

Programmable Controller

MELSEC iQ-R
series

MELSEC iQ-R CC-Link System Master/Local
Module Function Block Reference



SAFETY PRECAUTIONS

(Read these precautions before using Mitsubishi Electric programmable controllers.)

Before using the products described under "Relevant products", please read this manual and the relevant manuals carefully and pay full attention to safety to handle the products correctly.

The precautions given in this manual are concerned with the products only. For the safety precautions of the programmable controller system, refer to the MELSEC iQ-R Module Configuration Manual.

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.

CONDITIONS OF USE FOR THE PRODUCT

- (1) MELSEC 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 ELECTRIC 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 ELECTRIC USER'S, 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 Electric 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 Electric 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 Electric representative in your region.
- (3) Mitsubishi Electric shall have no responsibility or liability for any problems involving programmable controller trouble and system trouble caused by DoS attacks, unauthorized access, computer viruses, and other cyberattacks.

INTRODUCTION

Thank you for purchasing the Mitsubishi Electric MELSEC iQ-R series programmable controllers.

This manual describes the module function blocks for the relevant products listed below.

Before using the products, please read this manual and the relevant manuals carefully and develop familiarity with the functions and performance of the MELSEC iQ-R series programmable controller to handle the products correctly.

When applying the program examples provided in this manual to an actual system, ensure the applicability and confirm that it will not cause system control problems.

Please make sure that the end users read this manual.

Relevant product

RJ61BT11

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RELEVANT MANUALS

Manual name [manual number]	Description	Available form
MELSEC iQ-R CC-Link System Master/Local Module Function Block Reference [BCN-P5999-0380] (this manual)	Function blocks used for modules of CC-Link system master/local module	e-Manual PDF
MELSEC iQ-R CC-Link System Master/Local Module User's Manual (Startup) [SH-081269ENG]	Specifications, procedures before operation, system configuration, wiring, and communication examples of the CC-Link system master/local module	Print book e-Manual PDF
MELSEC iQ-R CC-Link System Master/Local Module User's Manual (Application) [SH-081270ENG]	Functions, parameter settings, programming, troubleshooting, I/O signals, and buffer memory of the CC-Link system master/local module	Print book e-Manual 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.
- The 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
Buffer memory	Memory in an intelligent function module to store data such as setting values and monitor values. For CPU modules, it refers to memory to store data such as setting values and monitor values of the Ethernet function, or data used for data communication of the multiple CPU system function.
Data link	Communications that performed by cyclic transmission and transient transmission
Device	A memory of a CPU module to store data. Devices such as X, Y, M, D, and others are provided depending on the intended use.
Engineering tool	A tool used for setting up programmable controllers, programming, debugging, and maintenance.
Intelligent device station	A station that exchanges I/O signals (bit data) and I/O data (word data) with CC-Link IE Field Network by cyclic transmission. This station responds to a transient transmission request from another station and also issues a transient transmission request to another station.
Link scan (link scan time)	Time required for all the stations on the network to transmit data. The link scan time depends on data volume and the number of transient transmission requests.
Local station	A station that performs cyclic transmission and transient transmission with the master station and other local stations.
Master station	A station that controls the entire network. This station can perform cyclic transmission and transient transmission with all stations. Only one master station can be used in a network.
Module label	A label that represents one of memory areas (I/O signals and buffer memory areas) specific to each module in a given character string. For the module used, GX Works3 automatically generates this label, which can be used as a global label.
Remote device station	A station that exchanges I/O signals (bit data) and I/O data (word data) with another station by cyclic transmission. This station cannot perform transient transmission.
Remote I/O station	A station that exchanges I/O signals (bit data) with the master station by cyclic transmission
Slave station	A generic term for a remote I/O station, remote device station, local station, intelligent device station, and standby master station
Transient transmission	A function of communication with another station, which is used when requested by a dedicated instruction or a programming tool.

GENERIC TERMS AND ABBREVIATIONS

Unless otherwise specified, this manual uses the following generic terms and abbreviations.

Generic term/abbreviation	Description
CPU module	A generic term for the MELSEC iQ-R series CPU modules
AJ65BT-R2(N)	An abbreviation for the AJ65BT-R2(N) CC-Link system RS-232 interface module

1 OVERVIEW

The FBs listed in this reference are module FBs (for GX Works3) to use the MELSEC iQ-R CC-Link system master/local module.

1.1 Function Block (FB) List

This section lists the module FBs described in this reference. Note that this reference does not describe the FB version information which is displayed such as "_00A" at the end of FB name.

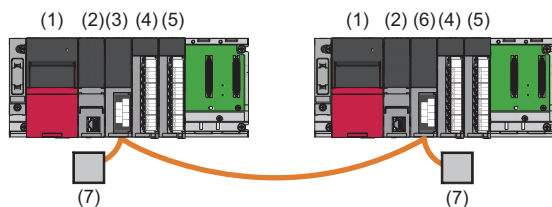
Name	Description
M+RJ61BT11_DeviceRead	Reads the specified number of points of data from the buffer memory or programmable controller device of another station.
M+RJ61BT11_DeviceWrite	Writes the specified number of points of data to the buffer memory or programmable controller device of another station.
M+RJ61BT11_Recv	Automatically performs handshake with another station and reads the specified number of points of data from the buffer memory of the station.
M+RJ61BT11_Send	Automatically performs handshake with another station and writes the specified number of points of data to the buffer memory of the station.
M+RJ61BT11_AutomaticUpdateBufferRead	Reads the specified number of points of data from the automatic update buffer of another station.
M+RJ61BT11_AutomaticUpdateBufferWrite	Writes the specified number of points of data to the automatic update buffer of another station.
M+RJ61BT11_SetParameter	Sets the network parameters in the master station.

1.2 How to Obtain

Module FBs are installed at the same time as installing GX Works3; however, the module FBs in this reference may not be installed with some versions of GX Works3. It is recommended to install the latest version of GX Works3.

1.3 System Configuration

The following shows the system configuration for using the module FBs in this reference.



- (1) Power supply module
- (2) CPU module
- (3) RJ61BT11 (master station)
- (4) RX10
- (5) RY10R2
- (6) RJ61BT11 (local station)
- (7) Terminating resistor

For the specifications of modules to be used, refer to the user's manual for each module.

2 CC-Link SYSTEM MASTER/LOCAL MODULE FB

2.1 M+RJ61BT11_DeviceRead

Name

M+RJ61BT11_DeviceRead

Overview

Item	Description
Functional overview	Reads the specified number of points of data from the buffer memory or programmable controller device of another station.
Symbol	<p>The diagram shows a rectangular box labeled 'M+RJ61BT11_DeviceRead'. On the left side, there are six input variables: (1) B: i_bEN, (2) DUT: i_stModule, (3) UW: i_uStationNumber, (4) UW: i_uAccessCode, (5) UW: i_uTargetAddress, and (6) UW: i_uReadDataLength. On the right side, there are five output variables: o_bENO: B (7), o_bOK: B (8), o_bErr: B (9), o_uErrId: UW (10), and o_uReadData: UW (11).</p>

Labels

Input arguments

No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	Off, on	On: Start the module FB. Off: Do not start the module FB.
(2)	i_stModule	Module label	Structure	—	Specify the module for which the FB is to be executed. Specify the module label of relevant modules. (Example) BT11_1
(3)	i_uStationNumber	Station number	Word [Unsigned]/ Bit String [16-bit]	0 to 64	Specify the target station number. 0 to 64: Target station number
(4)	i_uAccessCode	Access code Attribute code	Word [Unsigned]/ Bit String [16-bit]	—	Specify the read buffer memory type or device type. 📖 MELSEC iQ-R Programming Manual (Instructions, Standard Functions/ Function Blocks)
(5)	i_uTargetAddress	Buffer memory address or device number	Word [Unsigned]/ Bit String [16-bit]	—	Specify the start address of the read buffer memory or the start number of the read device.
(6)	i_uReadDataLength	Number of read points	Word [Unsigned]/ Bit String [16-bit]	1 to 480	Specify the number of read points in word.

■Output arguments

No.	Variable name	Name	Data type	Default value	Description
(7)	o_bENO	Execution status	Bit	Off	On: In execution Off: Not in execution
(8)	o_bOK	Normal completion	Bit	Off	The module FB has been processed normally when this argument is on.
(9)	o_bErr	Error completion	Bit	Off	The module FB has been processed abnormally when this argument is on.
(10)	o_uErrId	Error code	Word [Unsigned]/ Bit String [16-bit]	0	An error code is stored at error completion.
(11)	o_uReadData	Read data storage device	Word [Unsigned]/ Bit String [16-bit]	0	The read data is stored. The following cannot be specified as an argument. Specifying any of the following may cause a CPU error (2820H: Device/label/buffer memory specification incorrect). <ul style="list-style-type: none"> • Dynamically specified array elements (Example: wLabel[D0]) • Digit-specified labels (Example: K4bLabel) • Indirectly specified devices (Example: @W0) • Local devices (Example: #D0)

FB details

Item	Description	
Available devices	Target module	RJ61BT11
	CPU modules	RCPU
	Engineering tool	GX Works3
Language	Ladder diagram	
Number of basic steps	49 steps The number of steps of the FB embedded in a program depends on the CPU module used, the input/output definitions, and the options setting of GX Works3. For the options setting of GX Works3, refer to the GX Works3 Operating Manual.	
Processing	When i_bEN (execution command) is turned on, the function reads the specified number of points of data from the buffer memory or programmable controller device of another station.	
FB compilation method	Macro type	
FB operation	Pulse type (multiple-scan execution type)	
Input condition for FB_EN	None	

Item	Description
Timing chart of I/O signals	<p>[For normal completion]</p> <p>[For error completion] (same as when a module error occurs)</p> <p>(1): Error code</p>
Precautions	<ul style="list-style-type: none"> • This FB does not include error recovery processing. Please create error recovery processing separately according to the system and required operations. • This FB uses the GP.RIRD instruction. • Turn off i_bEN (execution command) after o_bOK (normal completion) or o_bErr (error completion) is turned on. By turning off i_bEN (execution command), o_bOK (normal completion) or o_bErr (error completion) is turned off and o_uErrId (error code) is cleared to 0. • If message "If the program is compiled, the number of device points in the auto device setting is too small." appears, adjust the automatic device setting. • If upgrading module FB versions updates instructions, adds a new instruction, or adds a new device, please consult your local Mitsubishi representative.

Error code

Error code	Description	Action
4000H to 4FFFH	An error occurred in a CPU module.	MELSEC iQ-R CPU Module User's Manual (Application)
B000H to BFFFH	An error occurred in a CC-Link System Master/Local Module.	MELSEC iQ-R CC-Link System Master/Local Module User's Manual (Application)

Operation parameters

No operation parameter is applicable to M+RJ61BT11_DeviceRead.

2.2 M+RJ61BT11_DeviceWrite

Name

M+RJ61BT11_DeviceWrite

Overview

Item	Description																																										
Functional overview	Writes the specified number of points of data to the buffer memory or programmable controller device of another station.																																										
Symbol	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="text-align: center;">M+RJ61BT11_DeviceWrite</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right;">(1) —</td> <td style="width: 40%;">B: i_bEN</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: left;">o_bENO: B — (8)</td> </tr> <tr> <td style="text-align: right;">(2) —</td> <td>DUT: i_stModule</td> <td></td> <td></td> <td></td> <td style="text-align: left;">o_bOK: B — (9)</td> </tr> <tr> <td style="text-align: right;">(3) —</td> <td>UW: i_uStationNumber</td> <td></td> <td></td> <td></td> <td style="text-align: left;">o_bErr: B — (10)</td> </tr> <tr> <td style="text-align: right;">(4) —</td> <td>UW: i_uAccessCode</td> <td></td> <td></td> <td style="text-align: left;">o_uErrId: UW — (11)</td> <td></td> </tr> <tr> <td style="text-align: right;">(5) —</td> <td>UW: i_uTargetAddress</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">(6) —</td> <td>UW: i_uWriteDataLength</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">(7) —</td> <td>UW: i_uWriteData</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> </div>	(1) —	B: i_bEN				o_bENO: B — (8)	(2) —	DUT: i_stModule				o_bOK: B — (9)	(3) —	UW: i_uStationNumber				o_bErr: B — (10)	(4) —	UW: i_uAccessCode			o_uErrId: UW — (11)		(5) —	UW: i_uTargetAddress					(6) —	UW: i_uWriteDataLength					(7) —	UW: i_uWriteData				
(1) —	B: i_bEN				o_bENO: B — (8)																																						
(2) —	DUT: i_stModule				o_bOK: B — (9)																																						
(3) —	UW: i_uStationNumber				o_bErr: B — (10)																																						
(4) —	UW: i_uAccessCode			o_uErrId: UW — (11)																																							
(5) —	UW: i_uTargetAddress																																										
(6) —	UW: i_uWriteDataLength																																										
(7) —	UW: i_uWriteData																																										

Labels

Input arguments

No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	Off, on	On: Start the module FB. Off: Do not start the module FB.
(2)	i_stModule	Module label	Structure	—	Specify the module for which the FB is to be executed. Specify the module label of relevant modules. (Example) BT11_1
(3)	i_uStationNumber	Station number	Word [Unsigned]/ Bit String [16-bit]	0 to 64	Specify the target station number. 0 to 64: Target station number
(4)	i_uAccessCode	Access code Attribute code	Word [Unsigned]/ Bit String [16-bit]	—	Specify the write buffer memory type or device type. ☞ MELSEC iQ-R Programming Manual (Instructions, Standard Functions/ Function Blocks)
(5)	i_uTargetAddress	Buffer memory address or device number	Word [Unsigned]/ Bit String [16-bit]	—	Specify the start address of the write buffer memory or the start number of the write device.
(6)	i_uWriteDataLength	Number of write points	Word [Unsigned]/ Bit String [16-bit]	1 to 480	Specify the number of write points in word.
(7)	i_uWriteData	Write data Storage device	Word [Unsigned]/ Bit String [16-bit]	—	Specify the start address of the device containing the write data. The following cannot be specified as an argument. Specifying any of the following may cause a CPU error (2820H: Device/label/buffer memory specification incorrect). • Dynamically specified array elements (Example: wLabel[D0]) • Digit-specified labels (Example: K4bLabel) • Indirectly specified devices (Example: @W0) • Local devices (Example: #D0)



■Output arguments

No.	Variable name	Name	Data type	Default value	Description
(8)	o_bENO	Execution status	Bit	Off	On: In execution Off: Not in execution
(9)	o_bOK	Normal completion	Bit	Off	The module FB has been processed normally when this argument is on.
(10)	o_bErr	Error completion	Bit	Off	The module FB has been processed abnormally when this argument is on.
(11)	o_uErrId	Error code	Word	0	An error code is stored at error completion.

FB details

Item	Description	
Available devices	Target module	RJ61BT11
	CPU modules	RCPU
	Engineering tool	GX Works3
Language	Ladder diagram	
Number of basic steps	49 steps The number of steps of the FB embedded in a program depends on the CPU module used, the input/output definitions, and the options setting of GX Works3. For the options setting of GX Works3, refer to the GX Works3 Operating Manual.	
Processing	When i_bEN (execution command) is turned on, this function writes the specified number of points of data to the buffer memory or programmable controller device of another station.	
FB compilation method	Macro type	
FB operation	Pulse execution type (multiple-scan execution type)	
Input condition for FB_EN	None	
Timing chart of I/O signals	<p>[For normal completion]</p> <p>[For error completion] (same as when a module error occurs)</p> <p>(1): Error code</p>	
Precautions	<ul style="list-style-type: none"> This FB does not include error recovery processing. Please create error recovery processing separately according to the system and required operations. This FB uses the GP.RIWT instruction. Turn off i_bEN (execution command) after o_bOK (normal completion) or o_bErr (error completion) is turned on. By turning off i_bEN (execution command), o_bOK (normal completion) or o_bErr (error completion) is turned off and o_uErrId (error code) is cleared to 0. If message "If the program is compiled, the number of device points in the auto device setting is too small." appears, adjust the automatic device setting. If upgrading module FB versions updates instructions, adds a new instruction, or adds a new device, please consult your local Mitsubishi representative. 	

Error code

Error code	Description	Action
4000H to 4FFFH	An error occurred in a CPU module.	 MELSEC iQ-R CPU Module User's Manual (Application)
B000H to BFFFH	An error occurred in a CC-Link System Master/Local Module.	 MELSEC iQ-R CC-Link System Master/Local Module User's Manual (Application)

Operation parameters

No operation parameter is applicable to M+RJ61BT11_DeviceWrite.

2.3 M+RJ61BT11_Recv

Name

M+RJ61BT11_Recv

Overview

Item	Description
Functional overview	Automatically performs handshake with another station and reads the specified number of points of data from the buffer memory of the station. This function is available for modules, such as AJ65BT-R2(N), which have interlock signals for handshake.
Symbol	<p>The diagram shows a box labeled 'M+RJ61BT11_Recv'. On the left side, there are six input variables: (1) B: i_bEN, (2) DUT: i_stModule, (3) UW: i_uStationNumber, (4) UW: i_uTargetAddress, (5) UW: i_uReadDataLength, and (6) UW: i_uInterLockData. On the right side, there are six output variables: o_bENO: B (7), o_bOK: B (8), o_bErr: B (9), o_uErrId: UW (10), and o_uReadData: UW (11).</p>

Labels

Input arguments

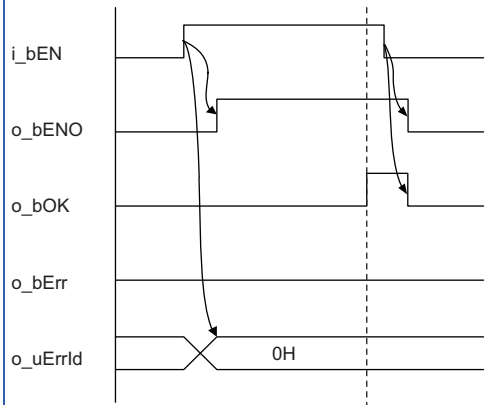
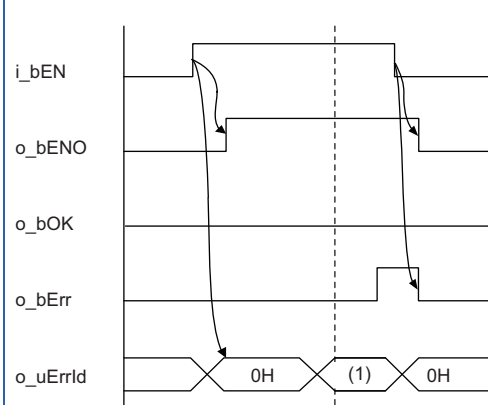
No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	Off, on	On: Start the module FB. Off: Do not start the module FB.
(2)	i_stModule	Module label	Structure	—	Specify the module for which the FB is to be executed. Specify the module label of relevant modules. (Example) BT11_1
(3)	i_uStationNumber	Station number	Word [Unsigned]/ Bit String [16-bit]	1 to 64	Specify the target station number. 1 to 64: Target station number
(4)	i_uTargetAddress	Buffer memory address	Word [Unsigned]/ Bit String [16-bit]	—	Specify the start address of the read buffer memory.
(5)	i_uReadDataLength	Number of read points	Word [Unsigned]/ Bit String [16-bit]	1 to 480	Specify the number of read points in word.
(6)	i_uInterLockData	Interlock signal Storage device	Word [Unsigned]/ Bit String [16-bit] (0..2)	—	Specify the start address of the device containing the interlock signal. When the start address is specified using the label, use "ARRAY" for the data type.

■Output arguments



No.	Variable name	Name	Data type	Default value	Description
(7)	o_bENO	Execution status	Bit	Off	On: In execution Off: Not in execution
(8)	o_bOK	Normal completion	Bit	Off	The module FB has been processed normally when this argument is on.
(9)	o_bErr	Error completion	Bit	Off	The module FB has been processed abnormally when this argument is on.
(10)	o_uErrId	Error code	Word [Unsigned]/ Bit String [16-bit]	0	An error code is stored at error completion.
(11)	o_uReadData	Read data storage device	Word [Unsigned]/ Bit String [16-bit]	0	The read data is stored. The following cannot be specified as an argument. Specifying any of the following may cause a CPU error (2820H: Device/label/buffer memory specification incorrect). <ul style="list-style-type: none"> • Dynamically specified array elements (Example: wLabel[D0]) • Digit-specified labels (Example: K4bLabel) • Indirectly specified devices (Example: @W0) • Local devices (Example: #D0)

FB details

Item	Description	
Available devices	Target module	RJ61BT11
	CPU modules	RCPU
	Engineering tool	GX Works3
Language	Ladder diagram	
Number of basic steps	51 steps The number of steps of the FB embedded in a program depends on the CPU module used, the input/output definitions, and the options setting of GX Works3. For the options setting of GX Works3, refer to the GX Works3 Operating Manual.	
Processing	When i_bEN (execution command) is turned on, this function performs handshake with another station and reads the specified number of points of data from the buffer memory of the station.	
FB compilation method	Macro type	
FB operation	Pulse execution type (multiple-scan execution type)	
Input condition for FB_EN	None	

Item	Description
Timing chart of I/O signals	<p>[For normal completion]</p>  <p>[For error completion] (same as when a module error occurs)</p>  <p>(1): Error code</p>
Precautions	<ul style="list-style-type: none"> • This FB does not include error recovery processing. Please create error recovery processing separately according to the system and required operations. • This FB uses the GP.RIRCV instruction. • Turn off i_bEN (execution command) after o_bOK (normal completion) or o_bErr (error completion) is turned on. By turning off i_bEN (execution command), o_bOK (normal completion) or o_bErr (error completion) is turned off and o_uErrId (error code) is cleared to 0. • If message "If the program is compiled, the number of device points in the auto device setting is too small." appears, adjust the automatic device setting. • If upgrading module FB versions updates instructions, adds a new instruction, or adds a new device, please consult your local Mitsubishi representative.

Error code

Error code	Description	Action
4000H to 4FFFH	An error occurred in a CPU module.	 MELSEC iQ-R CPU Module User's Manual (Application)
B000H to BFFFH	An error occurred in a CC-Link System Master/Local Module.	 MELSEC iQ-R CC-Link System Master/Local Module User's Manual (Application)

Operation parameters

No operation parameter is applicable to M+RJ61BT11_Recv.

2.4 M+RJ61BT11_Send

Name

M+RJ61BT11_Send

Overview

Item	Description																																										
Functional overview	Automatically performs handshake with another station and writes the specified number of points of data to the buffer memory of the station. This function is available for modules, such as AJ65BT-R2(N), which have interlock signals for handshake.																																										
Symbol	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="text-align: center;">M+RJ61BT11_Send</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: right;">(1) —</td> <td style="width: 40%;">B: i_bEN</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: left;">o_bENO: B</td> <td style="width: 5%;"></td> <td style="width: 5%; text-align: left;">(8)</td> </tr> <tr> <td>(2) —</td> <td>DUT: i_stModule</td> <td></td> <td>o_bOK: B</td> <td></td> <td>(9)</td> </tr> <tr> <td>(3) —</td> <td>UW: i_uStationNumber</td> <td></td> <td>o_bErr: B</td> <td></td> <td>(10)</td> </tr> <tr> <td>(4) —</td> <td>UW: i_uTargetAddress</td> <td></td> <td>o_uErrId: UW</td> <td></td> <td>(11)</td> </tr> <tr> <td>(5) —</td> <td>UW: i_uWriteDataLength</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(6) —</td> <td>UW: i_uWriteData</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(7) —</td> <td>UW: i_uInterLockData</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> </div>	(1) —	B: i_bEN		o_bENO: B		(8)	(2) —	DUT: i_stModule		o_bOK: B		(9)	(3) —	UW: i_uStationNumber		o_bErr: B		(10)	(4) —	UW: i_uTargetAddress		o_uErrId: UW		(11)	(5) —	UW: i_uWriteDataLength					(6) —	UW: i_uWriteData					(7) —	UW: i_uInterLockData				
(1) —	B: i_bEN		o_bENO: B		(8)																																						
(2) —	DUT: i_stModule		o_bOK: B		(9)																																						
(3) —	UW: i_uStationNumber		o_bErr: B		(10)																																						
(4) —	UW: i_uTargetAddress		o_uErrId: UW		(11)																																						
(5) —	UW: i_uWriteDataLength																																										
(6) —	UW: i_uWriteData																																										
(7) —	UW: i_uInterLockData																																										

Labels

Input arguments

No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	Off, on	On: Start the module FB. Off: Do not start the module FB.
(2)	i_stModule	Module label	Structure	—	Specify the module for which the FB is to be executed. Specify the module label of relevant modules. (Example) BT11_1
(3)	i_uStationNumber	Station number	Word [Unsigned]/ Bit String [16-bit]	1 to 64	Specify the target station number. 1 to 64: Target station number
(4)	i_uTargetAddress	Buffer memory address	Word [Unsigned]/ Bit String [16-bit]	—	Specify the start address of the write buffer memory.
(5)	i_uWriteDataLength	Number of write points	Word [Unsigned]/ Bit String [16-bit]	1 to 480	Specify the number of write points in word.
(6)	i_uWriteData	Write data Storage device	Word [Unsigned]/ Bit String [16-bit]	—	Specify the start address of the device containing the write data. The following cannot be specified as an argument. Specifying any of the following may cause a CPU error (2820H: Device/label/buffer memory specification incorrect). <ul style="list-style-type: none"> • Dynamically specified array elements (Example: wLabel[D0]) • Digit-specified labels (Example: K4bLabel) • Indirectly specified devices (Example: @W0) • Local devices (Example: #D0)
(7)	i_uInterLockData	Interlock signal Storage device	Word [Unsigned]/ Bit String [16-bit] (0..2)	—	Specify the start address of the device containing the interlock signal. When the start address is specified using the label, use "ARRAY" for the data type.

■ Output arguments

No.	Variable name	Name	Data type	Default value	Description
(8)	o_bENO	Execution status	Bit	Off	On: In execution Off: Not in execution
(9)	o_bOK	Normal completion	Bit	Off	The module FB has been processed normally when this argument is on.
(10)	o_bErr	Error completion	Bit	Off	The module FB has been processed abnormally when this argument is on.
(11)	o_uErrId	Error code	Word [Unsigned]/ Bit String [16-bit]	0	An error code is stored at error completion.

FB details

Item	Description	
Available devices	Target module	RJ61BT11
	CPU modules	RCPU
	Engineering tool	GX Works3
Language	Ladder diagram	
Number of basic steps	51 steps The number of steps of the FB embedded in a program depends on the CPU module used, the input/output definitions, and the options setting of GX Works3. For the options setting of GX Works3, refer to the GX Works3 Operating Manual.	
Processing	When i_bEN (execution command) is turned on, this function performs handshake with another station and writes the specified number of points of data to the buffer memory of the station.	
FB compilation method	Macro type	
FB operation	Pulse execution type (multiple-scan execution type)	
Input condition for FB_EN	None	

Item	Description
Timing chart of I/O signals	<p>[For normal completion]</p> <p>[For error completion] (same as when a module error occurs)</p> <p>(1): Error code</p>
Precautions	<ul style="list-style-type: none"> • This FB does not include error recovery processing. Please create error recovery processing separately according to the system and required operations. • This FB uses the GP.RISEND instruction. • Turn off i_bEN (execution command) after o_bOK (normal completion) or o_bErr (error completion) is turned on. By turning off i_bEN (execution command), o_bOK (normal completion) or o_bErr (error completion) is turned off and o_uErrId (error code) is cleared to 0. • If message "If the program is compiled, the number of device points in the auto device setting is too small." appears, adjust the automatic device setting. • If upgrading module FB versions updates instructions, adds a new instruction, or adds a new device, please consult your local Mitsubishi representative.

Error code

Error code	Description	Action
4000H to 4FFFH	An error occurred in a CPU module.	MELSEC iQ-R CPU Module User's Manual (Application)
B000H to BFFFH	An error occurred in a CC-Link System Master/Local Module.	MELSEC iQ-R CC-Link System Master/Local Module User's Manual (Application)

Operation parameters

No operation parameter is applicable to M+RJ61BT11_Send.

FB details

Item	Description
Available devices	Target module RJ61BT11
	CPU modules RCPU
	Engineering tool GX Works3
Language	Ladder diagram
Number of basic steps	23 steps The number of steps of the FB embedded in a program depends on the CPU module used, the input/output definitions, and the options setting of GX Works3. For the options setting of GX Works3, refer to the GX Works3 Operating Manual.
Processing	When i_bEN (execution command) is turned on, this function reads the specified number of points of data from the automatic update buffer of another station.
FB compilation method	Macro type
FB operation	Pulse execution type (multiple-scan execution type)
Input condition for FB_EN	None
Timing chart of I/O signals	<p>[For normal completion]</p> <p>The timing chart shows three signals: i_bEN, o_bENO, and o_bOK. i_bEN is a pulse that starts the execution. o_bENO is a pulse that occurs during the execution. o_bOK is a pulse that occurs at the end of the execution. A vertical dashed line indicates the end of the execution period.</p>
Precautions	<ul style="list-style-type: none"> • This FB does not include error recovery processing. Please create error recovery processing separately according to the system and required operations. • This FB uses the GP.RIFR instruction. • Turn off i_bEN (execution command) after o_bOK (normal completion) is turned on. By turning off i_bEN (execution command), o_bOK (normal completion) is turned off. • If message "If the program is compiled, the number of device points in the auto device setting is too small." appears, adjust the automatic device setting. • If upgrading module FB versions updates instructions, adds a new instruction, or adds a new device, please consult your local Mitsubishi representative.

Operation parameters

No operation parameter is applicable to M+RJ61BT11_AutomaticUpdateBufferRead.

2.6 M+RJ61BT11_AutomaticUpdateBufferWrite

Name

M+RJ61BT11_AutomaticUpdateBufferWrite

Overview

Item	Description
Functional overview	Writes the specified number of points of data to the automatic update buffer of another station. This function available for modules, such as AJ65BT-R2(N), which have an automatic update buffer.
Symbol	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 10px auto;"> <p style="text-align: center;">M+RJ61BT11_AutomaticUpdateBufferWrite</p> <p>(1) — B: i_bEN o_bENO: B — (7)</p> <p>(2) — DUT: i_stModule o_bOK: B — (8)</p> <p>(3) — UW: i_uStationNumber</p> <p>(4) — UW: i_uTargetAddress</p> <p>(5) — UW: i_uWriteData</p> <p>(6) — UW: i_uWriteDataLength</p> </div>

Labels

Input arguments

No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	Off, on	On: Start the module FB. Off: Do not start the module FB.
(2)	i_stModule	Module label	Structure	—	Specify the module for which the FB is to be executed. Specify the module label of relevant modules. (Example) BT11_1
(3)	i_uStationNumber	Target station number/random access buffer specification	Word [Unsigned]/ Bit String [16-bit]	1 to 64, FFH	Specify the target station number. 1 to 64: Target station number FFH: Random access buffer specification
(4)	i_uTargetAddress	Automatic update buffer or random access buffer address	Word [Unsigned]/ Bit String [16-bit]	—	Specify the offset value from the start of the automatic update buffer assigned to the target station or random access buffer.
(5)	i_uWriteData	Write data Storage device	Word [Unsigned]/ Bit String [16-bit]	—	Specify the start address of the device containing the write data. The following cannot be specified as an argument. Specifying any of the following may cause a CPU error (2820H: Device/label/buffer memory specification incorrect). <ul style="list-style-type: none"> Dynamically specified array elements (Example: wLabel[D0]) Digit-specified labels (Example: K4bLabel) Indirectly specified devices (Example: @W0) Local devices (Example: #D0)
(6)	i_uWriteDataLength	Number of write points	Word [Unsigned]/ Bit String [16-bit]	1 to 4096	Specify the start address of the device containing the write data.

Output arguments

No.	Variable name	Name	Data type	Default value	Description
(7)	o_bENO	Execution status	Bit	Off	On: In execution Off: Not in execution
(8)	o_bOK	Normal completion	Bit	Off	The module FB has been processed normally when this argument is on.

FB details

Item	Description	
Available devices	Target module	RJ61BT11
	CPU modules	RCPU
	Engineering tool	GX Works3
Language	Ladder diagram	
Number of basic steps	23 steps The number of steps of the FB embedded in a program depends on the CPU module used, the input/output definitions, and the options setting of GX Works3. For the options setting of GX Works3, refer to the GX Works3 Operating Manual.	
Processing	When i_bEN (execution command) is turned on, this function writes the specified number of points of data to the automatic update buffer of another station.	
FB compilation method	Macro type	
FB operation	Pulse type (multiple-scan execution type)	
Input condition for FB_EN	None	
Timing chart of I/O signals	<p>[For normal completion]</p> <p>The timing chart shows three signals: i_bEN, o_bENO, and o_bOK. i_bEN is a pulse that starts the process. o_bENO is a pulse that occurs during the process. o_bOK is a pulse that occurs at the end of the process. A vertical dashed line indicates the end of the process.</p>	
Precautions	<ul style="list-style-type: none"> • This FB does not include error recovery processing. Please create error recovery processing separately according to the system and required operations. • This FB uses the GP.RITO instruction. • Turn off i_bEN (execution command) after o_bOK (normal completion) is turned on. By turning off i_bEN (execution command), o_bOK (normal completion) is turned off. • If message "If the program is compiled, the number of device points in the auto device setting is too small." appears, adjust the automatic device setting. • If upgrading module FB versions updates instructions, adds a new instruction, or adds a new device, please consult your local Mitsubishi representative. 	

Operation parameters

No operation parameter is applicable to M+RJ61BT11_AutomaticUpdateBufferWrite.

2.7 M+RJ61BT11_SetParameter

Name

M+RJ61BT11_SetParameter

Overview

Item	Description																														
Functional overview	Sets the network parameters in the master station.																														
Symbol	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="text-align: center;">M+RJ61BT11_SetParameter</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: right;">(1) —</td> <td style="width: 55%;">B: i_bEN</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: left;">o_bENO: B</td> <td style="width: 5%; text-align: right;">(6)</td> </tr> <tr> <td>(2) —</td> <td>DUT: i_stModule</td> <td></td> <td></td> <td>o_bOK: B</td> <td>(7)</td> </tr> <tr> <td>(3) —</td> <td>UW: i_uSettingFlag</td> <td></td> <td></td> <td>o_bErr: B</td> <td>(8)</td> </tr> <tr> <td>(4) —</td> <td>UW: i_uTotalConnectedNumber</td> <td></td> <td></td> <td>o_uErrId: UW</td> <td>(9)</td> </tr> <tr> <td>(5) —</td> <td>UW: i_uSlaveStationSettingData</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; margin-top: 10px;"> pb_uRetryCount pb_uAutomaticReconnectionStationCount pb_uPlcDownSelect pb_uScanModeSetting pb_uReservedStationSpecificationData pb_uErrorInvalidStationSpecificationData pb_uAutomaticRefreshBufferSize </p> </div>	(1) —	B: i_bEN			o_bENO: B	(6)	(2) —	DUT: i_stModule			o_bOK: B	(7)	(3) —	UW: i_uSettingFlag			o_bErr: B	(8)	(4) —	UW: i_uTotalConnectedNumber			o_uErrId: UW	(9)	(5) —	UW: i_uSlaveStationSettingData				
(1) —	B: i_bEN			o_bENO: B	(6)																										
(2) —	DUT: i_stModule			o_bOK: B	(7)																										
(3) —	UW: i_uSettingFlag			o_bErr: B	(8)																										
(4) —	UW: i_uTotalConnectedNumber			o_uErrId: UW	(9)																										
(5) —	UW: i_uSlaveStationSettingData																														

Labels

Input arguments

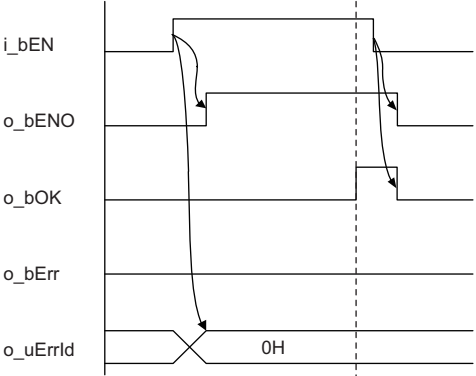
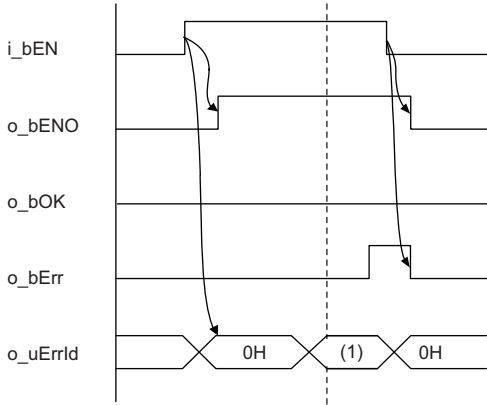
No.	Variable name	Name	Data type	Range	Description																				
(1)	i_bEN	Execution command	Bit	Off, on	On: Start the module FB. Off: Do not start the module FB.																				
(2)	i_stModule	Module label	Structure	—	Specify the module for which the FB is to be executed. Specify the module label of relevant modules. (Example) BT11_1																				
(3)	i_uSettingFlag	Setting flag	Word [Unsigned]/ Bit String [16-bit]	—	Specify whether each setting data is valid or invalid. • 0: Invalid (The default value is used.) • 1: Valid bF bE bD bC bB bA b9 b8 b7 b6 b5 b4 b3 b2 b1 b0 <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> </tr> </table> b0: Slave station setting data b1: Reserved station specification data b2: Error invalid station specification data b3: Automatic update buffer assignment data b4 to bB: Fixed to 0 bC: Setting of the input data from data link faulty bD: Output data setting when CPU STOP bE and bF: Fixed to 0																				
(4)	i_uTotalConnectedNumber	Total number of connected modules/stations	Word [Unsigned]/ Bit String [16-bit]	1 to 64	Specify the number of slave stations connected.																				

No.	Variable name	Name	Data type	Range	Description			
(5)	i_uSlaveStationSettingData	Slave station setting data	Word [Unsigned]/ Bit String [16-bit] (0..63)	—	<p>Specify the start number of the device for storing the slave station setting data. (Default value: 0)</p> <p>When the start address is specified using the label, use "ARRAY" for the data type.</p> <p>Set the station type, the number of occupied stations, and the station number as follows.</p> <p>bF ... bC bB ... b8 b7 ... b0</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; height: 15px;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> <p>b0 to b7: Station number b8 to bB: Number of occupied stations bC to bF: Station type</p> <hr/> <p>Station number setting: 1 to 64</p> <hr/> <p>Number of occupied stations setting</p> <ul style="list-style-type: none"> • 1 station: 1 • 2 stations: 2 • 3 stations: 3 • 4 stations: 4 <hr/> <p>Station type setting</p> <ul style="list-style-type: none"> • Ver.1-compatible remote I/O station: 0 • Ver.1-compatible remote device station: 1 • Ver.1-compatible intelligent device station: 2 • Ver.2-compatible remote device station (single): 5 • Ver.2-compatible intelligent device station (single): 6 • Ver.2-compatible remote device station (double): 8 • Ver.2-compatible intelligent device station (double): 9 • Ver.2-compatible remote device station (quadruple): 11 • Ver.2-compatible intelligent device station (quadruple): 12 • Ver.2-compatible remote device station (octuple): 14 • Ver.2-compatible intelligent device station (octuple): 15 			


■Output arguments

No.	Variable name	Name	Data type	Default value	Description
(6)	o_bENO	Execution status	Bit	Off	On: In execution Off: Not in execution
(7)	o_bOK	Normal completion	Bit	Off	Turned on for one scan at normal completion.
(8)	o_bErr	Error completion	Bit	Off	Turned on for one scan at error completion.
(9)	o_uErr_Id	Error code	Word	0	An error code is stored at error completion.

FB details

Item	Description	
Available devices	Target module	RJ61BT11
	CPU modules	RCPU
	Engineering tool	GX Works3
Language	Ladder diagram	
Number of basic steps	112 steps The number of steps of the FB embedded in a program depends on the CPU module used, the input/output definitions, and the options setting of GX Works3. For the options setting of GX Works3, refer to the GX Works3 Operating Manual.	
Processing	When i_bEN (execution command) is turned on, this function, this function sets the network parameters in the master station.	
FB compilation method	Macro type	
FB operation	Pulse type (multiple-scan execution type)	
Input condition for FB_EN	None	
Timing chart of I/O signals	<p>[For normal completion]</p>  <p>[For error completion] (same as when a module error occurs)</p>  <p>(1): Error code</p>	
Precautions	<ul style="list-style-type: none"> This FB does not include error recovery processing. Please create error recovery processing separately according to the system and required operations. This FB uses the GP.RLPASET instruction. Turn off i_bEN (execution command) after o_bOK (normal completion) or o_bErr (error completion) is turned on. By turning off i_bEN (execution command), o_bOK (normal completion) or o_bErr (error completion) is turned off and o_uErrId (error code) is cleared to 0. If message "If the program is compiled, the number of device points in the auto device setting is too small." appears, adjust the automatic device setting. If upgrading module FB versions updates instructions, adds a new instruction, or adds a new device, please consult your local Mitsubishi representative. 	

Error code

Error code	Description	Action
B000H to BFFFH	An error occurred in a CC-Link System Master/Local Module.	 MELSEC iQ-R CC-Link System Master/Local Module User's Manual (Application)

Operation parameters

Name	Variable name	Data type	Range	Default value	Description																																																																																
Number of retries	pb_uRetryCount	Word [Unsigned]/ Bit String [16-bit]	1 to 7	3	Set the number of retries to be performed for a communication error station.																																																																																
Number of automatic return modules	pb_uAutomaticReconnectionStationCount	Word [Unsigned]/ Bit String [16-bit]	1 to 10	1	Specify the number of slave stations that can return by one link scan.																																																																																
Data link setting when CPU is down	pb_uPlcDownSelect	Word [Unsigned]/ Bit String [16-bit]	0, 1	0	Specify whether to stop or continue the data link if the CPU module is stopped with an error. • 0: Stops the data link. • 1: Continues the data link.																																																																																
Scan mode setting	pb_uScanModeSetting	Word [Unsigned]/ Bit String [16-bit]	0, 1	0	Set the link scan mode. • 0: Link scan is performed asynchronously with a sequence scan. • 1: Link scan is performed synchronously with a sequence scan.																																																																																
Reserved station specification data	pb_uReservedStationSpecificationData	Word [Unsigned]/ Bit String [16-bit] (0..3)	0000H to FFFFH	0	Specify the reserved station. • 0: Not specified • 1: Specified • 1 to 64 in the table indicate station numbers. <table border="1"> <tr><td>bF</td><td>bE</td><td>bD</td><td>bC</td><td>bB</td><td>bA</td><td>b9</td><td>b8</td><td>b7</td><td>b6</td><td>b5</td><td>b4</td><td>b3</td><td>b2</td><td>b1</td><td>b0</td></tr> <tr>+0<td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr>+1<td>32</td><td>31</td><td>30</td><td>29</td><td>28</td><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td><td>17</td></tr> <tr>+2<td>48</td><td>47</td><td>46</td><td>45</td><td>44</td><td>43</td><td>42</td><td>41</td><td>40</td><td>39</td><td>38</td><td>37</td><td>36</td><td>35</td><td>34</td><td>33</td></tr> <tr>+3<td>64</td><td>63</td><td>62</td><td>61</td><td>60</td><td>59</td><td>58</td><td>57</td><td>56</td><td>55</td><td>54</td><td>53</td><td>52</td><td>51</td><td>50</td><td>49</td></tr> </table> For a slave station which occupies two or more stations, specify only the start number.	bF	bE	bD	bC	bB	bA	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49
bF	bE	bD	bC	bB	bA	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0																																																																						
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																																																																						
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17																																																																						
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33																																																																						
64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49																																																																						
Error invalid station specification data	pb_uErrorInvalidStationSpecificationData	Word [Unsigned]/ Bit String [16-bit] (0..3)	0000H to FFFFH	0	Specify the error invalid station. • 0: Not specified • 1: Specified • 1 to 64 in the table indicate station numbers. <table border="1"> <tr><td>bF</td><td>bE</td><td>bD</td><td>bC</td><td>bB</td><td>bA</td><td>b9</td><td>b8</td><td>b7</td><td>b6</td><td>b5</td><td>b4</td><td>b3</td><td>b2</td><td>b1</td><td>b0</td></tr> <tr>+0<td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr>+1<td>32</td><td>31</td><td>30</td><td>29</td><td>28</td><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td><td>17</td></tr> <tr>+2<td>48</td><td>47</td><td>46</td><td>45</td><td>44</td><td>43</td><td>42</td><td>41</td><td>40</td><td>39</td><td>38</td><td>37</td><td>36</td><td>35</td><td>34</td><td>33</td></tr> <tr>+3<td>64</td><td>63</td><td>62</td><td>61</td><td>60</td><td>59</td><td>58</td><td>57</td><td>56</td><td>55</td><td>54</td><td>53</td><td>52</td><td>51</td><td>50</td><td>49</td></tr> </table> For a slave station which occupies two or more stations, specify only the start number. If both the reserved and error invalid stations are specified for the same station, the reserved station specification will take priority.	bF	bE	bD	bC	bB	bA	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49
bF	bE	bD	bC	bB	bA	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0																																																																						
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																																																																						
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17																																																																						
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33																																																																						
64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49																																																																						
Automatic update buffer assignment data	pb_uAutomaticRefreshBufferSize	Word [Unsigned]/ Bit String [16-bit] (0..25)	0H, 80H to 1000H	80H	Specify the assigned buffer memory size (words) that is used for the transient transmission with the automatic update buffer that is performed to the local or intelligent device station. • 0: Not specified • 1: Specified For the slave stations that have been set as intelligent device stations in the slave station setting data, set them in ascending order of station numbers. +0: Automatic update buffer size (1st) +1: Automatic update buffer size (2nd) +2: Automatic update buffer size (3rd) : +23: Automatic update buffer size (24th) +24: Automatic update buffer size (25th) +25: Automatic update buffer size (26th) Assuming that the total size of the automatic update buffer is within 1000H (4096) words, specify the required size for each intelligent device station.																																																																																

INSTRUCTION INDEX

M

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REVISIONS

*The manual number is given on the bottom left of the back cover.

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