the event monitoring interval.
	DeviceData	Enter the device value as an event occurrence condition.
	[EntryDeviceStatus] button	Register the on-device status/event to the data source entered into the "DeviceName", "DeviceSize", "MonitorCycle", and "DeviceData" text boxes in the same frame. When the registered event occurrence condition is satisfied, the event data is displayed on the "Data" text box of the "Output" frame.
	[FreeDeviceStatus] button	Delete the registered on-device status/event.
"Output" frame	Return Code	Display the method execution result.
	Data	Display the read device values.

Type conversion sample program

This sample program is a program to read/write ASCII character string, 32-bit integer, or real number data from/to a programmable controller CPU devices in the corresponding data format using the ActUtlType control, and display the error message using the ActSupportMsg control when an error occurs during the process.
This sample program was created on Visual Basic .NET (Visual Studio 2005).

How to use the sample program

1. Load the form, enter the logical number, which was specified for the communication setting in Communication Setup Utility, into the "LogicalStationNumber" text box, and click the [Open] button to open the communication line.
2. For writing ASCII character data to the programmable controller CPU, enter the ASCII character data into the upper text box in the "ASCII character" frame, and click the [Write] button in the same frame.(The data write function is executed within the range of D0 to D9, regardless of the number of entered characters. When the number of characters is insufficient, the blanks are filled with 0 (Hex).)
3. For reading ASCII character data, click the [Read] button in the "ASCII character" frame. Data from the programmable controller CPU is displayed on the lower text box in the same frame. (The data read function is executed within the range of D0 to D9.)
4. For writing 32-bit integer data to the programmable controller CPU, enter the 32-bit integer data into the upper text box in the "32bit integer" frame, and click the [Write] button in the same frame. (The data write function is executed within the range of D10 to D11.)
5. For reading 32-bit integer data, click the [Read] button in the "32bit integer" frame. Data from the programmable controller CPU is displayed on the lower text box in the same frame. (The data read function is executed within the range of D10 to D11.)
6. For writing real number data to the programmable controller CPU, enter the real number data into the upper text box in the "Real number" frame, and click the [Write] button in the same frame. (The data write function is executed within the range of D12 to D13.)
7. For reading real number data, click the [Read] button in the "Real number" frame. Data from the programmable controller CPU is displayed on the lower text box in the same frame. (The data read function is executed within the range of D12 to D13.)
8. When an error occurs, perform the troubleshooting corresponds to the error code.(☞ Page 552 ERROR CODES)
9. Click the [Close] button to close the communication line.

Considerations for using the sample program

- When using the ActUtlType control, set the communication settings in Communication Setup Utility before executing the sample program.
- If an error which does not relate to the ActUtlType control occurs (for example, a character string or out-of-range value is entered for 32-bit integer or real number), the corresponding error message is displayed on the message box, and the program is terminated.

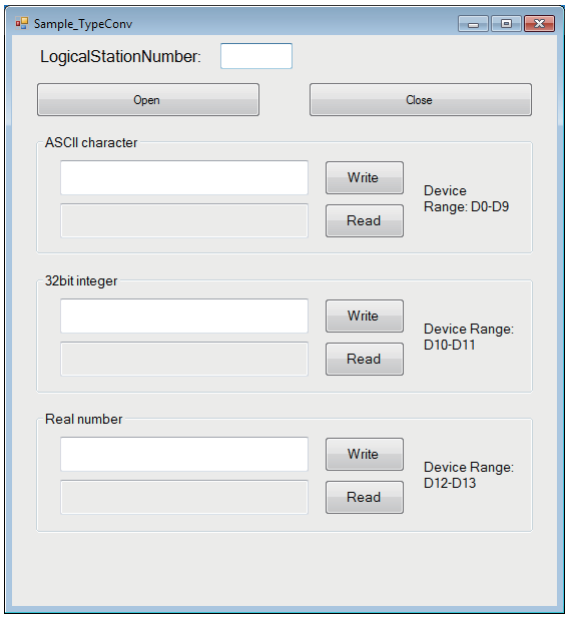
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [Sample_TypeConv]	Sample_TypeConv.sln

Screen

The following explains the settings on the sample program screen.



Item		Description
Logical Station Number		Enter the logical station number which was specified for the communication setting in Communication Setup Utility.
[Open] button		Open the communication line.
[Close] button		Close the communication line.
"ASCII character" frame	[Write] button	Write the ASCII character data, which was entered into the upper text box in the frame, to the programmable controller CPU.
	[Read] button	Display the ASCII character data, which was read from the programmable controller CPU, on the lower text box in the frame.
"32bit integer" frame	[Write] button	Write the 32-bit integer data, which was entered into the upper text box in the frame, to the programmable controller CPU.
	[Read] button	Display the 32-bit integer data, which was read from the programmable controller CPU, on the lower text box in the frame.
"Real number" frame	[Write] button	Write the real number data, which was entered into the upper text box in the frame, to the programmable controller CPU.
	[Read] button	Display the real number data, which was read from the programmable controller CPU, on the lower text box in the frame.

Logging file transfer sample program

This sample program is a program to transfer a logging file using the ActUtlDataLogging control or ActProgDataLogging control.

This sample program was created on Visual Basic .NET (Visual Studio 2010)

How to use the sample program

1. Load the form and select a control to be used.
2. Specify the path of a folder to transfer a logging file for "Folder".
3. Click the [Save to PC] button to save a logging file to the specified folder.

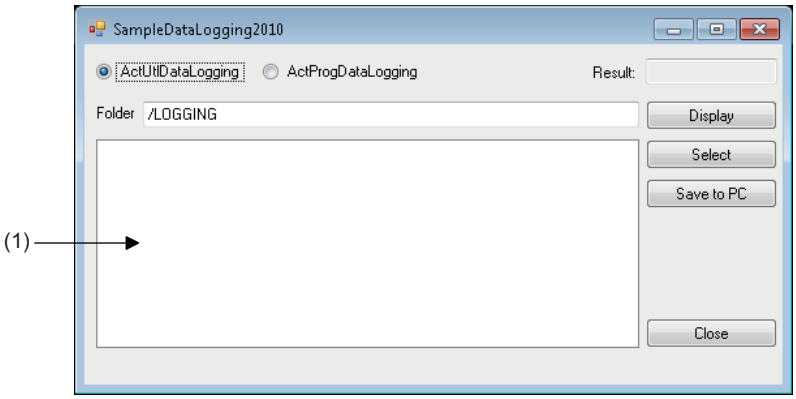
Sample file

The sample programs are installed into the following folders at default installation.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [SampleDataLogging_References2010]	SampleDataLogging_References2010.sln
[User specified folder] - [Act] - [Samples] - [Vb.NET] - [SampleDataLogging2010]	SampleDataLogging2010.sln

Screen

The following explains the settings on the sample program screen.



Item	Description
Controls (ActUtlDataLogging / ActProgDataLogging)	Select a control to be used.
Result	Display an error code.
Folder name	Specify a folder path to transfer a logging file.
[Display] button	Update the content displayed in "File list".
[Select] button	Apply the folder name selected in "File list" to "Folder". When a file name is selected, a logging file is saved in the personal computer.
[Save to PC] button	Display the "Save As" screen. Only a text file (*.txt) can be selected in "Save as type".
[Close] button	Exit the sample program.
(1) File list	Display files or folders in the path specified for "Folder" in a list. For a folder name, a slash '/' is prefixed.

6.5 Visual C++ .NET Sample Programs

Read/Write sample program

This sample program is a program to read/write device values of a programmable controller CPU and monitor device status using any of the ActUtlType control, the DotUtlType control, or the ActProgType control.
This sample program was created on Visual C++ .NET (Visual Studio 2005), Visual C++ .NET (Visual Studio 2010), and Visual C++ .NET (Visual Studio 2017).

How to use the sample program

The operation is the same as that for Visual Basic .NET (Visual Studio 2005).(☞ Page 538 How to use the sample program)

Considerations for using the sample program

- The considerations are the same as those for Visual Basic .NET (Visual Studio 2005).(☞ Page 538 Considerations for using the sample program)
- If a sample program created in Visual Studio 2017 is used, a build error may occur.
  For details, refer to the following section.
  ☞ Page 611 A build error occurred when using a sample program created in Visual Studio 2017

Sample file list

The sample program is installed in the following folder when the default pass is selected.

■For Visual C++ .NET (Visual Studio 2005)

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample2005]	Sample2005.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample_References2005]	Sample_References2005.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [SampleDot2005]	Sample2005.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample_ReferencesDot2005]	Sample_References2005.sln

■For Visual C++ .NET (Visual Studio 2010)

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample2010]	Sample2010.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample_References2010]	Sample_References2010.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [SampleDot2010]	Sample2010.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample_ReferencesDot2010]	Sample_References2010.sln

■For Visual C++ .NET (Visual Studio 2017)

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample2017]	Sample2017.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample_References2017]	Sample_References2017.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [SampleDot2017]	Sample2017.sln
[User specified folder] - [Act] - [Samples] - [Vc.NET] - [Sample_ReferencesDot2017]	Sample_References2017.sln

Screen

The settings on the screen are the same as those for Visual Basic .NET (Visual Studio 2005).(☞ Page 539 Screen)

Troubleshooting function sample program

This sample program is a program to perform the troubleshooting function using the DotSupportMsg control.

How to use the sample program

1. Load the form.
2. Enter the error code into the "ErrorCode" text box to display the error description.
3. Click the [GetErrorMessage] button to display the error description and corrective action on the text box for displaying the error description. Displayed error descriptions and corrective actions are the same as the descriptions on ☞ Page 552 Error Codes Returned by Controls.
4. Click the [Exit] button to exit the sample program.

Considerations for using the sample program

- For error codes to be entered into the "ErrorCode" text box, enter the error code described on ☞ Page 552 Error Codes Returned by Controls (0x********), or enter it in decimal number.
- If a sample program created in Visual Studio 2017 is used, a build error may occur.
  For details, refer to the following section.
  ☞ Page 611 A build error occurred when using a sample program created in Visual Studio 2017

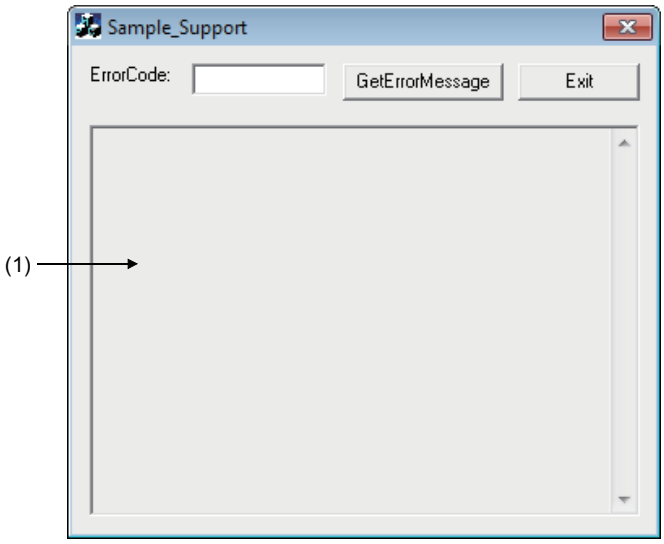
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc.Net] - [Sample_Support]	Sample_Support.sln

Screen

The following explains the settings on the sample program screen.



Item	Description
Error Code	Enter the error code.
[GetErrorMessage] button	Read the error description and corrective action of the error code entered into the "ErrorCode" text box.
[Exit] button	Exit the sample program.
(1) (Error definition displaying text box)	Display the error description and corrective action of the error code entered into the "ErrorCode" text box.

6.6 Visual C# .NET Sample Programs

Read/Write sample program

This sample program is a program to read/write device values of a programmable controller CPU and monitor device status using any of the ActUtlType control, the DotUtlType control, or the ActProgType control.
This sample program was created on Visual C# .NET (Visual Studio 2005).

How to use the sample program

The operation is the same as that for Visual Basic .NET (Visual Studio 2005). (☞ Page 538 How to use the sample program)

Considerations for using the sample program

The considerations are the same as those for Visual Basic .NET (Visual Studio 2005). (☞ Page 538 Considerations for using the sample program)

Sample file list

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vcs.NET] - [Sample]	Sample.sln
[User specified folder] - [Act] - [Samples] - [Vcs.NET] - [Sample_References]	Sample_References.sln
[User specified folder] - [Act] - [Samples] - [Vcs.NET] - [SampleDot]	Sample.sln
[User specified folder] - [Act] - [Samples] - [Vcs.NET] - [Sample_ReferencesDot]	Sample_References.sln

Screen

The settings on the screen are the same as those for Visual Basic .NET (Visual Studio 2005). (☞ Page 539 Screen)

Logging file transfer sample program

This sample program is a program to transfer a logging file using the ActUtlDataLogging control or ActProgDataLogging control.
This sample program was created on Visual C# .NET (Visual Studio 2010).

How to use the sample program

The operation is the same as that for Visual Basic .NET(Visual Studio 2010). (☞ Page 543 How to use the sample program)

Sample file list

The sample programs are installed into the following folders at default installation.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vcs.NET] - [SampleDataLogging_References2010]	SampleDataLogging_References2010.sln
[User specified folder] - [Act] - [Samples] - [Vcs.NET] - [SampleDataLogging2010]	SampleDataLogging2010.sln

Screen

The screen is the same as that for Visual Basic .NET(Visual Studio 2010). (☞ Page 543 Screen)

6.7 Visual C++ .NET (MFC) Sample Programs

Dispatch interface

This sample program is a program to read a model of connected CPU and read/write device values using the ActUtlType control or the ActProgType control with the dispatch interface.

How to use the sample program

1. Load the form and select the control to be used.
2. Click the [Open Communication] button to open the communication line through Ethernet communication.
3. Click the [GetCpuType] button to display the model code and the CPU model of the currently connected programmable controller CPU on the upper text box and the lower text box of "Output Data" respectively.
4. Enter the device to be read into the "Device Name" text box, and click the [GetDevice] button to display the device data on the upper text box of "Output Data".
5. Enter the device to be written into the "Device Name" text box, enter the device value to be written into the "Device Value" text box, and click the [SetDevice] button to write the device value.
6. Click the [Close Communication] button to close the communication line.
7. If an error occurs during the process, an error code is displayed on the "Return Value" text box.
   When an error occurs, perform the troubleshooting corresponds to the error code. (☞ Page 552 ERROR CODES)

Considerations for using the sample program

- When using the ActUtlType control, set the logical station number "1" for the Ethernet communication information in Communication Setup Utility before executing the sample program.
- When changing the control to be used, close the communication line by clicking the [Close Communication] button, change the control, and reopen the line.
- If a sample program created in Visual Studio 2017 is used, a build error may occur.
  For details, refer to the following section.
  ☞ Page 611 A build error occurred when using a sample program created in Visual Studio 2017

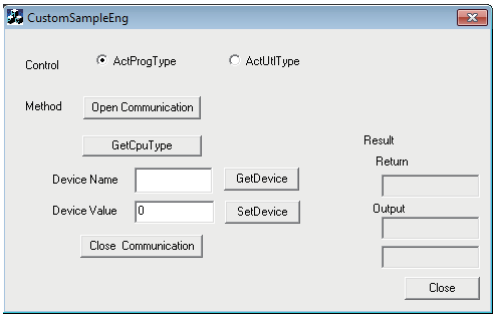
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc] - [SampleENG]	sample.sln

Screen

The following explains the settings on the sample program screen.



Item		Description
Control		Select the control to be used.
[Open Communication] button		Open the communication line.
[GetCpuType] button		Read the programmable controller CPU model.
Device Name		Enter the device to be read/written.
Device Value		Enter the device value to be written.
[Close Communication] button		Close the communication line.
[GetDevice] button		Read the data of the device entered into the "Device Name" text box.
[SetDevice] button		Write the data of the device entered into the "Device Name" text box.
Return Value		Display the function execution result.
Output Data	Upper	Display the CPU model code or the read device value.
	Lower	Display the CPU model.

Custom interface

This sample program is a program to read a model of connected CPU and read/write device values using the ActUtlType control or ActProgType control with the custom interface.

How to use the sample program

The operation is the same as that for the dispatch interface. (☞ Page 547 How to use the sample program)

Considerations for using the sample program

- When using the ActUtlType control, set the logical station number "2" for the Ethernet communication information in Communication Setup Utility before executing the sample program.
- When changing the control to be used, close the communication line by clicking the [Close Communication] button, change the control, and reopen the line.
- If a sample program created in Visual Studio 2017 is used, a build error may occur.
  For details, refer to the following section.
  ☞ Page 611 A build error occurred when using a sample program created in Visual Studio 2017

Sample file

The sample programs are installed into the following folders at default installation.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc] - [CustomSampleENG]	CustomSample.sln

Screen

The settings on the screen are the same as those for the dispatch interface. (☞ Page 548 Screen)

Troubleshooting function sample program

This sample program is a program to perform the troubleshooting function using the ActSupportMsg control.

How to use the sample program

1. Load the form.
2. Enter the error code into the "ErrorCode" text box to display the error description.
3. Click the [GetErrorMessage] button to display the error description and corrective action on the text box for displaying the error description.
   Displayed error descriptions and corrective actions are the same as the descriptions on ☞ Page 552 Error Codes Returned by Controls.
4. Click the [Exit] button to exit the sample program.

Considerations for using the sample program

- For error codes to be entered into the "ErrorCode" text box, enter the error code described on ☞ Page 552 Error Codes Returned by Controls (0x********), or enter it in decimal number.
- If a sample program created in Visual Studio 2017 is used, a build error may occur.
  For details, refer to the following section.
  ☞ Page 611 A build error occurred when using a sample program created in Visual Studio 2017

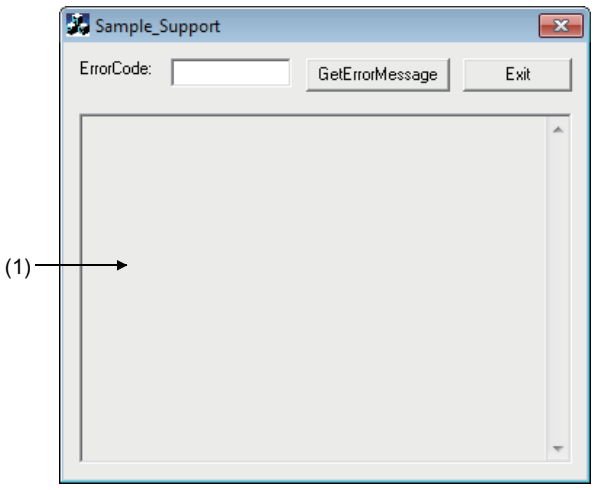
Sample file

The sample program is installed in the following folder when the default pass is selected.

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc] - [Sample_SupportENG]	Sample_Support.sln

Screen

The following explains the settings on the sample program screen.



Item	Description
ErrorCode	Enter the error code.
[GetErrorMessage] button	Read the error description and corrective action of the error code entered into the "ErrorCode" text box.
[Exit] button	Exit the sample program.
(1) (Error definition displaying text box)	Display the error description and corrective action of the error code entered into the "ErrorCode" text box.

Logging file transfer sample program

This sample program is a program to transfer a logging file using the ActUtlDataLogging control or ActProgDataLogging control.

This sample program was created on Visual C++ .NET (Visual Studio 2010) or Visual C++ .NET (Visual Studio 2017).

How to use the sample program

The operation is the same as that for Visual Basic .NET(Visual Studio 2010).(☞ Page 543 How to use the sample program)

Sample file list

The sample programs are installed into the following folders at default installation.

■For Visual C++ .NET (Visual Studio 2010)

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc] - [CustomSampleDataLogging2010]	CustomSampleDataLogging2010.sln
[User specified folder] - [Act] - [Samples] - [Vc] - [SampleDataLogging2010]	SampleDataLogging2010.sln

■For Visual C++ .NET (Visual Studio 2017)

Folder name	File name
[User specified folder] - [Act] - [Samples] - [Vc] - [CustomSampleDataLogging2017]	CustomSampleDataLogging2017.sln
[User specified folder] - [Act] - [Samples] - [Vc] - [SampleDataLogging2017]	SampleDataLogging2017.sln

Screen

The screen is the same as that for Visual Basic .NET(Visual Studio 2010).

(☞ Page 543 Screen)

7 ERROR CODES

This chapter explains the error codes returned by controls and the error codes returned by CPUs, modules, and network boards.

7.1 Error Codes Returned by Controls

The following table shows the error codes returned by controls.

Error code	Error description	Corrective action
0x00000000	Normal end	-
100	Number of ENQ retries is exceeded.	• Take measures against noise
101		
102	Number of NACK retries is exceeded.	
103	The message is too long.	
104	Reception time-out	• Check the cable connection.
105	DSR signal was not detected.	
106	The line was disconnected.	• Check the cable connection. • Open again.
107	Transmission time-out	• Check the cable connection.
108	Sequence number is incorrect.	• Take measures against noise
200	Included DLL was not found.	• Reinstall MX Component.
0x01010002	Time-out error	• Check the property timeout value. • Check the settings in the communication settings utility. • Check the programmable controller, unit settings, state of the cable, etc. • Close and Open again. • Exit the program and restart the personal computer.
0x01010005	Message error	• Check the system noise. • Check the property timeout value. • Check the settings in the communication settings utility. • Check the programmable controller, unit settings, status of the cable, etc. • Close and Open again. • Exit the program and restart the personal computer.
0x01010010	Programmable controller No. error Communication could not be made with the specified station number.	• Check the station number set on the communication setup utility. • Check the station number set to ActStationNumber.
0x01010011	Mode error Command not supported.	• Check if the correct CPU type setting is done. • Check the programmable controller, unit settings, status of the cable, etc. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01010012	Special Unit Specification error	• Check the specified address of the special unit.
0x01010013	Other data error Communication cannot be made for some cause.	• Check that the system configuration is not an unsupported configuration. • Check that the CPU type setting is correct. • Exit the program and restart the personal computer.
0x01010018	Remote request error Remote operation is being performed in the path different from the communicating path.	• Cancel the remote operation being performed in the other path.
0x01010020	Link error Link communications could not be made.	• Check that reset operation is not performed for the other end of communication, the control station (master station) or the station passed through by routing. • Check that the network parameter setting is correct.
0x01010021	Special Unit Bus error There is no response from the special unit under consideration.	• Repair or exchange the special unit under consideration. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01800001	No command error The method does not support.	• The corresponding method does not support.
0x01800002	Memory lock error	• Exit the program and restart the personal computer. • When using an interface board for personal computer, increase the minimum working set size of the personal computer.*1

Error code	Error description	Corrective action
0x01800003	Memory securing error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area. • When using an interface board for personal computer, increase the minimum working set size of the personal computer.*1
0x01800004	DLL load error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area. • Reinstall MX Component.
0x01800005	Resource securing error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area.
0x01801001	Resource Timeout error The resource could not be retrieved within the specified time.	• Execute again after the other object completes the communication. • Execute again after increasing the timeout value. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01801002	Multi-line open error	• Exit the program and restart the personal computer.
0x01801003	Open not yet executed	
0x01801004	Open Type error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01801005	Specified port error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01801006	Specified module error	• Check that the actual system configuration matches to the settings in the communication settings utility or the values of the properties. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01801007	Specified CPU error	• Check the CPU type set to ActCpuType. • Check that the system configuration is not an unsupported configuration. • Exit the program and restart the personal computer. • Reinstall MX Component. • Check the packet type set to ActPacketType.
0x01801008	Target station access error	• Review the target station.
0x01801009	Registry open failure Failed while opening data key of the registry.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180100A	Packet Type error The packet type specified is incorrect.	• Recheck the ActPacketType. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180100B	Protocol Type error The protocol specified is incorrect.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180100C	Registry search failure	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180100D	GetProcAddress failure	
0x0180100E	DLL non-load error	
0x0180100F	Another Object in execution Method cannot be executed because of exclusive control in progress.	• Execute again after some time
0x01802001	Device error The device character string specified in the method is an unauthorized device character string.	• Review the device name.
0x01802002	Device number error The device character string number specified in the method is an unauthorized device number.	• Review the device number.
0x01802003	Program Type error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01802004	Sumcheck error The sumcheck value of the received data is abnormal.	• Check the module side sumcheck setting. • Check the sumcheck property of the control. • Check the cable. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01802005	Size error The number of points specified in the method is unauthorized.	• Check the number of points specified in the method. • Review the system, e.g. programmable controller CPU, module setting and cable status. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01802006	Block number error The block specifying number in the device character string specified in the method is unauthorized.	• Review the block specifying number in the device character string specified in the method.

Error code	Error description	Corrective action
0x01802007	Receive data error The data received is abnormal.	• Review the system, e.g. programmable controller CPU, module setting and cable status. • Check the cable. • Exit the program and restart the personal computer.
0x01802008	Write Protect error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01802009	Reading Parameters error	
0x0180200A	Writing Parameters error	
0x0180200B	Programmable controller type mismatch The CPU type set to the property and the CPU type set on the communication settings utility do not match the CPU type on the other end of communication.	• Set the correct CPU type as the CPU type of the property. • Set the correct CPU type on the communication settings utility. • Review the system, e.g. programmable controller CPU, module setting and cable status.
0x0180200C	Request Cancel error The request was cancelled while being processed.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180200D	Drive Name error The specified drive name is incorrect.	
0x0180200E	Beginning Step error The beginning step specified is incorrect.	
0x0180200F	Parameter Type error The parameter type is incorrect.	
0x01802010	File Name error The file name is incorrect.	
0x01802011	Status error The status of Registration/Cancellation/Setting is incorrect.	
0x01802012	Detailed Condition Field error	
0x01802013	Step Condition error	
0x01802014	Bit Device Condition error	
0x01802015	Parameter Settings error	
0x01802016	Error in specifying station number Method does not support the operations corresponding to the specified station number.	• Check the station number. • Check if the method being executed is supported or not. • Check the system configuration such as programmable controller, unit, etc.
0x01802017	Keyword error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01802018	Read/Write Flag error	
0x01802019	Refresh Method error	
0x0180201A	Buffer Access Method error	
0x0180201B	Start Mode/Stop Mode error	
0x0180201C	Written clock data error Clock data specified for write cannot be written properly since that data is in error.	• Review the clock data to be written.
0x0180201D	Online clock data write error Write of clock data failed. Clock data cannot be written since the programmable controller CPU is during RUN.	• Place the programmable controller CPU in the STOP status
0x0180201E	ROM drive error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180201F	While Tracing error Invalid operation was carried out during trace.	
0x01802020	First I/O number error The first I/O number specified in the method is an unauthorized value.	• Check the value of the first I/O number specified in the method. • Using the GPP function, check the programmable controller CPU parameters (I/O assignment). • Exit the program and restart the personal computer.
0x01802021	First address error The buffer address specified in the method is an unauthorized value.	• Check the value of the buffer address specified in the method. • Exit the program and restart the personal computer.

Error code	Error description	Corrective action
0x01802022	Pattern error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01802023	SFC Block No. error	
0x01802024	SFC Step No. error	
0x01802025	Step No. error	
0x01802026	Data error	
0x01802027	System Data error	
0x01802028	Error in number of TC settings Value	
0x01802029	Clear Mode error	
0x0180202A	Signal Flow error	
0x0180202B	Version Control error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180202C	Monitor Not Registered error	
0x0180202D	PI Type error	
0x0180202E	PI No error	
0x0180202F	Error in Number of PIs	
0x01802030	Shift error	
0x01802031	File Type error	
0x01802032	Specified Unit error	
0x01802033	Error check flag error	
0x01802034	Step RUN operation error	
0x01802035	Step RUN data error	
0x01802036	During Step RUN error	
0x01802037	Write error while running program corresponding to E2PROM	
0x01802038	Clock data read/write error The clock data read/write method was executed for the programmable controller CPU which does not have the clock devices.	• Do not execute clock data read/write.

Error code	Error description	Corrective action
0x01802039	Trace not completed error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0180203A	Registration Clear Flag error	
0x0180203B	Operation error	
0x0180203C	Error in the number of exchanges	
0x0180203D	Error in number of loops specified	
0x0180203E	Retrieve data selection	
0x0180203F	Error in number of SFC cycles	
0x01802040	Motion PLC Error	
0x01802041	Motion PLC Communication error	
0x01802042	Fixed execution time setting error	
0x01802043	Error in number of functions	
0x01802044	System information specification error	
0x01802045	Registration Condition Not Formed error	
0x01802046	Function No. error	
0x01802047	RAM drive error	
0x01802048	ROM drive error at the booting side	
0x01802049	Transfer mode specification error at the booting side	
0x0180204A	Insufficient memory error	
0x0180204B	Back up drive ROM error	
0x0180204C	Block size error	
0x0180204D	Detached during RUN state error	
0x0180204E	Unit Already Registered error	
0x0180204F	Password Registration Data Full error	
0x01802050	Password Not Registered error	
0x01802051	Remote Password error	
0x01802052	IP Address error	
0x01802053	Timeout value out of range error	
0x01802054	Command not detected error	
0x01802055	Trace execution type error	
0x01802056	Version error	
0x01802057	Tracking cable error The tracking cable is faulty. The programmable controller CPU status is error.	• Reexamine the system such as the programmable controller CPU, module setting and cable status.
0x0180205C	Keyword protection error Programmable controller CPU is protected by the key word.	• Disable the keyword and execute again.
0x0180205D	Keyword disable error The inputted keyword is wrong.	• Input a correct keyword.
0x0180205E	Keyword protecting error Programmable controller CPU did not accept the protecting command.	• Execute again or re-switch the power of the programmable controller.
0x0180205F	Keyword entry error An illegal character is included in the inputted keyword.	• Input a correct keyword.
0x01802060	Keyword deletion error The inputted keyword is wrong.	
0x01802062	Received packet CRC check error An error occurred in CRC check for receive packet data.	• Execute the communication process again.
0x01802063	Received packet CRC check error An error occurred in CRC check for whole data file of receive packet.	
0x01802064	FX Series programmable controller connection error	• Execute the communication process again.
0x01802070	Online change program error No target program for online change exists in the programmable controller CPU.	• Execute the online change after turning the programmable controller CPU to STOP.

Error code	Error description	Corrective action
0x01802071	Ether direct communication multiple response receive error Multiple responses were received during Ether direct communication.	• Check that the personal computer and the programmable controller CPU are in a one-to-on connection.
0x01802072	Ether direct communication error Cannot communicate because the programmable controller CPU is being accessed by another personal computer during Ether direct communication.	
0x01802073	Programmable controller CPU search response error The number of responses in the programmable controller CPU search exceeded the maximum number to be searched.	• Reduce the number of programmable controllers on the network to 1024 or less.
0x01802074	Redundant system other system connection diagnostics error	• Disconnect the cable and connect it to the currently disconnected programmable controller CPU. • Or, change the redundant CPU specification to the self system.
0x01808001	Multiple Open error Open method was executed while it was open.	• Exit the program and restart the personal computer. • Execute any method other than Open.
0x01808002	Channel number specifying error The port number set to the property and the port number set on the communication settings utility are unauthorized values.	• Set the correct value to the port number of the property. • Make communication settings again on the communication settings utility.
0x01808003	Driver not yet started The network board driver is not started.	• Start the driver.
0x01808004	Error in overlap event generation	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808005	MUTEX generation error Creation of MUTEX to exercise exclusive control failed.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808006	Error in socket object generation Socket object could not be created	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808007	Socket object generation error Creation of the Socket object failed.	• Check for a running application which uses the same port number. • Retry after changing the port number value of the property. • Retry after changing the port number value on the communication settings utility. • Make Ethernet board and protocol settings on the control panel of the OS. • Right-click and select "Run as administrator" when starting the application. • Exit the program and restart the personal computer.
0x01808008	Port connection error Establishment of connection failed. The other end does not respond.	• Review the IP address and port number values of the properties. • Review the port number value on the communication settings utility. • Review the system, e.g. programmable controller CPU, module setting and cable status. • Exit the program and restart the personal computer.
0x01808009	COM port handle error The handle of the COM port cannot be acquired. The COM port object cannot be copied. The SOCKET object cannot be copied.	• Check for an application which uses the COM port. • Exit the program and restart the personal computer.
0x0180800A	Buffer size setting error Setting of the COM port buffer size failed.	• Check for an application which uses the COM port. • Make COM port setting on the control panel of the OS. • Exit the program and restart the personal computer.
0x0180800B	DCB value acquisition error Acquisition of the COM port DCB value failed.	
0x0180800C	DCB setting error Setting of the COM port DCB value failed.	
0x0180800D	Time-out value setting error Setting of the COM port time-out value failed.	• Review the time-out value of the property. • Review the time-out value on the communication settings utility. • Check for an application which uses the COM port. • Make COM port setting on the control panel of the OS. • Exit the program and restart the personal computer.
0x0180800E	Shared memory open error Open processing of shared memory failed.	• Check whether the GX Simulator has started. • Exit the program and restart the personal computer.
0x01808101	Duplex close error	• Exit the program and restart the personal computer.
0x01808102	Handle close error Closing of the COM port handle failed.	
0x01808103	Driver close error Closing of the driver handle failed.	

Error code	Error description	Corrective action
0x01808104	Overlap Event Close error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808105	Mutex Handle Close error	
0x01808106	COM Port Handle Close error	
0x01808201	Send error Data send failed.	• Review the system, e.g. programmable controller CPU, module setting and cable status. • Make COM port setting on the control panel of the OS. • Make Ethernet board and protocol settings on the control panel. • Retry the method. • Exit the program and restart the personal computer.
0x01808202	Send data size error Data send failed.	• Exit the program and restart the personal computer.
0x01808203	Queue clear error Clearing of the COM port queue failed.	• Exit the program and restart the personal computer. • Perform Close once and execute Open again.
0x01808301	Receive error Data receive failed.	• Review the system, e.g. programmable controller CPU, module setting and cable status. • Review the time-out value of the property. • Review the time-out value on the communication settings utility. • Retry the method. • Exit the program and restart the personal computer.
0x01808302	Not Sent error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808303	Error in retrieving Overlap Event	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808304	Receive buffer size shortage Receive data was larger than the receive buffer size prepared for the system.	• Exit the program and restart the personal computer.
0x01808401	Control error Changing of the COM port communication control failed.	
0x01808402	Signal Line Control error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808403	Signal line specifying error Changing of the COM port communication control failed.	• Exit the program and restart the personal computer.
0x01808404	Open not yet executed	• Execute Open. • Exit the program and restart the personal computer.
0x01808405	Communication parameter error The data bit and stop bit combination of the properties is unauthorized.	• Review the data bit and stop bit values of the properties. • Set it again on the communication settings utility.
0x01808406	Transmission speed value specifying error The transmission speed of the property is unauthorized.	• Review the transmission speed value of the property. • Set it again on the communication settings utility.
0x01808407	Data length error The data bit value of the property is unauthorized.	• Review the data bit value of the property. • Set it again on the communication settings utility.
0x01808408	Parity specifying error The parity value of the property is unauthorized.	• Review the parity value of the property. • Set it again on the communication settings utility.
0x01808409	Stop bit specifying error The stop bit value of the property is unauthorized.	• Review the stop bit value of the property. • Set it again on the communication settings utility.
0x0180840A	Communication control setting error The control value of the property is unauthorized.	• Review the control value of the property. • Set it again on the communication settings utility.
0x0180840B	Time-out error Though the time-out period had elapsed, data could not be received.	• Review the time-out value of the property. • Set it again on the communication settings utility. • Review the system, e.g. programmable controller CPU, module setting and cable status. • Check if communication can be established with the Ping command. • Retry the method. • Perform Close once and execute Open again. • Exit the program and restart the personal computer.
0x0180840C	Connect error	• Exit the program and restart the personal computer.
0x0180840D	Duplex connect error	
0x0180840E	Attach failure Attaching of the socket object failed.	
0x0180840F	Signal line status acquisition failure Acquisition of the COM port signal line status failed.	

Error code	Error description	Corrective action
0x01808410	CD signal line OFF The CD signal on the other end of communication is in the OFF status.	• Review the system, e.g. programmable controller CPU, module setting and cable status. • Exit the program and restart the personal computer.
0x01808411	Password mismatch error	• Check the remote password of the property.
0x01808412	TEL Communication error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808501	USB driver load error Loading of the USB driver failed.	• Exit the program and restart the personal computer. • Reinstall MX Component. • Check USB driver installation.
0x01808502	USB driver connect error Connection of the USB driver failed.	
0x01808503	USB driver send error Data send failed.	• Review the system, e.g. programmable controller CPU, module setting and cable status. • Make USB setting on the control panel (device manger) of the OS. • Retry the method. • Exit the program and restart the personal computer.
0x01808504	USB driver receive error Data receive failed.	
0x01808505	USB Driver Timeout error	• Recheck the timeout value. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01808506	USB driver initialization error Initialization of the USB driver failed.	• Make USB setting on the control panel (device manger) of the OS. • Exit the program and restart the personal computer.
0x01808507	Other USB error Error related to data send/receive occurred.	• Disconnect the cable once, then reconnect. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x01809000	GX Works2 uninstallation error The error occurred by retrieving the installation passing of GX Simulator2.	• Install GX Works2.
0x01809001	GX Simulator2 unstart error GX Simulator2 did not start.	• Start GX Simulator2.
0x01809002	GX Simulator2 start error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01809003	GX Simulator2 start time-out error	
0x01809004	GX Simulator2 stop error	
0x01809005	GX Simulator2 start error	
0x01809007	GX Simulator2 stop error	
0x01809008	GX Simulator2 start error Because it had reached upper bounds of the number of simulations that was able to be started at the same time, it was not possible to start.	
0x01809009	GX Simulator2 start error The simulation of only one project that can be started has started.	
0x01809010	GX Simulator2 start information illegal error The error occurred because it was not able to secure the memory area to allocate GX Simulator2 start information.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x01809021	GX Simulator2 start error Because it had reached upper bounds of the number of simulations that was able to be started at the same time, it was not possible to start.	
0x01809022	GX Simulator2 start error The simulation of other CPU was not able to begin because the simulation of the project of FXCPU had already been begun.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x02000001	Points Exceeded error The number of points registered in the monitoring server is very high.	• Reduce the no. of points registered by the monitor. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x02000002	Shared memory creation error Failed in creating shared memory.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x02000003	Shared memory access error	
0x02000004	Memory Secure error Failed in securing memory for the monitoring server.	• Close the other applications. • Increase the system memory. • Exit the program and restart the personal computer. • Reinstall MX Component.

Error code	Error description	Corrective action
0x02000005	Device Not Registered error Monitor has not been registered.	• Register the monitor in the monitoring server. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x02000006	Monitoring Server Startup error Monitoring Server is not started.	• Start the Monitoring Server. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x02000010	Yet to retrieve Device Value error Monitoring is not yet completed.	• Try to retrieve the value again after waiting for a fixed amount of time. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x03000001	Command not Supported. Command is not supported.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x03000002	Memory Lock error Failed while locking memory.	
0x03000003	Error Securing Memory Failed in securing the memory.	
0x03000004	DLL read error Failed in reading DLL.	
0x03000005	Error in securing Resources. Failed in securing the resources.	
0x03010001	File Creation error Failed in creating the file.	• Check if there is enough space on the hard disk. • Exit the program and restart the personal computer. • Reinstall MX Component
0x03010002	File Open error Failed to open the file.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x03010003	Buffer Size error The buffer size specified is either incorrect or not enough.	
0x03010004	SIL Sentence formation error SIL sentence formation is incorrect.	
0x03010005	Filename error The specified filename is too long.	• Specify a shorter filename. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x03010006	File does not exist error The specified file does not exist.	• Check the file name. • Check if the file exists or not. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x03010007	File Structure error The data structure in the specified file is incorrect.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x03010008	File already exists error The specified file already exists.	• Check the file name. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x03010009	File does not exist error The specified file does not exist.	
0x0301000A	File Deletion error The specified file could not be deleted.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0301000B	Multiple Open error The specified project has been opened twice.	
0x0301000C	Filename error The specified filename is incorrect.	• Check the file name. • Exit the program and restart the personal computer. • Reinstall MX Component.

Error code	Error description	Corrective action
0x0301000D	File Read error Failed in reading the file.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0301000E	File Write error Failed in writing the file.	
0x0301000F	File Seek error File seek failed.	
0x03010010	File Close error Failed while closing the file.	
0x03010011	Folder Creation error Failed while creating the folder.	
0x03010012	File Copy error Failed while copying the file.	
0x03010013	Project Path error The length of the project path is incorrect.	
0x03010014	Project Type error The project type is incorrect.	
0x03010015	File Type error The file type is incorrect.	
0x03010016	Sub-File Type error The sub-file type is incorrect.	
0x03010017	Insufficient Disk space error The disk space is insufficient.	
0x03020002	Multiple Open error Tried to open DBProduct more than once.	
0x03020003	Not yet open error DBProduct is not opened.	
0x03020004	Extract error DBProduct is not extracted.	
0x03020010	Parameter error The parameters of DBProduct are incorrect.	
0x03020011	Language error The language parameter is incorrect.	
0x03020012	Error in specifying Maker The maker parameter is incorrect.	
0x03020013	Error in specifying Unit The unit parameter is incorrect.	
0x03020014	SQL Parameter error SIL, SQL Parameter of DBProduct is incorrect.	
0x03020015	SIL Sentence formation error SIL sentence formation is incorrect.	
0x03020016	Field Key Input Error The entered field key is incorrect.	
0x03020050	Record Data Construction error. Failed in reconstructing the record data of DBProduct.	
0x03020060	Error Retrieving Record Data Failed while retrieving DBProduct record data.	
0x03020061	Last Record error Cannot retrieve the next record since the current record is the last record.	
0x03FF0000	Initialization error	

Error code	Error description	Corrective action
0x03FF0001	Not Initialized error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x03FF0002	Multiple Initialization error	
0x03FF0003	Workspace Initialization error	
0x03FF0004	Database Initialization error	
0x03FF0005	Recordset Initialization error	
0x03FF0006	Error Closing Database	
0x03FF0007	Error Closing Recordset	
0x03FF0008	Database Not Opened error Database is not opened.	
0x03FF0009	Recordset Not Opened error Recordset is not opened.	
0x03FF000A	Table Initialization error Failed in initializing TtableInformation table.	
0x03FF000B	Table Initialization error Failed in initializing TfieldInformation table.	
0x03FF000C	Table Initialization error Failed in initializing TfieldInformation table.	
0x03FF000D	Table Initialization error Failed in initializing Tlanguage table.	
0x03FF000E	Table Initialization error Failed in initializing Tmaker table.	
0x03FF000F	Table Initialization error Failed in initializing TOpenDatabase table.	
0x03FF0010	Field Value error	
0x03FF0011	Field Value error	
0x03FF0012	Exit error Failed to exit the database.	
0x03FF0100	Moving Record error Failed while moving the record.	
0x03FF0101	Retrieving Record Count error Failed to retrieve the record count.	
0x03FF0110	Retrieving Field Value error Failed in retrieving the field value.	
0x03FF0111	Setting Field Value error Failed in setting the field value.	
0x03FFFFFF	Other errors	
0x04000001	No command error The specified CPU type cannot be used to perform processing.	• Check the CPU type set to ActCpuType. • Check whether the system configuration is supported or not. • Exit the program and restart the personal computer. • Reinstall MX Component.
0x04000002	Memory lock error Failed in locking memory.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04000003	Memory Secure error Failed in securing the memory.	
0x04000004	Internal server DLL load error Start of the internal server failed.	• Check for the deleted or moved installation file of MX Component. • Exit the program and restart the personal computer. • Reinstall MX Component.

Error code	Error description	Corrective action
0x04000005	Securing Resources error Failed in securing the resources.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04000006	Error Loading Main Object Failed in reading the file.	
0x04000007	Error Loading Conversion Table Failed in reading table data.	
0x04000100	Incorrect Intermediate Code Size error	
0x04010001	Intermediate Code Not Converted error The converted machine code for one command is more than 256 bytes.	
0x04010002	Intermediate Code Completion error Intermediate code area of the code to be converted ended abruptly.	
0x04010003	Insufficient Intermediate Code error The intermediate code of the code to be converted was insufficient.	
0x04010004	Intermediate Code Data error The intermediate code to be converted is incorrect.	
0x04010005	Intermediate Code Structure error The number of steps in the intermediate code is incorrect.	
0x04010006	Error in Number of Steps The number of steps in comment intermediate code is incorrect.	
0x04010007	Insufficient Storage Space for Machine Code error The storage space for machine code is insufficient.	
0x04010008	Other errors (Other errors generated during the conversion of Intermediate code to machine code.)	
0x04011001	Machine Code Not Converted error The converted intermediate code for one command is more than 256 bytes.	
0x04011002	Machine Code Completion error The machine code area to be converted ended abruptly.	
0x04011003	Could not convert since the machine code to be converted was abnormal.	
0x04011004	Insufficient Storage Space for Intermediate Code error The storage area for intermediate code is insufficient.	
0x04011005	Other errors (Other errors generated while converting machine code to Intermediate code.)	
0x04020001	Text Code Not Converted error The converted intermediate code for one command is more than 256 bytes.	
0x04020002	No Input error The input list code is insufficient.	
0x04020003	Command error The command name of list code to be converted is incorrect.	
0x04020004	Device error The device name of list code to be converted is incorrect.	
0x04020005	Device No. error The device number of the list code to be converted is out of range.	
0x04020006	Conversion error The list code to be converted conversion could not be identified.	

Error code	Error description	Corrective action
0x04020007	Text Data error The list code to be converted is incorrect.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04020008	Error in SFC Operation Output The output command of SFC operation is incorrect.	
0x04020009	SFC Shift Condition error SFC shift condition command is incorrect.	
0x0402000A	Error in Statements between lines The statements entered between lines are incorrect.	
0x0402000B	P.I Statement error The P.I statement entered is incorrect.	
0x0402000C	Note error The Note entered is incorrect.	
0x0402000D	Comment error The comment entered is incorrect.	
0x0402000E	Other errors (Other errors generated during the conversion of list to Intermediate code)	
0x04021001	Intermediate Code Not Converted error The converted list code for one command has exceeded 256 bytes.	
0x04021002	Intermediate Code Area Full error Intermediate code area to be converted is full.	
0x04021003	Command error The command specified by the intermediate code to be converted is incorrect.	
0x04021004	Device error The device specified in the intermediate code to be converted is incorrect.	
0x04021005	Intermediate Code error The structure of intermediate code to be converted is incorrect.	
0x04021006	Insufficient List Storage Space error The space for storing the converted list code is insufficient.	
0x04021007	Other errors (Other errors generated during the conversion of intermediate code to list)	
0x04030001	Not Converted error The storage space for converted intermediate code is insufficient.	
0x04030002	Bad Circuit Creation error The character memory circuit is not completed in a sequence.	
0x04030003	Specified Circuit Size Exceeded Specified circuit size is too big.	
0x04030004	Incorrect Return Circuit error There is no consistency before and after the return circuit. The setting for the return circuit is too high.	
0x04030005	Other errors (Other errors generated while converting from Character Memory to Intermediate Code)	
0x04031001	Not Converted error The size (vertical/horizontal) of the character memory specified is incorrect.	
0x04031002	Abnormal Command Code error The command intermediate code to be converted is incorrect.	
0x04031003	Bad Circuit Creation error Could not be converted to Sequence Circuit. There is no END command.	

Error code	Error description	Corrective action
0x04031004	Specified Circuit Size exceeded error Specified circuit size is too big.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04031005	Fatal error Fatal error has occurred.	
0x04031006	Insufficient number of storage blocks error The space to store the converted character memory circuit blocks is not sufficient.	
0x04031007	Circuit Block Search error Data is broken off in the circuit block.	
0x04031008	Other errors (Other errors generated during the conversion of intermediate code to character memory)	
0x04040001	CAD Data error The CAD data format is incorrect.	
0x04040002	Output Data error The input CAD data type and the output CAD data type are not matching.	
0x04040003	Library Load error Failed to load the library.	
0x04040004	Storage Space Secure error The space secured to store the converted data is not sufficient.	
0x04040005	No END Command error There is no END command in the CAD data to be converted.	
0x04040006	Abnormal Command Code There is abnormal command code in the CAD data to be converted.	
0x04040007	Device No. error The device number is out of range.	
0x04040008	Step No. error The step number is out of range.	
0x04040009	The specified circuit size exceeded error. 1 circuit block is too big.	
0x0404000A	Return Circuit Error The return circuit is incorrect.	
0x0404000B	Bad Circuit Creation error The circuit data is incorrect.	
0x0404000C	SFC Data error The SFC data to be converted is incorrect.	
0x0404000D	List Data error The list data to be converted is incorrect.	
0x0404000E	Comment Data error The comment data to be converted is incorrect.	
0x0404000F	Statement error The statement data to be converted is incorrect.	
0x04040010	Other errors (Other errors generated during the conversion of CAD code to Intermediate code.)	
0x04041001	Intermediate Code Data error There is no intermediate code to be converted. The format of the intermediate code is incorrect.	
0x04041002	CAD Data Type error The input CAD data type and the output CAD data type are not matching.	

Error code	Error description	Corrective action
0x04041003	Library error Failed to load the library.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04041004	Insufficient Input Data error Data to be converted is insufficient.	
0x04041005	Insufficient Storage Space error There is not enough space to store the CAD data to be converted.	
0x04041006	No END Command error There is no END command in the CAD data to be converted.	
0x04041007	Abnormal Command Code There is abnormal command code in the CAD data to be converted.	
0x04041008	Device No. error The device number is out of range.	
0x04041009	Step No. error The step number is out of range.	
0x0404100A	The specified circuit size exceeded error 1 circuit block is too big.	
0x0404100B	Return Circuit error The return circuit is incorrect.	
0x0404100C	Bad Circuit Creation error The circuit data is incorrect.	
0x0404100D	SFC Data error The SFC data to be converted is incorrect.	
0x0404100E	List Data error The list data to be converted is incorrect.	
0x0404100F	Comment Data error The comment data to be converted is incorrect.	
0x04041010	Statement error The statement data to be converted is incorrect.	
0x04041011	Other errors (Other errors generated during the conversion of Intermediate code to CAD code.)	
0x04050001	Abnormal Character String Specified error Device character string specified is incorrect.	
0x04050002	Device Points error Device points are out of range.	
0x04050003	Other errors (The errors generated during the conversion of the Device Character String to Device Intermediate Code)	
0x04051001	Device Name error The classification specified for the device intermediate code is incorrect.	
0x04051002	Device Name error The classification specified for the extended specification device intermediate code is incorrect.	
0x04051003	Other errors (The errors generated during the conversion of the Device Intermediate Code to Device Character String)	
0x04052001	Abnormal Character String Specified error Device character string specified is incorrect.	
0x04052002	Device Points error Device points are out of range.	
0x04052003	Other errors (The errors generated during the conversion of the Device Character String to Device Representation Code)	
0x04053001	Device Representation error The classification specified for the device intermediate code is incorrect.	

Error code	Error description	Corrective action
0x04053002	Device Representation error The classification specified for the extended specification device intermediate code is incorrect.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04053003	Device Representation error The rectification part specified for the device is incorrect.	
0x04053004	Device Representation error The rectification part specified for the extended device is incorrect.	
0x04053005	Other errors (The errors generated during the conversion of the Device Representation Code to Device Character String)	
0x04064001	Abnormal Device Intermediate Code error The intermediate code for the device is incorrect.	
0x04064002	Other errors (Other errors generated during the conversion of the Intermediate code for the Device to Device Name)	
0x04065001	Abnormal Device Name error The classification specified for the intermediate code of the device is incorrect.	
0x04065002	Abnormal Device Name error The classification for the intermediate code of the extended specification device is incorrect.	
0x04065003	Other errors (Other errors generated during the conversion of the device name to Intermediate code)	
0x04066001	Device Intermediate Code error The intermediate code for the device is incorrect.	
0x04066002	Other errors (Other errors generated during the conversion of the device intermediate code to device representation code.)	
0x04067001	Device Representation error The classification specified for the intermediate code of the device is incorrect.	
0x04067002	Device Representation error The classification for the intermediate code of the extended specification device is incorrect.	
0x04067003	Device Representation error The rectification part specified for the device is incorrect.	
0x04067004	Device Representation error The rectification part specified for the extended device is incorrect.	
0x04067005	Other errors (Other errors generated during the conversion of device representation code to the device intermediate code)	
0x04070001	Common Data Conversion error The input data of the device comment conversion is incorrect.	
0x04070002	Insufficient Common Data The data to be converted is insufficient.	
0x04070003	Insufficient Storage Area The area where the conversion data is stored is insufficient.	
0x04071001	Error in CPU Data Conversion The input data of the device comment conversion is incorrect.	
0x04071002	Insufficient CPU Data error The data to be converted is insufficient.	
0x04071003	Insufficient Storage Area The area where the conversion data is stored is insufficient.	
0x04072001	Open error Failed in creating conversion object.	
0x04072002	CPU Type error The specified CPU type does not exist.	

Error code	Error description	Corrective action
0x04072003	Not Converted error Converted object does not exist.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04072004	Input Data error The input data is incorrect.	
0x04073001	Program Common Data Conversion error	
0x04073002	Program Common Data Conversion error	
0x04073101	Program CPU Data Conversion error	
0x04074001	Common Data Parameter error	
0x04074002	Network Parameter Common Data error The parameter block exists, but the data inside is not set.	
0x04074101	Parameter CPU Data error	
0x04074102	Network Parameter CPU Data error The parameter block exists, but the data inside is not set.	
0x04074103	Offset error	
0x04074201	Error in Specifying Network Type The CPU specified does not support the network type.	
0x04074202	Parameter Block Number error The Block corresponding to the parameter block number specified does not exist.	
0x04074203	Parameter Block Content error It is different from the content supported by the specified.	
0x04074204	Parameter Block Information error The specified block number does not exist.	
0x04074205	Default Parameter Block is Abnormal The specified block number does not exist.	
0x04074301	Error in Conversion of the Common Parameter Block	
0x04074302	Error in Common Parameter Block No. 1001 The value of the RUN-PAUSE settings existence flag is incorrect.	
0x04074303	Error in Common Parameter Block No. 1003	
0x04074304	Error in Common Parameter Block No. 1008	
0x04074305	Error in Common Parameter Block No. 1100	
0x04074306	Error in Common Parameter Block No. 2001 The device intermediate code specified does not exist.	
0x04074307	Error in Common Parameter Block No. 3000	
0x04074308	Error in Common Parameter Block No. 3002	
0x04074309	Error in Common Parameter Block No. 3004 The settings for the annunciator display mode is incorrect.	
0x0407430A	Error in Common Parameter Block No. 4000 I/O Allotment Data is not created.	
0x0407430B	Error in Common Parameter Block No. 5000 The specified network is not supported.	
0x0407430C	Error in Common Parameter Block No. 5001 Valid unit No is not set while accessing other exchange.	
0x0407430D	Error in Common Parameter Block No. 5002	
0x0407430E	Error in Common Parameter Block No. 5003	
0x0407430F	Error in Common Parameter Block No. 5NM0	
0x04074310	Error in Common Parameter Block No. 5NM1	

Error code	Error description	Corrective action
0x04074311	Error in Common Parameter Block No. 5NM2	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04074312	Error in Common Parameter Block No. 5NM3	
0x04074313	Error in Common Parameter Block No. 6000	
0x04074314	Error in Common Parameter Block No. FF18 Link parameter Capacity is not set.	
0x04074315	Error in Common Parameter Block No. FF25 Calculation circuit check is not set.	
0x04074316	Error in Common Parameter Block No. FF30 Sampling Trace Data is not created.	
0x04074317	Error in Common Parameter Block No. FF31 Status latch data is not created.	
0x04074318	Error in Common Parameter Block No. F42 Timer processing points are not set.	
0x04074319	Error in Common Parameter Block No. FF30 Setting value device for specified extended timer does not exist.	
0x0407431A	Error in Common Parameter Block No. FF44	
0x0407431B	Error in Common Parameter Block No. FF45	
0x0407431C	Error in Common Parameter Block No. FF60 Terminal Settings are not set.	
0x0407431D	Error in Common Parameter Block No. FF70 User Release area is not set.	
0x04074401	Error in Conversion of CPU Parameter Block	
0x04074402	Error in CPU Parameter Block No.1001	
0x04074403	Error in CPU Parameter Block No.1003	
0x04074404	Error in CPU Parameter Block No.1008	
0x04074405	Error in CPU Parameter Block No.1100	
0x04074406	Error in CPU Parameter Block No. 2001	
0x04074407	Error in CPU Parameter Block No. 3000	
0x04074408	Error in CPU Parameter Block No. 3002	
0x04074409	Error in CPU Parameter Block No. 3004	
0x0407440A	Error in CPU Parameter Block No. 4000	
0x0407440B	Error in CPU Parameter Block No. 5000 The specified network type is not supported.	
0x0407440C	Error in CPU Parameter Block No. 5001	
0x0407440D	Error in CPU Parameter Block No. 5002	
0x0407440E	Error in CPU Parameter Block No. 5003	
0x0407440F	Error in CPU Parameter Block No. 5NM0 The specified network type is not supported.	
0x04074410	Error in CPU Parameter Block No. 5NM1	
0x04074411	Error in CPU Parameter Block No. 5NM2 The specified network type is not supported.	
0x04074412	Error in CPU Parameter Block No. 5NM3	
0x04074413	Error in CPU Parameter Block No. 6000	
0x04074414	Error in CPU Parameter Block No. FF18	
0x04074415	Error in CPU Parameter Block No. FF25	
0x04074416	Error in CPU Parameter Block No. FF30	
0x04074417	Error in CPU Parameter Block No. FF31	
0x04074418	Error in CPU Parameter Block No. FF42	
0x04074419	Error in CPU Parameter Block No. FF43	

Error code	Error description	Corrective action
0x0407441A	Error in CPU Parameter Block No. FF44	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0407441B	Error in CPU Parameter Block No. FF45	
0x0407441C	Error in CPU Parameter Block No. FF60	
0x0407441D	Error in CPU Parameter Block No. FF70	
0x04075001	Common Data Conversion error Failed while converting the device memory settings portion.	
0x04075002	Common Data Conversion error Failed while converting the device memory settings portion.	
0x04075003	Common Data Conversion error Device memory data portion did not exist.	
0x04075101	CPU Data Conversion error Failed while converting the settings portion of the device memory.	
0x04075102	CPU Data Conversion error Failed while converting the data portion of the device memory.	
0x04076001	Common Data Conversion error Failed while converting the settings portion of the device comments.	
0x04076002	Common Data Conversion error Failed while converting the data portion of the device comments.	
0x04076101	CPU Data Conversion error Failed while converting the settings portion of the device comments.	
0x04076102	CPU Data Conversion error Failed while converting the settings portion of the device comments.	
0x04077001	Common Data Conversion error Failed during the conversion of sampling trace settings portion.	
0x04077002	Common Data Conversion error Failed during the conversion of sampling trace data portion.	
0x04077101	CPU Data Conversion error Failed during the conversion of sampling trace settings portion.	
0x04077102	CPU Data Conversion error Failed during the conversion of sampling trace data portion.	
0x04078001	Common Data Conversion error Failed in the conversion of the status latch settings portion.	
0x04078002	Common Data Conversion error Failed in the conversion of the status latch data portion.	
0x04078101	CPU Data Conversion error Failed in the conversion of the status latch settings portion.	
0x04078102	CPU Data Conversion error Failed in the conversion of the status latch data portion.	
0x04079101	Failure history CPU Data Conversion error	
0x0407A101	File List CPU Data Conversion error	
0x0407B101	Error Information CPU Data Conversion error	
0x0407C001	Error in Conversion of Indirect Address to Device Name The device name storage area is not secured.	
0x0407C002	Error in Conversion of Device Name to Indirect Address Indirect Address storage area is not secured.	
0x0407C003	Error in Conversion of Indirect Address to Device Representation The device representation storage area is not secured.	
0x0407C004	Error in Conversion of Device Representation to Indirect Address Indirect Address storage area is not secured.	
0x0407C005	Error in Conversion of Indirect Address to Device Character String Device Character String storage area is not secured.	

Error code	Error description	Corrective action
0x0407C006	Error in Conversion of Device Character String to Indirect Address Indirect Address storage area is not secured.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x0407C007	Error in Conversion of Intermediate Code to Device Name Device Name storage area is not secured.	
0x0407C008	Error in Conversion of Device Name to Intermediate Code Intermediate Code storage area is not secured.	
0x0407C009	Error in Conversion of Intermediate Code to Device representation Device Representation storage area is not secured.	
0x0407C00A	Error in Conversion of Device Representation to Intermediate Code Intermediate Code storage area is not secured.	
0x0407C00B	Error in Conversion of Intermediate Code to Indirect Address Indirect Address storage area is not secured.	
0x0407C00C	Error in Conversion of Indirect Address to Intermediate Code Intermediate Code storage area is not secured.	
0x0407C00D	CPU Type error The specified CPU type is not supported.	
0x0407C00E	Device Character String error The specified device is not supported.	
0x0407C00F	Device Character String error The specified device character string, type is incorrect.	
0x0407C010	Device error The specified device is not supported by the specified CPU.	
0x0407C011	CPU Type error The specified CPU is not supported.	
0x0407C012	Device out of Range error	
0x0407D001	Common Data Conversion error Error in Conversion of SFC trace condition settings portion.	
0x0407D002	Common Data Conversion error Error in Conversion of SFC trace condition data portion.	
0x0407D101	CPU Data Conversion error Error in Conversion of SFC trace condition settings portion.	
0x0407D102	CPU Data Conversion error Error in Conversion of SFC trace condition data portion.	
0x04080001	Intermediate Code classification out of range error The intermediate code classification specified is out of range.	
0x04080002	Extended specification Intermediate Code classification out of range error The extended specification intermediate code specified is out of range.	
0x04080003	Device Points check absent error The device does not check the device points.	
0x04090001	GPP Project error The specified CPU type and GPP project type are not matching.	
0x04090002	File Type error The specified GPP project type and file type are not matching.	
0x04090010	Insufficient GPP Data to be converted There is no data to be converted. The data size specified is incorrect.	
0x04090011	Insufficient Storage Space for Converted Data The space for storing converted data is insufficient.	

Error code	Error description	Corrective action
0x04090012	Error in GPP Data to be converted The GPP data to be converted is incorrect.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x04090110	Insufficient Data to be converted error There is no data to be converted. The data size specified is insufficient.	
0x04090111	Insufficient Storage Space for Converted Data error. The storage space for converted data is insufficient.	
0x04090112	Error in data to be converted The data to be converted is incorrect.	
0x040A0001	Insufficient Intermediate Code Storage Space The space to store the data after conversion is insufficient.	
0x040A0002	The space to store addition SFC information is not sufficient.	
0x040A0003	Conversion error	
0x040A0004	Non-SFC Program error	
0x040A1001	Step Not Used / No Output error	
0x040A1002	Step No. out of range error	
0x040A1003	Step Not Used / No Output error	
0x040A1004	Transition No. out of range	
0x040A1005	Maximum Number Exceeded error	
0x040A1006	Microcontroller Program space error	
0x040A1007	Non-SFC Program error	
0x040B0001	Insufficient Intermediate Code Storage Space The space to store the data after conversion is insufficient.	
0x040B0002	Conversion error	
0x040B1001	Failed in creating Step Start position table	
0x040B1002	Error Reading Step Information	
0x040B1003	Step No. error	
0x040B1004	Failed in reading the output of operation/Transition condition intermediate code error	
0x040B1005	Securing Internal Work Area Failed error	
0x040B1006	Error in setting the maximum value of X direction for character memory	
0x040B1007	Insufficient Internal Work Area error	
0x040B1008	Stack Overflow, Abnormal Character Memory	
0x040B1009	Insufficient No of Storage Blocks error	
0x040B100A	Non-SFC Program error	
0x04FFFFFF	Other errors	
0x10000001	No command error	
0x10000002	Start of communication DLL of MX Component failed.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x10000003	Open failed. (DiskDrive)	
0x10000004	Duplex open error	• Exit the program and restart the personal computer.
0x10000005	File Access error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x10000006	Incorrect Folder Name error	
0x10000007	File Access Denied error	
0x10000008	Disk Full error	
0x10000009	File Delete error	
0x1000000A	Incorrect File Name error	
0x1000000C	Execution failed since another application or thread is making a request.	• Execute again after some time. • Perform programming according to the multithread rules of COM and ActiveX. • Exit the program and restart the personal computer.

Error code	Error description	Corrective action
0x1000000D	Folder Creation error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x1000000E	Folder/ File Type error	
0x1000000F	Offset Address error	
0x10000010	Request Cancel Cancel Process has occurred.	
0x10000011	Memory securing error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x10000012	Open not yet executed	• Exit the program and restart the personal computer.
0x10000013	Attach Not Executed error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x10000014	Object Invalid error	
0x10000015	Request Cancel Failed error	
0x10000016	Failed in Reading Status error	
0x10000017	The specified size (number of devices) is unauthorized.	• Check the number of points specified in the method. • Exit the program and restart the personal computer.
0x10000018	There is no registered device.	• Exit the program and restart the personal computer.
0x10000019	Data set Not Executed	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x1000001A	Read Not Executed error	
0x1000001B	Incorrect Create Flag error	
0x1000001C	Operation Over Access	
0x1000001D	Redundant Device error	
0x1000001E	Registry search failed.	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area. • Reinstall MX Component.
0x1000001F	File Type error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x10000020	Device Memory Type error	
0x10000021	Program Range error	
0x10000022	TEL Type error	
0x10000023	TEL Access error	
0x10000024	Cancel Flag Type error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x10000030	Multiple Device Registration error	
0x10000031	Device Not Registered error	
0x10000032	Specified device error	• Review the specified device data. • Exit the program and restart the personal computer. • Exit other programs and secure free memory area.
0x10000033	Specified device range error	
0x10000034	File Write error	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x10000040	Server start failed.	
0x10000041	Server Stop error Failed while stopping the server.	
0x10000042	Server Started Twice error	
0x10000043	Server Not Started error	
0x10000044	Resource Timeout error	
0x10000045	Server Type error	
0x10000046	Failed to Access Server error	
0x10000047	Server Already Accessed error	
0x10000048	Failed in Simulator Startup	
0x10000049	Failed in exiting Simulator	
0x1000004A	Simulator Not Started error	
0x1000004B	Simulator Type error	
0x1000004C	Simulator Not Supported error	
0x1000004D	Simulator Started Twice error	
0x1000004E	Shared Memory Not Started error	
0x10000055	GX Simulator3 did not start error	• Start GX Simulator3.

Error code	Error description	Corrective action
0x10000059	Timeout error	• Check the property timeout value. • Check the settings in the communication settings utility. • Check the programmable controller, unit settings, state of the cable, etc. • Close and Open again. • Exit the program and restart the personal computer.
0x1000005A	System number error	• Check the system number set on the communication setup utility
0x8001000C	Data out of the allowable setting range is specified.	• Review the value of the property. • Set it again on the communication settings utility.
0x80010016		
0x80010101	Timeout error	• Check the property timeout value. • Check the settings in the communication settings utility. • Check the unit settings, state of the cable, etc. • Close and Open again. • Exit the program and restart the personal computer.
0x80020001	Type of data is invalid.	• Review the value of the property. • Set it again on the communication settings utility.
0x80020002	Range of the data is incorrect.	
0x80030001	The specification of the communication port is incorrect.	• Review the communication port value of the property. • Set it again on the communication settings utility.
0x80030002	The specification of the Transmission speed is incorrect.	• Review the transmission speed value of the property. • Set it again on the communication settings utility.
0x80030003	The specification of the Data bit length is incorrect.	• Review the data bit length of the property. • Set it again on the communication settings utility.
0x80030004	The specification of the parity is incorrect.	• Review the parity value of the property. • Set it again on the communication settings utility.
0x80030005	The specification of the stop bit length is incorrect.	• Review the stop bit value of the property. • Set it again on the communication settings utility.
0x80030006	The specification of the wait time is incorrect.	• Review the wait time of the property. • Set it again on the communication settings utility.
0x80030007	The specification of the CR/LF is incorrect.	• Review the CR/LF of the property. • Set it again on the communication settings utility.
0x80030008	The specification of the timeout is incorrect.	• Review the time-out value of the property. • Set it again on the communication settings utility.
0x80030009	The specification of the station number is incorrect.	• Review the station number of the property. • Set it again on the communication settings utility.
0x8003000A	USB communication setting is invalid.	• Review the value of the property. • Set it again on the communication settings utility.
0x8003000B	USB model code is invalid.	
0x8003000C	Duplication was detected in station number of the USB communication.	• Review the station number of the property. • Set it again on the communication settings utility.
0x80200107	Communication error	• Try the same method again. • Exit the program and restart the personal computer.
0x80200203	Memory Secure error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area.
0x80201001	Specified CPU error	• Check the CPU type set to ActCpuType. • Check that the system configuration is not an unsupported configuration.
0x80201101	Already open error The Open method was executed in the open status.	• When changing the communication target CPU, execute the Open method after performing Close.
0x80201104	DLL load error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area. • Reinstall MX Component.
0x80201106	Error in Communication object generation	• Exit the program and restart the personal computer. • Reinstall MX Component.
0x80201201	Not yet open error The Open method is not yet executed.	• After executing the Open method, execute the corresponding method.
0x80201203	Memory Secure error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area.
0x80204203	Memory Secure error	
0x80205203	Memory Secure error	
0x80205001	Specified CPU error	• Check the CPU type set to ActCpuType. • Check that the system configuration is not an unsupported configuration.
0x80209501	MT Simulator2 start error	• Exit the program and restart the personal computer.
0x80209502	MT Simulator2 start error	• Exit the program and restart the personal computer.
0x80209503	MT Simulator2 communication error	• Exit the program and restart the personal computer.

Error code	Error description	Corrective action
0x80209504	MT Simulator2 start error Because it had reached upper bounds of the number of simulations that was able to be started at the same time, it was not possible to start.	• Retry after exiting MT Simulator2.
0x80209505	MT Simulator2 stop error	• Exit the program and restart the personal computer.
0x80209506	MT Simulator2 stop error	• Exit the program and restart the personal computer.
0x8020950F	MT Simulator2 stop error MT Simulator2 is not started.	• Retry after starting MT Simulator2.
0x80209510	MT Simulator2 start error MT Simulator2 is not started.	• Retry after starting MT Simulator2.
0x80209516	MT Simulator2 start error MT Works2 uninstallation error.	• Install MT Works2.
0x80209518	MT Simulator2 start error The specified number is already used.	• Execute after exiting the specified No. of MT Simulator2.
0x80209519	Send data illegal error	• Review the argument.
0x8020951C	MT Simulator2 start error MT Simulator2 is ending.	• Retry after exiting MT Simulator2.
0x8020951D	MT Simulator2 start error Already executed Open.	• Retry after performing Close.
0x8020951E	MT Simulator2 non-Open error	• Retry after performing Open.
0x8020951F	MT Simulator2 start error Already executed Open.	• Retry after performing Close.
0x80206004	Remote request error	• Change the switch on the module to RUN, exit the test mode, and try again.
0x8020A104	DLL load error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area. • Reinstall MX Component.
0x8020A203	Memory Secure error	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area.
0x80A00101	Not yet open error The Open method is not yet executed.	• After executing the Open method, execute the corresponding method.
0x80A00104	Already open error The Open method was executed in the open status.	• When changing the communication target CPU, execute the Open method after performing Close.
0x80A00105	Incorrect data type of the argument	• Check the data type being used for the argument.
0x80A00106	Data range of the argument is invalid	• Check the value being used for the argument.
0x80A00107	No command error	• Not supported by the method.
0x80A00109	Data source cannot be opened.	• Check the cable connection.
0x80A0010C	The response format from the robot controller was incorrect.	• Take measures against noise
0xF0000001	No-license error The license is not given to the personal computer.	• Using the license FD, give the license to the personal computer.
0xF0000002	Set data read error Reading of the set data of the logical station number failed.	• Specify the correct logical station number. • Set the logical station number on the communication settings utility.
0xF0000003	Already open error The Open method was executed in the open status.	• When changing the communication target CPU, execute the Open method after performing Close.
0xF0000004	Not yet open error The Open method is not yet executed.	• After executing the Open method, execute the corresponding method.
0xF0000005	Initialization error Initialization of the object possessed internally in MX Component failed.	• Exit the program and restart the personal computer. • Reinstall MX Component.
0xF0000006	Memory securing error Securing of MX Component internal memory failed.	• Exit the program and restart the personal computer. • Exit other programs and secure free memory area.
0xF0000007	Function non-support error The method does not support.	• Can not use because the corresponding method is not supported.
0xF1000001	Character code conversion error Character code conversion (UNICODE to ASCII code or ASCII code to UNICODE) failed.	• Check the character string specified in the method. • The ASCII character string acquired from the programmable controller CPU is abnormal. • Review the system, e.g. programmable controller CPU, module setting and cable status. • Exit the program and restart the personal computer. • Retry the GetCpuType method.

Error code	Error description	Corrective action
0xF1000002	First I/O number error The first I/O number specified is an unauthorized value. A matching first I/O number does not exist.	• Check the value of the first I/O number specified in the method. • Using the GPP function, check the programmable controller CPU parameters (I/O assignment).
0xF1000003	Buffer address error The buffer address specified is an unauthorized value. The buffer address is outside the range.	• Check the value of the buffer address specified in the method.
0xF1000004	Buffer read size error As a result of buffer read, the specified size could not be acquired.	• Perform reopen processing. • Review the system, e.g. programmable controller CPU, module setting and cable status. • Retry. • Exit the program.
0xF1000005	Size error The size specified in the read/write method is abnormal. The read/write first number plus size exceeds the device or buffer area.	• Check the size specified in the method.
0xF1000006	Operation error The operation specified for remote operation is an abnormal value.	• Check the operation specifying value specified in the method.
0xF1000007	Clock data error The clock data is abnormal.	• Check the clock data specified in the method. • Set the correct clock data to the clock data of the programmable controller CPU.
0xF1000008	Monitored device registration count excess The number of device points registered in the EntryDeviceStatus method was 0 or less. The number of device points registered in the EntryDeviceStatus method was more than 20.	• Register the device points between 1 and 20 in the EntryDeviceStatus method.
0xF1000009	Monitored device data registration error	• After making deregistration in the FreeDeviceStatus method, execute the EntryDeviceStatus method again.
0xF1000010	Device status monitor processing failed to start. Device status monitor processing failed to end.	• Start/end the device status monitor processing again in the EntryDeviceStatus method.
0xF1000011	The VARIANT argument data type is wrong.	• Reexamine the data type specified for the VARIANT argument. • Check whether the array variable size is large enough. • Check whether the data type specified in the corresponding method has been set.
0xF1000012	The device status monitoring time interval is a value outside the range 1 second to 1 hour (1 to 3600).	• Specify the device status monitoring time between 1 and 3600.
0xF1000013	Already Connected error. Connect was executed again after it was executed for the same object.	• Execute the Connect method after executing the Disconnect method.
0xF1000014	Invalid Telephone Number error. Characters other than "0123456789-*#" that are allowed for telephone numbers are included.	• Rectify the Telephone number and try to Connect again.
0xF1000015	Exclusive Control Failure error. There was failure in the exclusive control process while executing the Connect and Disconnect method.	• In case if Connect/Disconnect method is being executed for any other object, execute the failed method (Connect/ Disconnect) again after the completion of the Connect/ Disconnect method of that object. • If the Connect/Disconnect process is in progress only for the self object, perform the following. · Exit the program. · Restart the personal computer. · Reinstall MX Component.
0xF1000016	While connecting to the telephone line error. The telephone line is connected to some other application, other than the one using MX Component.	• Try Connecting again after disconnecting the application that is using the telephone line.
0xF1000017	Telephone line not connected error. Telephone line is not connected. Connect was executed and the telephone line was connected, but it got disconnected due to some reason.	• (When Connect method has failed) Execute Connect again after executing Disconnect method. • (When method other than Connect has failed) Execute Disconnect method, Execute Connect and connect to the telephone line. After connecting, execute the method that failed once again.

Error code	Error description	Corrective action
0xF1000018	No Telephone number error. The telephone No. is not set. The telephone No. or call back No. is not set, if the connection method is Automatic (when specifying the call back No.), call back connection (when specifying the number), or call back Request(when specifying the number).	• In case of program settings type, set the telephone No. to the property ActDialNumber. (Set the telephone No. to the properties ActDialNumber and ActCallbackNumber, if the connection method is automatic (when specifying the call back No.), call back connection (when specifying the telephone No.), or call back request (when specifying the number).) • In case of utility settings type, set the telephone No. using the wizard. (Set the telephone No. and call back No. , if the connection method is automatic (when specifying the call back No.), call back connection (when specifying the telephone No.), or call back request (when specifying the number).)
0xF1000019	Not Closed error. Disconnect was executed while in Open state.	• Try Disconnect again after executing Close.
0xF100001A	Target telephone line connection mismatch error. Connect was tried for a different telephone number using the port which is already connected to a telephone line. (When the method of connection is a callback reception, it is considered that the telephone number is different from methods of connection in other than the callback reception.)	• If you want to connect to a different telephone number, Execute Disconnect with respect to the telephone line that is already connected and executes Connect after it gets disconnected. • In case of connecting the telephone line with callback reception, use the Connect of the connection method that is executed at the earliest in the same port as callback reception.
0xF100001B	Control Type Mismatch error. An object, whose control type is different from that of the object already connected to the telephone line, tried to Connect.	• Execute Disconnect for the object currently connected to the telephone line and execute Connect once again after the telephone line gets disconnected.
0xF100001C	Not Disconnected error. When Disconnect method is executed for the object connected to the telephone line, it is found that other objects are in connected state.	• Execute Disconnect for all the Connected objects. Try Disconnect again for the object that actually performed the telephone line connection.
0xF100001D	Not Connected error. Open was executed before Connect. Or, Disconnect was executed.	• Execute Open again after executing Connect. • Or execute Disconnect again after executing Connect.
0xF100001E	Fatal error.	• Exit the program. • Restart the personal computer. • Reinstall MX Component.
0xF100001F	Open time setting error There are some differences in telephone number and the port number settings used during Connect and Open. There are some errors in Connect way.	• Check the telephone number and the port number. • Check the Connect way.
0xF1000020	GX Simulator3 did not start error	• Start GX Simulator3.
0xF1000021	No data error The size of the specified file is '0'.	• Check the file.
0xF1000022	File size error The specified file size is too large.	• Check the file.
0xF1000023	File input/output error An error occurred while saving a file.	• Check the file name.
0xF1000024	No file found error No more files not found.	• End the search.
0xF1000025	File name error The file name is too long. Set a transfer source directory name within 188 bytes. Set a transfer source file name within 318 bytes. Set a transfer destination file name within 259 bytes.	• Check the file name.
0xF2000002	There is an error response from the target telephone. Causes can be the following. Communication error has occurred.	• Check the value of the properties set in case of program settings type. • Check the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2000003	Invalid data was received. Causes can be the following. Incorrect data packet is received due to noise.	• Retry. • Check the communication device used at the other end.
0xF2000004	There is no response from the modem. Causes can be the following. Abnormality in the modem Telephone number setting mistake	• Check the status of the modem. • Check the telephone number. • If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timing) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2000005	There are chances that the line is not disconnected.	• Check the telephone line.

Error code	Error description	Corrective action
0xF2000006	The PC modem did not receive the AT command. Causes can be the following. Invalid AT command was specified. Abnormality in the modem.	• Check the contents of the AT command. • Check the status of the modem.
0xF2000007	Modem did not respond properly to the standard escape command.	• Check the modem. • Confirm whether the value of the time-out is too small. (5000ms or more is recommended.)
0xF2000009	Modem does not respond properly to the line Disconnect command.	• Check the modem.
0xF200000A	Target did not receive the signal. The Receive settings of the modem at the other end may be incorrect. The other end may be busy. The telephone number may be incorrect.	• Check the Receive settings of the modem at the other end. • Check if the other end is busy. • Check the telephone number.
0xF200000B	Timeout reached for the call back receive waiting time.	• Increase the call back receive waiting time ActCallbackReceptionWaitingTimeOut and execute connect again.
0xF200000C	Password of QJ71C24 units could not be resolved.	• Set the password to ActPassword property and execute the failed method again.
0xF2010001	The callback line disconnect wait time is other than 0 -180 Seconds. The callback execution delay time is other than 0 -1800 Seconds. The telephone number is more than 62 characters.	• Check whether the callback line disconnect wait time is with in 0 - 180 Seconds. • Check whether the callback execution delay time is within 0 - 1800 Seconds. • Check whether the telephone number is less than or equal to 62 characters. • Exit the program and restart the personal computer. • Reinstall Component.
0xF2010002	QJ71C24 did not receive the specified connection method. Causes can be the following. Incorrect Connection method Incorrect telephone number for Call back	• Check whether the settings of QJ71C24 and the MX Component are matching.
0xF2010003	QJ71C24 does not permit the automatic connection (during fixed Call back or when the number is specified.)	• Check the settings of QJ71C24.
0xF2100005	There are chances that the line is not disconnected.	• If there is no problem with the modem or the telephone line, change the value of the properties set (Properties like ActConnectionCDWaitTime etc. , which set the timing) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2100006	Modem did not receive the startup command AT.	• Change the settings of the property ActATCommand in case of program settings type. • Change the command AT that were set using the wizard in case of utility settings type.
0xF2100007	The PC modem does not respond to the Escape command.	• If there is no problem with the modem, change the value of the properties set (Properties like ActConnectionCDWaitTime etc. , which set the timing) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2100008	There was no response from the modem for the data sent from the PC.	• Change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timing) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF21000**	There is no response from the modem. Causes can be the following. Abnormality in the modem Telephone number setting mistake	• Check the status of the modem. • Check the telephone number. • If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timing) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF202****	There was a communication failure. Following causes can be considered depending on the status. Communication time over (Break in cable, the specified port not supported, mistake in specifying the COM port) Modem's power is switched OFF.	• Check whether the cable is broken. • Check whether the specified port is not supported. • Check whether correct COM port is set. • Check if the modem power is switched OFF. • For detailed troubleshooting, please refer to the details of the error code got after replacing the first four digits with "0x0180". e.g. In case of "0xF202480B", please refer to the code "0x0180480B".
0xF3000001	Label error The label character string specified in the method is an unauthorized label character string.	• Review the label name. • Start Label Utility, please check System label information.

Error code	Error description	Corrective action
0xF3000002	Label Service not started	• Exit the program and restart the personal computer. • Reinstall MX Component. • Start Label Utility, please check System label information.
0xF3000003	MMS Service not started	• Exit the program and restart the personal computer. • Reinstall MX Component.
0xF3000004	The specified LabelSpace is currently being used and cannot be opened.	• Please retry.
0xF3000005	Label data access timeout error	• Please retry. • Reduce system label definition.
0xF3000006	MUTEX acquisition error Acquisition of MUTEX to exercise exclusive control failed.	• Exit the program and restart the personal computer.
0xFF000001	MX Component trial version error Expired MX Component trial version	• Uninstall the trial version and install the commercial version, or reinstall the trial version.

*1 For the method for increasing the minimum working set size of the personal computer, refer to the following manual.
MELSEC Data Link Library Reference Manual

7.2 Error Codes Returned by CPUs, Modules, and Network Boards

This section explains the error codes returned by CPUs, modules, and network boards.

Point

Error codes may not be returned as described in ☞ Page 580 Error code list.
Check the considerations described in ☞ Page 580 Considerations for confirming error codes, and refer to ☞ Page 580 Error code list.

Error code list

If a CPU, module, or network board detected an error, any of the error codes indicated in the following table is returned.
The two upper bytes denote the error detection module, and the two lower bytes denote the error code returned by the error detection module.
For error details, refer to the manual of CPU, module, or network board corresponds to the error code.

Error code	Error detection module
0x01010000 to 0x0101FFFF *1,*2	Motion controller CPU
0x01070000 to 0x0107FFFF *1	CC-Link IE Controller Network board, MELSECNET/H board, CC-Link Ver.2 board
0x01090000 to 0x0109FFFF *1	FXCPU
0x010A0000 to 0x010AFFFF *1	QCPU (Q mode), QSCPU, RCPU, FX5CPU
0x010B0000 to 0x010BFFFF *1	Q series-compatible C24
0x010C0000 to 0x010CFFFF *1	Q series-compatible E71
0x010D0000 to 0x010DFFFF *1	PC CPU module
0x010F0000 to 0x010FFFFF *1	GOT

*1 Refer to "Point"
*2 The error codes are also described in the following section.
☞ Page 552 Error Codes Returned by Controls

Considerations for confirming error codes

The following are the considerations for confirming the error codes returned by CPU, module, and network board.

■Property setting error

If the used system configuration does not match the preset property values, the two upper bytes do not indicate the correct error detection module.
For example, when the property values of FXCPU are set to ActCpuType for QCPU (Q mode), the two upper bytes may indicate that the error detection module is FXCPU.
In such a case, perform the communication again after checking the system configuration and all preset property values.
When the ActUtlType control is used, check the settings of Communication Setup Utility.

■When accessing another station

When accessing another station, the error code of the used relayed module (CC-Link IE Controller Network, MELSECNET/H, CC-Link, Serial communication, Ethernet module) may be entered to the two lower bytes.
In such a case, the two upper bytes that indicate the error detection module may not always match the faulty module. Check the system configuration, and check the manuals of the used CPU, relayed network module, and network board.

Label specification error

The following error code will be returned if an error related to labels in the CPU occurred such as; system label Ver.2 does not exist, the information of system label Ver.2 is modified while reading/writing devices that are corresponding to the system label Ver.2.

Error code	Error description	Corrective action
0x01802001	Label information error	• When a system label is specified as a label, review the global label name assigned to the system label name in Label Utility. • Check if the global labels exist in the CPU.
0x010A4000 to 0x010A4FFF	For the errors and their corrective actions, refer to the following manual. MELSEC iQ-R CPU Module User's Manual (Application)	

7.3 HRESULT Type Error Codes

Normally, the ActiveX control and the ACT control return HRESULT type returned values.
When the custom interface is used, the returned value is equivalent to the returned value of method API.
When the dispatch interface is used, HRESULT type returned values can be acquired by performing the exception processing.
The following table shows HRESULT type returned values of ACT controls.

Returned value	Termination status	Description
S_OK	Normal termination	The function processing is normally terminated.
S_FALSE	Normal termination	The function processing (as ActiveX control) is normally terminated, but the operation (access to programmable controller) failed.
E_POINTER	Abnormal termination	The pointer passed to the function is abnormal.
E_OUTOFMEMORY	Abnormal termination	Memory reservation or object creation failed.
E_FAIL	Abnormal termination	An indefinite error occurred.

Point

If the exception processing to acquire the HRESULT type returned value is not performed, the dispatch interface displays the error dialog box on the operating system level when E_POINTER (E_XXXXX defined returned value) or the like is returned from the ACT control.

7.4 Error Codes Displayed on Event Viewer

This section explains the error codes displayed on Windows Event Viewer by MX Component.
MX Component uses MMS (system label database) Service and Label Service to manage label information.
When an error occurs in Label Service, an error description is displayed on the system log in Event Viewer.
For errors regarding Label Service of MX Component, "MXLabelService" is displayed on the source field in Event Viewer.
The following table shows the errors and their corrective actions.

Event ID	Error message	Corrective action
3	MMS Service not started.	• Wait for the completion of MMS (system label database) Service startup. If MMS Service startup does not complete, exit the program and restart the personal computer. • Reinstall MX Component.
5	MXLabelService error.(%1,%2) please perform one of the followings. -Re-start Personal computer. -Re-install the application and try again.	• Exit the program and restart the personal computer. • Reinstall MX Component.

APPENDIX

Appendix 1 Connection System of Callback Function

This section explains the connection system of the callback function for modem communication using Q series-compatible C24.

The callback function enables access from MX Component to a programmable controller CPU by the line reconnection (callback) performed from Q series-compatible C24 after the line connection from MX Component.

For details of the callback function, refer to the following manual.

Q Corresponding Serial Communication Module User's Manual (Application)

Connection system	Description	Telephone usage charge
Auto line connect	Select this when the callback function is not set to Q series-compatible C24.	Personal computer side
Auto line connect (Callback fixation)	Connect the line without using the callback function when the callback function is set to Q series-compatible C24. Only personal computers whose telephone number is registered in the buffer memory (2101H) of Q series-compatible C24 can be connected.	
Auto line connect (Callback number specification)	Connect the line without using the callback function when the callback function is set to Q series-compatible C24. Only personal computers whose telephone number is specified by MX Component can be connected.	
Callback connect (Fixation)	Callback only personal computers whose telephone number is registered in the buffer memory (2101H) of Q series-compatible C24.	Q series-compatible C24 side
Callback connect (Number specification)	Callback only personal computers whose telephone number is specified by MX Component.	
Callback request (Fixation)	Send a callback request from the selected personal computer to callback personal computers whose telephone number is registered in the buffer memory (2101H) of Q series-compatible C24. (The callback is not performed on the personal computer which is connected first.)	
Callback request (Number specification)	Send a callback request from the selected personal computer to callback personal computers whose telephone number is specified by MX Component. (The callback is not performed on the personal computer which is connected first.)	
Callback reception waiting	When connecting a line with callback request (fixation, number specification), "Callback reception waiting" is selected on the callback target personal computer to connect the line.	

Appendix 2 Programming Examples for Monitoring Word Device Status

This section explains the programming examples to monitor word devices for negative values using the EntryDeviceStatus function.

When using Visual Basic .NET

The following is a programming example to monitor D0 for -10, D1 for 0, and D2 for 10 using Visual Basic .NET.

```
Dim szDevice As String                  'Checked device list
Dim lInputData(2) As Long               'Set value
Dim lEntryData(2) As Long               'Value set to argument of EntryDeviceStatus
Dim lReturnCode As Long                 'Returned value to EntryDeviceStatus
Dim lCount As Long                      'Loop counter
'Sets D0, D1 and D2 to the checked device list.
szDevice = "D0" + vbLf + "D1" + vbLf + "D2"
'Sets the checked device value "-10" for D0.
lInputData(0) = -10
'Sets the checked device value "0" for D1.
lInputData(1) = 0
'Sets the checked device value "10" for D2.
lInputData(2) = 10
'If the set value is negative, stores "0"s into the upper 2 bytes
'for conversion into the value to be set to EntryDeviceStatus.
'Loops through the number of device points.
  For lCount = 0 To 2
      'If the set value is negative
          If lInputData(lCount) < 0 Then
            'Masks with 65535 (0000FFFF[hex]) to store "0"s into upper 2 bytes.
            lEntryData(lCount) = lInputData(lCount) And 65535
          Else
            'If the set value is positive, assigns the value as-is to lEntryData.
            lEntryData(lCount) = lInputData(lCount)
          End If
 Next
'Executes EntryDeviceStatus.
lReturnCode = AxActUtlType1.EntryDeviceStatus(szDevice, 3, 5, lEntryData(0))
```

■When lData = -1

```
Private Sub AxActUtlType1_OnDeviceStatus(ByVal szDevice As String, ByVal lData As Long, ByVal lReturnCode As Long)
Dim lCheckData As Long              'Value set to EntryDeviceStatus (value before 0s are stored into the upper 2 bytes)
'If the device value whose condition was established is a WORD type negative value (greater than 32767 (7FFF[Hex])
      If lData > 32767 Then
          'Since "0"s are stored in the upper 2 bytes, the device value is ORed with FFFF0000[Hex] to convert it into a LONG
          'type negative value.
          lCheckData = lData Or &HFFFF0000
       Else
          'If the device value whose condition was established is positive, assigns the value as-is to lCheckData.
          lCheckData = lData
      End If
End Sub
```

When using Visual C++ .NET

The following is a programming example to monitor D0 for -10, D1 for 0, and D2 for 10 using Visual C++ .NET

```
CString szDevice;                    //Checked device list
LONG lInputData[3];                  //Set value
LONG lEntryData[3];                  //Value set to argument of EntryDeviceStatus
LONG lReturnCode;                    //Returned value to EntryDeviceStatus
LONG lCount;                         //Loop counter
//Sets D0, D1 and D2 to the checked device list.
szDevice = "D0\nD1\nD2";
// Sets the checked device value "-10" for D0.
lInputData[0] = -10;
// Sets the checked device value "0" for D1.
lInputData[1] = 0;
// Sets the checked device value "10" for D2.
lInputData[2] = 10;

//If the set value is negative, stores "0"s into the upper 2 bytes
//for conversion into the value to be set to EntryDeviceStatus.
//Loops through the number of device points.
for(lCount = 0;lCount<=2; lCount++) {
      //If the set value is negative
      if (lInputData[lCount] < 0 ){
            //Masks with 65535 (0000FFFF[hex]) to store "0"s into upper 2 bytes.
            lEntryData[lCount] = lInputData[lCount] & 0x0000FFFF;
      }else{
            //If the set value is positive, assigns the value as-is to lEntryData.
            lEntryData[lCount] = lInputData[lCount];
      }
}

//Executes EntryDeviceStatus.
lReturnCode = m_Actutltype.EntryDeviceStatus(szDevice,3,5,lEntryData);
```

■When lData = -1

```
void CSampleDlg::OnDeviceStatusActutltype1(LPCTSTR szDevice, long lData, long lReturnCode)
{
LONG lCheckData;                     //Value set to EntryDeviceStatus
      //If the device value whose condition was established is a WORD type negative value
      //greater than 32767 (7FFF[Hex])
      if(lData > 0x7FFF){
            //Since "0"s are stored in the upper 2 bytes, the device value is ORed
            //with FFFF0000[Hex] to convert it into a LONG type negative value.
            lCheckData = lData | 0xFFFF0000;
       }else{
            //If the device value whose condition was established is positive,
            //assigns the value as-is to lCheckData.
            lCheckData = lData;
            }
}
```

When using Visual C# .NET

The following is a programming example to monitor D0 for -10, D1 for 0, and D2 for 10 using Visual C# .NET.

```
String szDevice;                        //Checked device list
int[] iInputData = new int[3];          //Set value
int[] iEntryData = new int[3];          //Value set to argument of EntryDeviceStatus
int iReturnCode;                        //Returned value to EntryDeviceStatus
int iCount;                             //Loop counter
//Sets D0, D1 and D2 to the checked device list.
szDevice = "D0\nD1\nD2";
// Sets the checked device value "-10" for D0.
iInputData[0] = -10;
// Sets the checked device value "0" for D1.
iInputData[1] = 0;
// Sets the checked device value "10" for D2.
iInputData[2] = 10;

//If the set value is negative, stores "0"s into the upper 2 bytes
//for conversion into the value to be set to EntryDeviceStatus.
//Loops through the number of device points.
for(iCount = 0;iCount<=2; iCount++) {
    //If the set value is negative
    if (iInputData[iCount] < 0 ){
        //Masks with 65535 (0000FFFF[hex]) to store "0"s into upper 2 bytes.
        iEntryData[iCount] = iInputData[iCount] & 0x0000FFFF;
    }else{
        //If the set value is positive, assigns the value as-is to lEntryData.
        iEntryData[iCount] = iInputData[iCount];
    }
}
axActUtlType1.ActLogicalStationNumber = 0;
iReturnCode = axActUtlType1.Open();
    //Executes EntryDeviceStatus.
    iReturnCode = axActUtlType1.EntryDeviceStatus(szDevice, 3, 5, ref iEntryData[0]);
```

Appendix 3 Time-Out Periods

In MX Component, a time-out may occur at the period different from the value set to the ActTimeOut property in the ACT control.

This section explains the time-out periods in various status.

Communication retries at time-out error occurrence

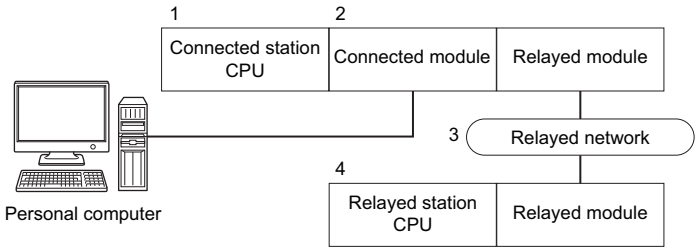
If a time-out error occurs during communication, the time-out processing may be repeated for a maximum of three times in the ACT control.

At that time, the process takes a maximum of three times longer period than the set time-out value which is a period until the time-out occurrence.

The following shows communication paths for retries at a time-out error occurrence.

Serial communication

■Configuration



■Target/non-target communication path

The following table shows the communication paths for retries at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
RCPU, RCCPU	R series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	○	○	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○	○	○	×	×
		Serial communication	○	○	○	×	×
		CC-Link	○	○	○	×	×
		Multi-drop connection	○	○	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
RCPU, RCCPU	R series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	Q series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	Q series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	○	×	×
		CC IE Control	○	○	×	○	×	×
		MELSECNET/H	○	○	×	○	×	×
		Ethernet	○	×	×	○	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	○	○
		Multi-drop connection	○	×	○	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	L series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	L series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	×	×
		Multi-drop connection	○	×	○	×	×	×

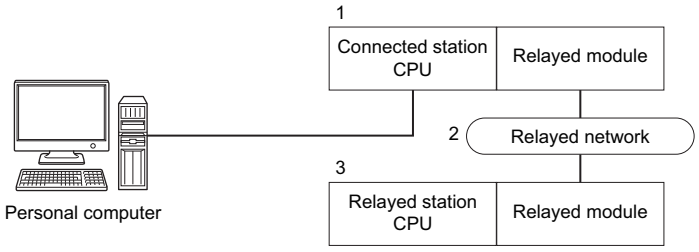
A

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FXCPU	FX extended port	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FXCPU	FX extended port	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	○
		CC-Link	×	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×	○

CPU COM communication

■Configuration



■Target/non-target communication path

The following table shows the communication paths for retries at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FX5CPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FX5CPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

A

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	×	○	○	×	×
	CC IE Control	○	×	×	○	×	×
	MELSECNET/H	○	×	×	○	×	×
	Ethernet	○	×	×	○	×	×
	Serial communication	○	×	○	×	×	×
	CC-Link	○	×	○	×	○	○

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	×	○	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○	×	○	×	×	×
	CC-Link	○	×	○	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
Q motion CPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
Q motion CPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FXCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

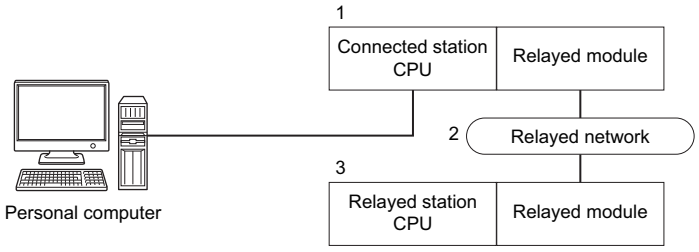
1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FXCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	○*1

*1 Only FX3G(C)CPU and FX3U(C)CPU can be accessed.

A

CPU USB communication

■Configuration



■Target/non-target communication path

The following table shows the communication paths for retries at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
RCPU, R motion CPU	CC IE TSN	×	×	×	×	×
	CC IE Field	○	○	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	○	×	○	×	×
	Serial communication	○	×	○	×	×
	CC-Link	○	○	○	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
RCPU, R motion CPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LHCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LHCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	○	×	×
	CC IE Control	○	○	×	○	×	×
	MELSECNET/H	○	○	×	○	×	×
	Ethernet	○	×	×	○	×	×
	Serial communication	○	×	○	×	×	×
	CC-Link	○	○	○	×	○	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	○	×	×
	CC IE Control	○	○	×	○	×	×
	MELSECNET/H	○	○	×	○	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	○	○	○	×	○	×

A

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○	×	○	×	×	×
	CC-Link	○	○	○	×	×	×

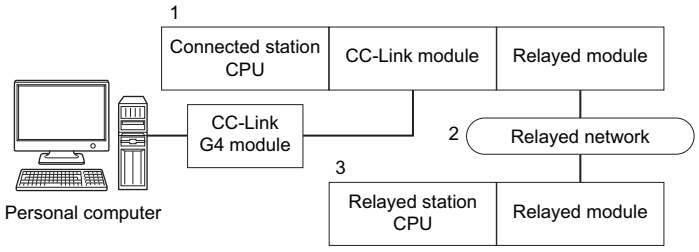
1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FXCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FXCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	○*1

*1 Only FX3G(C)CPU and FX3U(C)CPU can be accessed.

CC-Link G4 communication

■Configuration



■Target/non-target communication path

The following tables show the communication paths for retries at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

- When CC-Link G4-S3 module is Q mode and connected station CPU is QCPU (Q mode) or QCCPU

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	○	×	×
	CC IE Control	○	○	×	○	×	×
	MELSECNET/H	○	○	×	○	×	×
	Ethernet	○	×	×	○	×	×
	Serial communication	○	×	×	×	×	×
	CC-Link	○	×	×	×	○	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

A

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	○	×	×
	CC IE Control	○	○	×	○	×	×
	MELSECNET/H	○	○	×	○	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

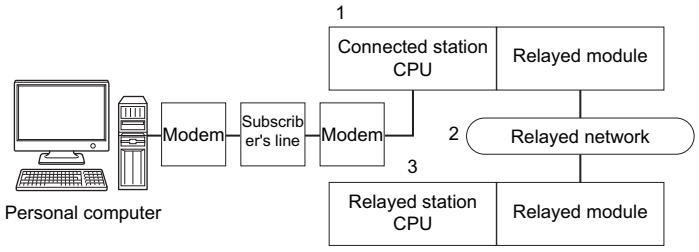
• When CC-Link G4-S3 module is Q mode and connected station CPU is LCPU

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

Modem communication (when using FXCPU)

■Configuration



■Target/non-target communication path

The following tables show the communication paths for retries at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

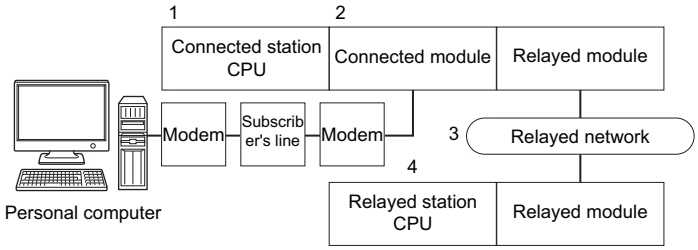
1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FXCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FXCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

A

Modem communication (when using Q series-compatible C24 or QC24N)

■Configuration



■Target/non-target communication path

The following tables show the communication paths for retries at a time-out error occurrence.

All the connected station CPUs can be the targets.

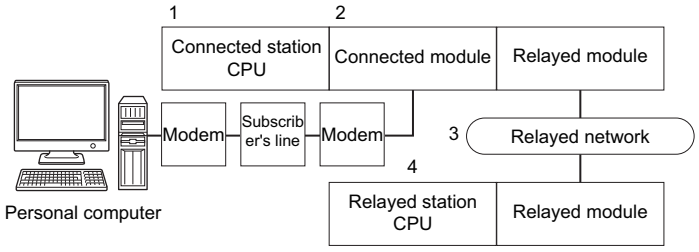
Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	Q series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection (Independent mode)	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	Q series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	○	×	×
		CC IE Control	○	○	×	○	×	×
		MELSECNET/H	○	○	×	○	×	×
		Ethernet	○	×	×	○	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	○	×
		Multi-drop connection (Independent mode)	○	×	○	×	×	×

Modem communication (when using L series-compatible C24)

■Configuration



■Target/non-target communication path

The following tables show the communication paths for retries at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	L series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection (Independent mode)	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	L series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	×	×
		Multi-drop connection (Independent mode)	○	×	○	×	×	×

A

Communication retries at receive data error occurrence

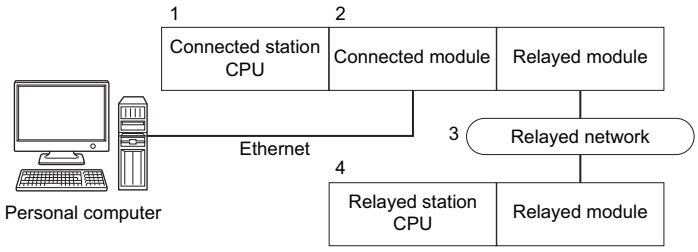
If a receive data error occurs during communication, send/receive retry processing may be repeated for a maximum of three times in the ACT control.

At that time, the process takes a maximum of three times longer period than the set time-out value which is a period until the normal or abnormal termination of the function.

The following shows communication paths for retries at a receive data error occurrence.

Ethernet communication

■Configuration



■Target/non-target communication path

The following table shows the communication paths for retries at a receive data error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
RCPU, RCCPU	R series-compatible E71, RCPU, RCCPU	CC IE TSN	×	×	×	×	×
		CC IE Field	○	○	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○	○	○	×	×
		Serial communication	○	○	○	×	×
		CC-Link	○	○	○	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
RCPU, RCCPU	R series-compatible E71, RCPU, RCCPU	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LHCPU	LHCPU	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LHCPU	LHCPU	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FX5CPU	FX5CPU	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FX5CPU	FX5CPU	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	Q series-compatible E71, Built-in Ethernet port QCPU	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	Q series-compatible E71, Built-in Ethernet port QCPU	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	○	×	×
		CC IE Control	○	○	×	○	×	×
		MELSECNET/H	○	○	×	○	×	×
		Ethernet	○	×	×	○	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	Built-in Ethernet port LCPU	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	Built-in Ethernet port LCPU	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
RCPU	CC-Link IE TSN module	CC IE TSN	○	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	○	×	×	×	×
		CC-Link	○	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
RCPU	CC-Link IE TSN module	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

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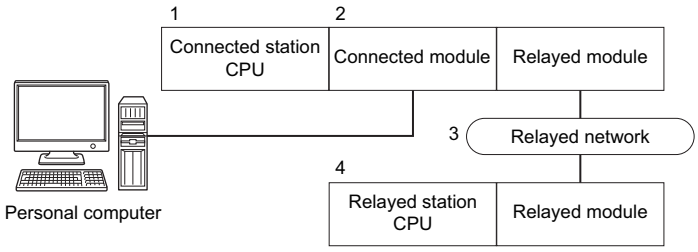
Time-out errors at fixed time in ACT control

MX Component performs communication to check whether a personal computer and a programmable controller system are connected normally before executing the Open function.
When performing the above communication, the fixed time-out period (1000 ms to 4500 ms) in the ACT control is used.
Note that if an error occurs during the above communication, an error other than the time-out error may occur.
The following shows communication paths for a time-out error occurrence at the fixed time in the ACT control.

Serial communication

■Configuration



■Target/non-target communication path

The following table shows the communication paths for a time-out error occurrence at the fixed time in the ACT control.
All the connected station CPUs can be the targets.
Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
RCPU, RCCPU	R series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	○	○	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	○	○	○	×	×
		Serial communication	○	○	○	×	×
		CC-Link	○	○	○	×	×
		Multi-drop connection	○	○	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
RCPU, RCCPU	R series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	×	×	×	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	Q series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×

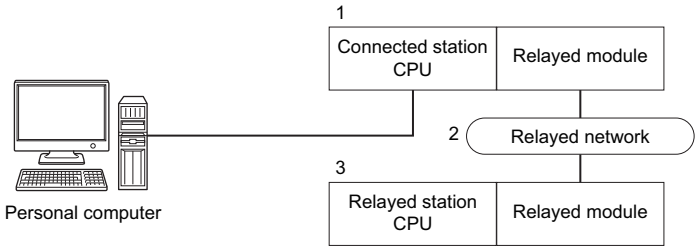
Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	Q series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	○	×	×
		CC IE Control	○	○	×	○	×	×
		MELSECNET/H	○	○	×	○	×	×
		Ethernet	○	×	×	○	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	○	○
		Multi-drop connection	○	×	○	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU				
1.CPU	2. Connected module		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	L series-compatible C24	CC IE TSN	×	×	×	×	×
		CC IE Field	×	×	×	×	×
		CC IE Control	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×
		Ethernet	×	×	×	×	×
		Serial communication	×	×	×	×	×
		CC-Link	×	×	×	×	×
		Multi-drop connection	×	×	×	×	×

Connected station		3. Relayed network	4. Relayed station CPU					
1.CPU	2. Connected module		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	L series-compatible C24	CC IE TSN	×	×	×	×	×	×
		CC IE Field	○	○	○	×	×	×
		CC IE Control	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Serial communication	○	×	○	×	×	×
		CC-Link	○	○	○	×	×	×
		Multi-drop connection	○	×	○	×	×	×

CPU COM communication

■Configuration



■Target/non-target communication path

The following table shows the communication paths for a time-out error occurrence at the fixed time in the ACT control.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FX5CPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FX5CPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode), QCCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode), QCCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	○	×	×
	CC IE Control	○	○	×	○	×	×
	MELSECNET/H	○	○	×	○	×	×
	Ethernet	○	×	×	○	×	×
	Serial communication	○	×	○	×	×	×
	CC-Link	○	○	○	×	○	○

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	○	×	○	×	×	×
	CC-Link	○	○	○	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
FXCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
FXCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	○*1

*1 Only FX3G(C)CPU and FX3U(C)CPU can be accessed.

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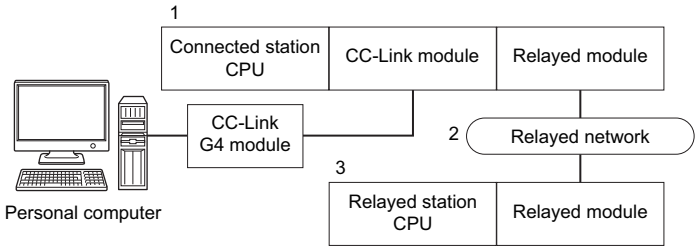
CC-Link G4 communication

■Configuration



■Target/non-target communication path

The following table shows the communication paths for a time-out error occurrence at the fixed time in the ACT control.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

Connect CC-Link G4-S3 module in Q mode.

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCPU (Q mode)	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	○	×	×
	CC IE Control	○	○	×	○	×	×
	MELSECNET/H	○	○	×	○	×	×
	Ethernet	○	×	×	○	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
QCCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
QCCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	○	○	○	○	×	×
	CC IE Control	○	○	×	○	×	×
	MELSECNET/H	○	×	○	×	○	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU				
		RCPU	RCCPU	R motion CPU	LHCPU	FX5CPU
LCPU	CC IE TSN	×	×	×	×	×
	CC IE Field	×	×	×	×	×
	CC IE Control	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×
	Ethernet	×	×	×	×	×
	Serial communication	×	×	×	×	×
	CC-Link	×	×	×	×	×

1. Connected station CPU	2. Relayed network	3. Relayed station CPU					
		QCPU (Q mode)	QCCPU	LCPU	QSCPU	Q motion CPU	FXCPU
LCPU	CC IE TSN	×	×	×	×	×	×
	CC IE Field	×	×	×	×	×	×
	CC IE Control	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Serial communication	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

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Appendix 4 Troubleshooting

This section explains the errors which may occur when using MX Component and the troubleshooting.

Error occurred in the setting for using controls in Visual Studio .NET

An error may occur in the setting for using controls.

For the corrective actions, refer to the following 'Point'.

☞ Page 37 When pasting a control to the form

☞ Page 39 When using control without pasting it to a form (Reference setting)

Link error occurred when creating a user application in Visual C++ .NET

A link error occurs if both '.NET control' (DotUtlType) and 'Act control' (ActUtlType) are used at the same time by pasting them in a single program.

The corrective actions are shown below.

Procedure for adding an application configuration file (Visual Studio 2015)

1. Select [Project] ⇨ [Add New Item].
2. Select [Installed] ⇨ [Visual C++] ⇨ [Utility].
3. Select "Configuration file (app.config)" and click the [Add] button.
4. Write the following code to the application configuration file (app.config).

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
    <startup useLegacyV2RuntimeActivationPolicy="true">
        <supportedRuntime version="v4.0"/>
    </startup>
</configuration>
```

5. Select [Project] ⇨ [Properties].
6. Select [Configuration Properties] ⇨ [Build Events] ⇨ [Post-Build Event].
7. Set "copy app.config"$(TargetPath).config"" for "Command Line".

Procedure for pasting a control (Visual Studio 2015)

For the corrective actions, refer to the following 'Point'.

☞ Page 51 When using Visual C++ .NET

The unstart error occurred during communication with GX Simulator3

If GX Simulator3 communication is performed using the setting of MX Component Version 4.15R or earlier in MX Component Version 4.16S, GX Simulator3 unstart error (0xF1000020) will occur.
The corrective actions are shown below.

When using a utility setting type control

Calculate the port number of the simulator using the average value '5500', and set the value using Communication Setup Utility again.

- PortNumber=5500 + System No. × 10 + Unit No. (For System No.=1 and Unit No.=1, 5511=5500+1 × 10+1)

When using a program setting type control

Calculate the port number of the simulator using the average value '5500', and change the setting to pass the value to the property of the control.

- PortNumber=5500 + System No. × 10 + Unit No. (For System No.=1 and Unit No.=1, 5511=5500+1 × 10+1)

A build error occurred when using a sample program created in Visual Studio 2017

If an MFC project or VC++.NET project in which a sample program created in Visual Studio 2017 is used, an error may occur.
The corrective actions are shown below.

1. Open the Visual Studio installer, and select a Windows 10 SDK (predetermined version) in the [Individual components] tab to install the Windows 10 SDK.
2. Select [Project] ⇨ [Property], and change the SDK version in "Windows SDK Version" in the [General] tab to the one installed on the personal computer.

REVISIONS

*The manual number is given on the bottom left of the back cover.

Revision date	*Manual number	Description
July 2012 to May 2019	SH(NA)-081085ENG-A to SH(NA)-081085ENG-Q	Due to the transition to the e-Manual, the details on revision have been deleted.
January 2020	SH(NA)-081085ENG-R	■Added or modified parts OPERATING CONSIDERATIONS, TERMS, Section 1.1, Section 2.1, Section 2.3, Section 2.4, Section 3.2, Section 4.2 to Section 4.10, Section 4.13, Section 4.15, Section 5.2, Section 5.3, Section 7.1, Appendix 3

Japanese manual number: SH-081083-R

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MODEL CODE: 13JW12

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