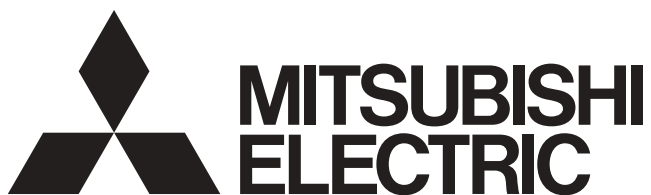


Industrial automation

Elincom Group

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PROGRAMMABLE CONTROLLERS

MELSEC iQ-F
series

MELSEC iQ-F

FX5 CC-Link IE Function Block Reference

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1 FUNCTION BLOCK (FB) LIST

This Function Block (FB) list shows the FBs used with the MELSEC iQ-F FX5 CC-Link IE Field Network module.

Name*1	Description
M+FX5CCLIEF_DeviceRead	Reads data from a specified device in the programmable controller of another station.
M+FX5CCLIEF_DeviceWrite	Writes data to a specified device in the programmable controller of another station.
M+FX5CCLIEF_Send	Sends data to the programmable controller of another station.
M+FX5CCLIEF_Recv	Reads the data received from the programmable controller of another station.
M+FX5CCLIEF_SetParameter	Sets parameters for a module.
M+FX5CCLIEF_StationNoSet	Sets the station number for the own station.

*1 Note that this reference does not describe the FB version information which is displayed such as "_00A" at the end of FB name

2 CC-LINK IE FIELD NETWORK MODULE FB

2.1 M+FX5CCLIEF_DeviceRead

Name

M+FX5CCLIEF_DeviceRead

Overview

Item	Description																																	
Overview	Reads data from a specified device in the programmable controller of another station.																																	
Symbol	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">M+FX5CCLIEF_DeviceRead</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: right;">(1)</td> <td style="width: 45%;">B : i_bEN</td> <td style="width: 45%; text-align: right;">o_bENO : B</td> <td style="width: 5%; text-align: left;">(7)</td> </tr> <tr> <td style="text-align: right;">(2)</td> <td>DUT: i_stModule</td> <td style="text-align: right;">o_bOK : B</td> <td style="text-align: left;">(8)</td> </tr> <tr> <td style="text-align: right;">(3)</td> <td>UW : i_u2TargetAddress</td> <td style="text-align: right;">o_bErr : B</td> <td style="text-align: left;">(9)</td> </tr> <tr> <td style="text-align: right;">(4)</td> <td>UW : i_uDataLength</td> <td style="text-align: right;">o_uErrId : UW</td> <td style="text-align: left;">(10)</td> </tr> <tr> <td style="text-align: right;">(5)</td> <td>S : i_s32TargetDevice</td> <td style="text-align: right;">o_uReadData : UW</td> <td style="text-align: left;">(11)</td> </tr> <tr> <td style="text-align: right;">(6)</td> <td>UW : i_uChannel</td> <td></td> <td></td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td>(12) pbi_uCPU_Type</td></tr> <tr><td>(13) pbi_uResendCountMax</td></tr> <tr><td>(14) pbi_uTimeUnit</td></tr> <tr><td>(15) pbi_uMonitorTime</td></tr> <tr><td>(16) pbi_bStationSpecific</td></tr> <tr><td>(17) pbo_uResendCount</td></tr> <tr><td>(18) pbo_u4ErrTime</td></tr> <tr><td>(19) pbo_uErrNetworkNo</td></tr> <tr><td>(20) pbo_uErrStationNo</td></tr> </table> </div>	(1)	B : i_bEN	o_bENO : B	(7)	(2)	DUT: i_stModule	o_bOK : B	(8)	(3)	UW : i_u2TargetAddress	o_bErr : B	(9)	(4)	UW : i_uDataLength	o_uErrId : UW	(10)	(5)	S : i_s32TargetDevice	o_uReadData : UW	(11)	(6)	UW : i_uChannel			(12) pbi_uCPU_Type	(13) pbi_uResendCountMax	(14) pbi_uTimeUnit	(15) pbi_uMonitorTime	(16) pbi_bStationSpecific	(17) pbo_uResendCount	(18) pbo_u4ErrTime	(19) pbo_uErrNetworkNo	(20) pbo_uErrStationNo
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Labels

Input label

No.	Variable name	Name	Data type	Range	Description									
(1)	i_bEN	Execution command	Bit	ON, OFF	ON: The FB is activated. OFF: The FB is not activated.									
(2)	i_stModule	Module label	Structure	The setting range differs depending on the module label.	Specify the module label of the FX5-CCLIEF.									
(3)	i_u2TargetAddress	Target station address	Word [unsigned] (0..1)	—	Specify the network number and station number for the target station. To specify with a label, use an array for the data type. <div style="text-align: right; margin-right: 20px;"> <table style="border-collapse: collapse;"> <tr> <td style="text-align: right; padding-right: 5px;">b15</td> <td style="border: 1px solid black; width: 100px; height: 15px;"></td> <td style="text-align: left; padding-left: 5px;">b0</td> </tr> <tr> <td style="text-align: right; padding-right: 5px;">1st word</td> <td style="border: 1px solid black; width: 100px; height: 15px; text-align: center;">Network number: 1 to 239</td> <td></td> </tr> <tr> <td style="text-align: right; padding-right: 5px;">2nd word</td> <td style="border: 1px solid black; width: 100px; height: 15px; text-align: center;">Station number</td> <td></td> </tr> </table> </div> <p>Station number of Ethernet or CC-Link IE Controller Network</p> <ul style="list-style-type: none"> • 1 to 120 <p>Station number of CC-Link IE Field Network</p> <ul style="list-style-type: none"> • 125: Master station • 126: Master operating station • 1 to 120: Local station, remote device station, intelligent device station, submaster station 	b15		b0	1st word	Network number: 1 to 239		2nd word	Station number	
b15		b0												
1st word	Network number: 1 to 239													
2nd word	Station number													
(4)	i_uDataLength	Read data length	Word [unsigned]	1 to 960	Specify the number of words to be read. <ul style="list-style-type: none"> • When reading data from RCP, QCPU, LCP, or FX5CPU: 1 to 960 • When reading data from QnACPU: 1 to 480 									

No.	Variable name	Name	Data type	Range	Description
(5)	i_s32TargetDevice	Target station read device	Character string (32)	—	Specify the head device of the target station from which data is to be read. Refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE) for details on specifying the device.
(6)	i_uChannel	Own station channel	Word [unsigned]	1, 2	Specify the channel to be used by own station.

■Output label


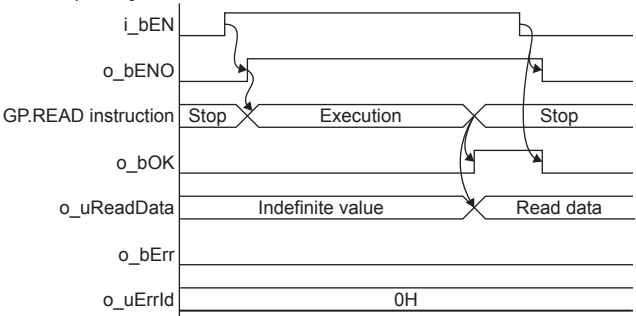
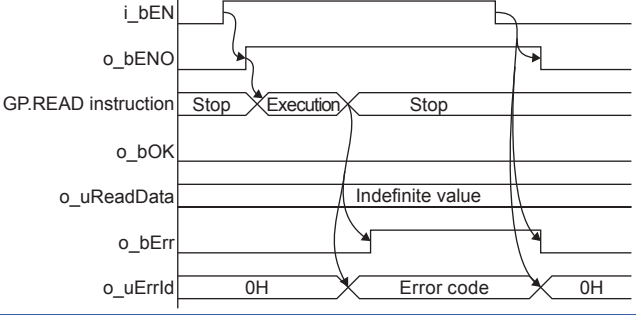
No.	Variable name	Name	Data type	Default value	Description
(7)	o_bENO	Execution status	Bit	OFF	ON: The execution command is ON. OFF: The execution command is OFF.
(8)	o_bOK	Normal completion	Bit	OFF	When this label is ON, it indicates that the device has been read out correctly.
(9)	o_bErr	Error completion	Bit	OFF	When this label is ON, it indicates that an error has occurred in the FB.
(10)	o_uErrId	Error code	Word [unsigned]	0	Stores the error code that occurred in the FB.
(11)	o_uReadData	Read data storage device	Word [unsigned]	0	Specify the start number of the device for storing the read data.

■Public label

No.	Variable name	Name	Data type	Range	Description
(12)	pbi_uCPU_Type	Target station CPU type	Word [unsigned]	0000H, 03D0H to 03D3H, 03E0H to 03E3H, 03FFH	Specify the CPU type of the target station. <ul style="list-style-type: none"> • 0000H: To CPU of target station (control CPU) • 03D0H: To control system CPU • 03D1H: To standby CPU • 03D2H: To system A CPU • 03D3H: To system B CPU • 03E0H: To multiple CPU No. 1 • 03E1H: To multiple CPU No. 2 • 03E2H: To multiple CPU No. 3 • 03E3H: To multiple CPU No. 4 • 03FFH: To CPU of target station (control CPU)
(13)	pbi_uResendCountMax	Maximum number of resends	Word [unsigned]	0 to 15	Specify the number of resends to be performed if the data transfer is not completed within the monitoring time specified by "arrival monitoring time". <ul style="list-style-type: none"> • 0 to 15
(14)	pbi_uTimeUnit	Arrival monitoring time unit	Word [unsigned]	—	This label is not used in the FB program and does not need to be set.
(15)	pbi_uMonitorTime	Arrival monitoring time	Word [unsigned]	0, 1 to 32767	Specify the monitoring time until completion of processing. If the processing is not completed within the monitoring time, data is resent until the value specified in "maximum number of resends" is reached. 0: 10 s 1 to 32767: 1 to 32767 s
(16)	pbi_bStationSpecific	Target station address specification method	Bit	—	This label is not used in the FB program and does not need to be set.
(17)	pbo_uResendCount	Number of resends	Word [unsigned]	—	The number of resends performed (result) is stored.
(18)	pbo_u4ErrTime	Error occurrence time	Word [unsigned] (0..3)	—	Clock data at the time of error occurrence is stored. 1st word <ul style="list-style-type: none"> • Upper 8 bits: Month (01H to 12H) • Lower 8 bits: Lower 2 digits of year (00H to 99H) 2nd word <ul style="list-style-type: none"> • Upper 8 bits: Hour (00H to 23H) • Lower 8 bits: Day (01H to 31H) 3rd word <ul style="list-style-type: none"> • Upper 8 bits: Second (00H to 59H) • Lower 8 bits: Minute (00H to 59H) 4th word <ul style="list-style-type: none"> • Upper 8 bits: Upper 2 digits of year (00H to 99H) • Lower 8 bits: Day of week (00H (Sunday) to 06H (Saturday))
(19)	pbo_uErrNetworkNo	Error detection network number	Word [unsigned]	—	The network number of the station in which an error was detected is stored.

No.	Variable name	Name	Data type	Range	Description
(20)	pbo_uErrStationNo	Error-detected station number	Word [unsigned]	—	The station number of the station in which an error was detected is stored. CC-Link IE Field Network station number <ul style="list-style-type: none"> • 125: Master station • 1 to 120: Local station, remote device station, intelligent device station, submaster station

FB details

Item	Description	
Available device	Target module	FX5-CCLIEF
	CPU module	FX5U CPU, FX5UC CPU
	Engineering tool	GX Works3 Version 1.025B or later
Language	Ladder diagram	
Number of basic steps	138 steps The number of steps of the FB in a program depends on the CPU module used, input and output definition, and the option setting in GX Works3 ("Minimize the temporary area."*1).	
Processing	<ul style="list-style-type: none"> • When i_bEN (Execution command) is turned ON, data corresponding to the read data length is read from the read device of the specified target station address. • If an error occurs during device read, o_bErr (Error completion) turns ON, and the error code is stored in o_uErrId (Error code). Refer to  Page 7 Error code for details on the error codes. 	
FB compilation method	Macro type	
FB operation	Pulsed execution (multiple scan execution type)	
Timing chart of I/O signals	<p>[For normal completion]</p>  <p>[For error completion] (For instruction error)</p> 	
Restrictions or precautions	<ul style="list-style-type: none"> • This FB does not include the error recovery processing. Program the error recovery processing separately in accordance with the required system operation. • This FB uses the G(P).READ 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. However, because the GP.READ instruction which is a pulse instruction in the FB is used, if a write is performed while the FB is executed, the instruction may not be executed, and o_bOK (Normal completion) and o_bErr (Error completion) may not turn on. If this happens, turn i_bEN (Execute command) from off to on again. • This FB cannot be used in an interrupt program. • Do not use this FB in programs that are executed only once, such as a subroutine program or FOR-NEXT loop, because i_bEN (Execution command) cannot be turned off and the normal operation cannot be acquired. Always use this FB in programs that can turn off i_bEN (Execution command). • When using several of these FBs, make sure that the target station address and own station channel do not overlap. • Every input must be provided with a value for proper FB operation. • Set the module parameters in GX Works3 in accordance with the connected equipment and system. For the module parameters, refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE). 	

*1 This setting is supported in GX Works3 Version 1.015R or later. The number of basic steps may vary greatly depending on the setting.

Error code

Error code (hexadecimal)	Description	Action
D000H to DFFFH	This error code is the same as the error code that occurs with the (GP.READ) instruction for reading data in the programmable controller of another station.	Refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE)

2.2 M+FX5CCLIEF_DeviceWrite

Name

M+FX5CCLIEF_DeviceWrite

Overview

Item	Description																																																																												
Overview	Writes data to a specified device in the programmable controller of another station.																																																																												
Symbol	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">M+FX5CCLIEF_DeviceWrite</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; vertical-align: top;">(1)</td> <td style="width: 40%;">B : i_bEN</td> <td style="width: 40%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">o_bENO : B</td> <td style="text-align: right;">(8)</td> </tr> <tr> <td style="vertical-align: top;">(2)</td> <td>DUT: i_stModule</td> <td></td> <td style="text-align: right;">o_bOK : B (9)</td> </tr> <tr> <td style="vertical-align: top;">(3)</td> <td>UW : i_u2TargetAddress</td> <td></td> <td style="text-align: right;">o_bErr : B (10)</td> </tr> <tr> <td style="vertical-align: top;">(4)</td> <td>UW : i_uDataLength</td> <td></td> <td style="text-align: right;">o_uErrId : UW (11)</td> </tr> <tr> <td style="vertical-align: top;">(5)</td> <td>UW : i_uWriteData</td> <td></td> <td></td> </tr> <tr> <td style="vertical-align: top;">(6)</td> <td>S : i_s32TargetDevice</td> <td></td> <td></td> </tr> <tr> <td style="vertical-align: top;">(7)</td> <td>UW : i_uChannel</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(12) pbi_uCPU_Type</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(13) pbi_uTargetStation</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(14) pbi_bArrivalConfirm</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(15) pbi_uResendCountMax</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(16) pbi_uTimeUnit</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(17) pbi_uMonitorTime</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(18) pbi_bStationSpecific</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(19) pbo_uResendCount</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(20) pbo_u4ErrTime</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(21) pbo_uErrNetworkNo</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(22) pbo_uErrStationNo</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_u2TargetAddress		o_bErr : B (10)	(4)	UW : i_uDataLength		o_uErrId : UW (11)	(5)	UW : i_uWriteData			(6)	S : i_s32TargetDevice			(7)	UW : i_uChannel				(12) pbi_uCPU_Type				(13) pbi_uTargetStation				(14) pbi_bArrivalConfirm				(15) pbi_uResendCountMax				(16) pbi_uTimeUnit				(17) pbi_uMonitorTime				(18) pbi_bStationSpecific				(19) pbo_uResendCount				(20) pbo_u4ErrTime				(21) pbo_uErrNetworkNo				(22) pbo_uErrStationNo		
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Labels

Input label

No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	ON, OFF	ON: The FB is activated. OFF: The FB is not activated.
(2)	i_stModule	Module label	Structure	The setting range differs depending on the module label.	Specify the module label of the FX5-CCLIEF.

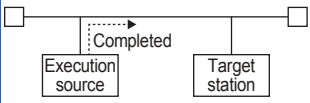
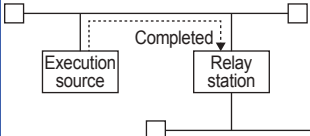
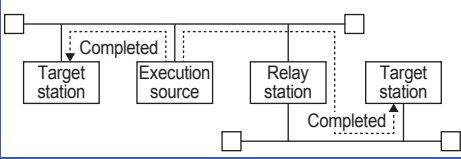
No.	Variable name	Name	Data type	Range	Description																														
(3)	i_u2TargetAddress	Target station address	Word [unsigned]	—	<p>Specify the network number and station number for the target station. To specify with a label, use an array for the data type.</p> <p>■When "target station specification method" is set to 0 to specify a station number</p> <table border="1" style="margin-left: 40px;"> <tr> <td style="text-align: right;">b15</td> <td style="text-align: left;">b0</td> </tr> <tr> <td colspan="2" style="text-align: center;">1st word</td> </tr> <tr> <td colspan="2" style="text-align: center;">Network number: 1 to 239</td> </tr> <tr> <td colspan="2" style="text-align: center;">2nd word</td> </tr> <tr> <td colspan="2" style="text-align: center;">Station number</td> </tr> </table> <p>Station number of Ethernet or CC-Link IE Controller Network</p> <ul style="list-style-type: none"> • 1 to 120 <p>Station number of CC-Link IE Field Network</p> <ul style="list-style-type: none"> • 125: Master station • 126: Master operating station • 1 to 120: Local station, remote device station, intelligent device station, submaster station <p>■When "target station specification method" is set to 1 to specify a group</p> <table border="1" style="margin-left: 40px;"> <tr> <td style="text-align: right;">b15</td> <td style="text-align: left;">b0</td> </tr> <tr> <td colspan="2" style="text-align: center;">1st word</td> </tr> <tr> <td colspan="2" style="text-align: center;">Network number: 1 to 239</td> </tr> <tr> <td colspan="2" style="text-align: center;">2nd word</td> </tr> <tr> <td colspan="2" style="text-align: center;">Transient transmission group number: 1 to 32</td> </tr> </table> <p>■When "target station specification method" is set to 2 to specify all stations</p> <table border="1" style="margin-left: 40px;"> <tr> <td style="text-align: right;">b15</td> <td style="text-align: left;">b0</td> </tr> <tr> <td colspan="2" style="text-align: center;">1st word</td> </tr> <tr> <td colspan="2" style="text-align: center;">Network number: 1 to 239</td> </tr> <tr> <td colspan="2" style="text-align: center;">2nd word</td> </tr> <tr> <td colspan="2" style="text-align: center;">0 (The set value is ignored.)</td> </tr> </table>	b15	b0	1st word		Network number: 1 to 239		2nd word		Station number		b15	b0	1st word		Network number: 1 to 239		2nd word		Transient transmission group number: 1 to 32		b15	b0	1st word		Network number: 1 to 239		2nd word		0 (The set value is ignored.)	
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0 (The set value is ignored.)																																			
(4)	i_uDataLength	Write data length	Word [unsigned]	1 to 960	<p>Specify the number of words to be written.</p> <ul style="list-style-type: none"> • When reading data from RCP, QCPU, LCP, or FX5CPU: 1 to 960 • When reading data from QnACPU: 1 to 480 																														
(5)	i_uWriteData	Write data storage device	Word [unsigned]	—	Specify the head device of own station containing the write data.																														
(6)	i_s32TargetDevice	Target station write device	Character string	—	<p>Specify the head device of the target station to which data is to be written.</p> <p>Refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE) for details on specifying the device.</p>																														
(7)	i_uChannel	Own station channel	Word [unsigned]	1, 2	Specify the channel to be used by own station.																														

■Output label

No.	Variable name	Name	Data type	Default value	Description
(8)	o_bENO	Execution status	Bit	OFF	ON: The execution command is ON. OFF: The execution command is OFF.
(9)	o_bOK	Normal completion	Bit	OFF	When this label is ON, it indicates that the device has been written in correctly.
(10)	o_bErr	Error completion	Bit	OFF	When this label is ON, it indicates that an error has occurred in the FB.
(11)	o_uErrId	Error code	Word [unsigned]	0	The error code that occurred in the FB is stored.

■Public label

No.	Variable name	Name	Data type	Default value	Description
(12)	pbi_uCPU_Type	Target station CPU type	Word [unsigned]	0000H, 03D0H to 03D3H, 03E0H to 03E3H, 03FFH	<p>Specify the CPU type of the target station.</p> <ul style="list-style-type: none"> • 0000H: To CPU of target station (control CPU) • 03D0H: To control system CPU • 03D1H: To standby CPU • 03D2H: To system A CPU • 03D3H: To system B CPU • 03E0H: To multiple CPU No. 1 • 03E1H: To multiple CPU No. 2 • 03E2H: To multiple CPU No. 3 • 03E3H: To multiple CPU No. 4 • 03FFH: To CPU of target station (control CPU)

No.	Variable name	Name	Data type	Default value	Description
(13)	pbi_uTargetStation	Target station specification method	Word [unsigned]	0 to 2	<p>Specify the target station specification method.</p> <ul style="list-style-type: none"> • 0: Station number specification → Station with the station number specified in "target station address" • 1: Group specification → All stations with the transient transmission group number specified with "target station address specification" • 2: All stations → All stations with the network number specified with "target station address specification" (Broadcast simultaneously to all stations excluding own station) <p>Group specification cannot be used when the target group is the CC-Link IE Field network.</p> <p>Group specification and All station specification can be specified only when "Arrival acknowledgment" = OFF (None).</p> <p>When using Group specification or All station specification, set the CPU type of the target station to "0000H" or "03FFH".</p>
(14)	pbi_bArrivalConfirm	Arrival acknowledgment	Bit	ON, OFF	<p>Specify whether to use arrival acknowledgment.</p> <p>■OFF: None</p> <ul style="list-style-type: none"> • When the target station is within the own network, sending data from the own station completes the sending.  <ul style="list-style-type: none"> • When the target station is within another network, data arrival to the relay station within the own network completes the sending.  <p>■ON: Check</p> <ul style="list-style-type: none"> • Sending data is completed when the data is written to the target station. 
(15)	pbi_uResendCountMax	Maximum number of resends	Word [unsigned]	0 to 15	<p>Specify the number of resends to be performed if the data transfer is not completed within the monitoring time specified by "arrival monitoring time".</p> <ul style="list-style-type: none"> • 0 to 15
(16)	pbi_uTimeUnit	Arrival monitoring time unit	Word [unsigned]	—	This label is not used in the FB program and does not need to be set.
(17)	pbi_uMonitorTime	Arrival monitoring time	Word [unsigned]	0, 1 to 32767	<p>Specify the monitoring time until completion of processing. If the processing is not completed within the monitoring time, data is resent until the value specified in "maximum number of resends" is reached.</p> <p>0: 10 s 1 to 32767: 1 to 32767 s</p>
(18)	pbi_bStationSpecific	Target station address specification method	Bit	—	This label is not used in the FB program and does not need to be set.
(19)	pbo_uResendCount	Number of resends	Word [unsigned]	—	The number of resends performed (result) is stored.

No.	Variable name	Name	Data type	Default value	Description
(20)	pbo_u4ErrTime	Error occurrence time	Word [unsigned] (0..3)	—	Clock data at the time of error occurrence is stored. 1st word • Upper 8 bits: Month (01H to 12H) • Lower 8 bits: Lower 2 digits of year (00H to 99H) 2nd word • Upper 8 bits: Hour (00H to 23H) • Lower 8 bits: Day (01H to 31H) 3rd word • Upper 8 bits: Second (00H to 59H) • Lower 8 bits: Minute (00H to 59H) 4th word • Upper 8 bits: Upper 2 digits of year (00H to 99H) • Lower 8 bits: Day of week (00H (Sunday) to 06H (Saturday))
(21)	pbo_uErrNetworkNo	Error detection network number	Word [unsigned]	—	The network number of the station in which an error was detected is stored.
(22)	pbo_uErrStationNo	Error-detected station number	Word [unsigned]	—	The station number of the station in which an error was detected is stored. CC-Link IE Field Network station number • 125: Master station • 1 to 120: Local station, remote device station, intelligent device station, submaster station

FB details

Item	Description	
Available device	Target module	FX5-CCLIEF
	CPU module	FX5U CPU, FX5UC CPU
	Engineering tool	GX Works3 Version 1.025B or later
Language	Ladder diagram	
Number of basic steps	161 steps The number of steps of the FB in a program depends on the CPU module used, input and output definition, and the option setting in GX Works3 ("Minimize the temporary area."*1).	
Processing	<ul style="list-style-type: none"> When i_bEN (Execution command) is turned ON, data corresponding to the write data length is written from the device specified with the write data storage device into the target station write device of the specified target station address. If an error occurs during device write, o_bErr (Error completion) turns ON, and the error code is stored in o_uErrId (Error code). Refer to Page 12 Error code for details on the error codes. 	
FB compilation method	Macro type	
FB operation	Pulsed execution (multiple scan execution type)	
Timing chart of I/O signals	<p>[For normal completion]</p> <p>[For error completion] (For instruction error)</p>	

Item	Description
Restrictions or precautions	<ul style="list-style-type: none"> • This FB does not include the error recovery processing. Program the error recovery processing separately in accordance with the required system operation. • This FB uses the G(P).WRITE 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. However, because the GP.WRITE instruction which is a pulse instruction in the FB is used, if a write is performed while the FB is executed, the instruction may not be executed, and o_bOK (Normal completion) and o_bErr (Error completion) may not turn on. If this happens, turn i_bEN (Execute command) from off to on again. • This FB cannot be used in an interrupt program. • Do not use this FB in programs that are executed only once, such as a subroutine program or FOR-NEXT loop, because i_bEN (Execution command) cannot be turned off and the normal operation cannot be acquired. Always use this FB in programs that can turn off i_bEN (Execution command). • When using several of these FBs, make sure that the target station address and own station channel do not overlap. • Every input must be provided with a value for proper FB operation. • Set the module parameters in GX Works3 in accordance with the connected equipment and system. For the module parameters, refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE).

*1 This setting is supported in GX Works3 Version 1.015R or later. The number of basic steps may vary greatly depending on the setting.

Error code

Error code (hexadecimal)	Description	Action
D000H to DFFFH	This error code is the same as the error code that occurs with the (GP.WRITE) instruction for writing data in the programmable controller of another station.	Refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE)

2.3 M+FX5CCLIEF_Send

Name

M+FX5CCLIEF_Send

Overview

Item	Description																																																																
Overview	Sends data to the programmable controller of another station.																																																																
Symbol	<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">M+FX5CCLIEF_Send</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: right;">(1)</td> <td style="width: 45%;">B : i_bEN</td> <td style="width: 45%; text-align: left;">o_bENO : B</td> <td style="width: 5%; text-align: left;">(9)</td> </tr> <tr> <td style="text-align: right;">(2)</td> <td>DUT: i_stModule</td> <td style="text-align: left;">o_bOK : B</td> <td style="text-align: left;">(10)</td> </tr> <tr> <td style="text-align: right;">(3)</td> <td>UW : i_uTargetNetworkNo</td> <td style="text-align: left;">o_bErr : B</td> <td style="text-align: left;">(11)</td> </tr> <tr> <td style="text-align: right;">(4)</td> <td>UW : i_uTargetStationNo</td> <td style="text-align: left;">o_uErrId : UW</td> <td style="text-align: left;">(12)</td> </tr> <tr> <td style="text-align: right;">(5)</td> <td>UW : i_uChannel</td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">(6)</td> <td>UW : i_uTargetChannel</td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">(7)</td> <td>UW : i_uDataLength</td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">(8)</td> <td>UW : i_uSendData</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(13) pbi_uTargetStation</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(14) pbi_bArrivalConfirm</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(15) pbi_uResendCountMax</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(16) pbi_uMonitorTime</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(17) pbo_uResendCount</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(18) pbo_u4ErrTime</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(19) pbo_uErrNetworkNo</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(20) pbo_uErrStationNo</td> <td></td> <td></td> </tr> </table> </div>	(1)	B : i_bEN	o_bENO : B	(9)	(2)	DUT: i_stModule	o_bOK : B	(10)	(3)	UW : i_uTargetNetworkNo	o_bErr : B	(11)	(4)	UW : i_uTargetStationNo	o_uErrId : UW	(12)	(5)	UW : i_uChannel			(6)	UW : i_uTargetChannel			(7)	UW : i_uDataLength			(8)	UW : i_uSendData				(13) pbi_uTargetStation				(14) pbi_bArrivalConfirm				(15) pbi_uResendCountMax				(16) pbi_uMonitorTime				(17) pbo_uResendCount				(18) pbo_u4ErrTime				(19) pbo_uErrNetworkNo				(20) pbo_uErrStationNo		
(1)	B : i_bEN	o_bENO : B	(9)																																																														
(2)	DUT: i_stModule	o_bOK : B	(10)																																																														
(3)	UW : i_uTargetNetworkNo	o_bErr : B	(11)																																																														
(4)	UW : i_uTargetStationNo	o_uErrId : UW	(12)																																																														
(5)	UW : i_uChannel																																																																
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(7)	UW : i_uDataLength																																																																
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	(18) pbo_u4ErrTime																																																																
	(19) pbo_uErrNetworkNo																																																																
	(20) pbo_uErrStationNo																																																																

Labels

Input label

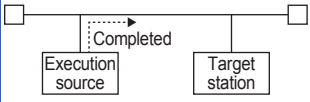
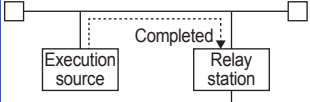
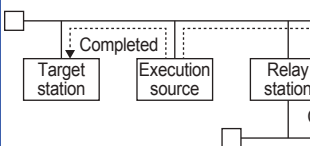
No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	ON, OFF	ON: The FB is activated. OFF: The FB is not activated.
(2)	i_stModule	Module label	Structure	The setting range differs depending on the module label.	Specify the module label of the FX5-CCLIEF.
(3)	i_uTargetNetworkNo	Target network number	Word [unsigned]	1 to 239	Specify the network number of the target station.
(4)	i_uTargetStationNo	Target station number	Word [unsigned]	—	Specify the station number of the target station or the transient transmission group number. ■ When "target station specification method" is set to 0 to specify a station number CC-Link IE Field Network station number <ul style="list-style-type: none"> • 125: Master station • 126: Master operating station • 1 to 120: Local station, remote device station, intelligent device station, submaster station ■ When "target station specification method" is set to 1 to specify a group Specify the transient transmission group number <ul style="list-style-type: none"> • 1 to 32 ■ When "target station specification method" is set to 2 to specify all stations The setting is ignored.
(5)	i_uChannel	Own station channel	Word [unsigned]	1, 2	Specify the channel to be used by own station.
(6)	i_uTargetChannel	Target station data storage channel	Word [unsigned]	1 to 8	Specify the channel of the target station for storing data. When the target station is a CC-Link IE Field Network master/local module, specify 1 or 2.

No.	Variable name	Name	Data type	Range	Description
(7)	i_uDataLength	Send data length	Word [unsigned]	1 to 960	Specify the number of words to be sent. <ul style="list-style-type: none"> When reading data from RCP, QCPU, LCP, or FX5CPU: 1 to 960 When reading data from QnACP: 1 to 480
(8)	i_uSendData	Send data storage device	Word [unsigned]	—	Specify the head device of own station containing the send data.

■Output label


No.	Variable name	Name	Data type	Default value	Description
(9)	o_bENO	Execution status	Bit	OFF	ON: The execution command is ON. OFF: The execution command is OFF.
(10)	o_bOK	Normal completion	Bit	OFF	When this label is ON, it indicates that the data has been sent correctly.
(11)	o_bErr	Error completion	Bit	OFF	When this label is ON, it indicates that an error has occurred in the FB.
(12)	o_uErrId	Error code	Word [unsigned]	0	Stores the error code that occurred in the FB.

■Public label

No.	Variable name	Name	Data type	Range	Description
(13)	pbi_uTargetStation	Target station specification method	Word [unsigned]	0 to 2	Specify the target station specification method. <ul style="list-style-type: none"> 0: Station number specification → Station with the station number specified in "Target station number" 1: Group specification → All stations with the transient transmission group number specified with "target station number" 2: All stations → All stations with the network number specified with "target station network number" (Broadcast simultaneously to all stations excluding own station) Group specification cannot be used when the target group is the CC-Link IE Field network. Group specification and All station specification can be specified only when "Arrival acknowledgment" = OFF (None).
(14)	pbi_bArrivalConfirm	Arrival acknowledgment	Bit	ON, OFF	Specify whether to use arrival acknowledgment. ■OFF: None <ul style="list-style-type: none"> When the target station is within the own network, sending data from the own station completes the sending.  <ul style="list-style-type: none"> When the target station is within another network, data arrival to the relay station within the own network completes the sending.  ■ON: Check <ul style="list-style-type: none"> Sending data is completed when the data is written to the target station. 
(15)	pbi_uResendCountMax	Maximum number of resends	Word [unsigned]	0 to 15	Specify the number of resends to be performed if the data transfer is not completed within the monitoring time specified by "arrival monitoring time". <ul style="list-style-type: none"> 0 to 15

No.	Variable name	Name	Data type	Range	Description
(16)	pbi_uMonitorTime	Arrival monitoring time	Word [unsigned]	0, 1 to 32767	Specify the monitoring time until completion of processing. If the processing is not completed within the monitoring time, data is resent until the value specified in "maximum number of resends" is reached. 0: 10 s 1 to 32767: 1 to 32767 s
(17)	pbo_uResendCount	Number of resends	Word [unsigned]	—	The number of resends performed (result) is stored.
(18)	pbo_u4ErrTime	Error occurrence time	Word [unsigned] (0..3)	—	Clock data at the time of error occurrence is stored. 1st word • Upper 8 bits: Month (01H to 12H) • Lower 8 bits: Lower 2 digits of year (00H to 99H) 2nd word • Upper 8 bits: Hour (00H to 23H) • Lower 8 bits: Day (01H to 31H) 3rd word • Upper 8 bits: Second (00H to 59H) • Lower 8 bits: Minute (00H to 59H) 4th word • Upper 8 bits: Upper 2 digits of year (00H to 99H) • Lower 8 bits: Day of week (00H (Sunday) to 06H (Saturday))
(19)	pbo_uErrNetworkNo	Error detection network number	Word [unsigned]	—	The network number of the station in which an error was detected is stored.
(20)	pbo_uErrStationNo	Error-detected station number	Word [unsigned]	—	The station number of the station in which an error was detected is stored. CC-Link IE Field Network station number • 125: Master station • 1 to 120: Local station, remote device station, intelligent device station, submaster station

FB details

Item	Description	
Available device	Target module	FX5-CCLIEF
	CPU module	FX5U CPU, FX5UC CPU
	Engineering tool	GX Works3 Version 1.025B or later
Language	Ladder diagram	
Number of basic steps	158 steps The number of steps of the FB in a program depends on the CPU module used, input and output definition, and the option setting in GX Works3 ("Minimize the temporary area."*1).	
Processing	<ul style="list-style-type: none"> When i_bEN (Execution command) is turned ON, data corresponding to the send data length is sent from the send data storage device to the specified target station address. If an error occurs while sending data, o_bErr (Error completion) turns ON, and the error code is stored in o_uErrId (Error code). Refer to  Page 16 Error code for details on the error codes. 	
FB compilation method	Macro type	
FB operation	Pulsed execution (multiple scan execution type)	

Item	Description
Timing chart of I/O signals	<p>[For normal completion]</p> <p>[For error completion] (For instruction error)</p>

Restrictions or precautions	<ul style="list-style-type: none"> • This FB does not include the error recovery processing. Program the error recovery processing separately in accordance with the required system operation. • This FB uses the G(P).SEND 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_uErrld (Error code) is cleared to 0. However, because the GP.SEND instruction which is a pulse instruction in the FB is used, if a write is performed while the FB is executed, the instruction may not be executed, and o_bOK (Normal completion) and o_bErr (Error completion) may not turn on. If this happens, turn i_bEN (Execute command) from off to on again. • This FB cannot be used in an interrupt program. • Do not use this FB in programs that are executed only once, such as a subroutine program or FOR-NEXT loop, because i_bEN (Execution command) cannot be turned off and the normal operation cannot be acquired. Always use this FB in programs that can turn off i_bEN (Execution command). • When using several of these FBs, make sure that the target station address and own station channel do not overlap. • Every input must be provided with a value for proper FB operation. • Set the module parameters in GX Works3 in accordance with the connected equipment and system. For the module parameters, refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE).
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*1 This setting is supported in GX Works3 Version 1.015R or later. The number of basic steps may vary greatly depending on the setting.

Error code

Error code (hexadecimal)	Description	Action
D000H to DFFFH	This error code is the same as the error code that occurs with the (GP.SEND) instruction for sending data to the programmable controller of another station.	Refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE)

2.4 M+FX5CCLIEF_Recv

Name

M+FX5CCLIEF_Recv

Overview

Item	Description																																	
Overview	Reads the data received from the programmable controller of another station.																																	
Symbol	<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">M+FX5CCLIEF_Recv</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">(1) B : i_bEN</td> <td style="width: 50%;"></td> <td style="width: 15%;">o_bENO : B</td> <td style="width: 10%;">(4)</td> </tr> <tr> <td>(2) DUT: i_stModule</td> <td></td> <td>o_bOK : B</td> <td>(5)</td> </tr> <tr> <td>(3) UW : i_uRecvChannel</td> <td></td> <td>o_bErr : B</td> <td>(6)</td> </tr> <tr> <td></td> <td></td> <td>o_uErrId : UW</td> <td>(7)</td> </tr> <tr> <td></td> <td></td> <td>o_uRecvDataLength : UW</td> <td>(8)</td> </tr> <tr> <td></td> <td></td> <td>o_uRecvData : UW</td> <td>(9)</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td>(10) pbi_bReadTiming</td></tr> <tr><td>(11) pbi_uMonitorTime</td></tr> <tr><td>(12) pbo_uResendCount</td></tr> <tr><td>(13) pbo_u4ErrTime</td></tr> <tr><td>(14) pbo_uErrNetworkNo</td></tr> <tr><td>(15) pbo_uErrStationNo</td></tr> <tr><td>(16) pbo_uSendNetworkNo</td></tr> <tr><td>(17) pbo_uSendStationNo</td></tr> <tr><td>(18) pbo_uSendChannel</td></tr> </table> </div>	(1) B : i_bEN		o_bENO : B	(4)	(2) DUT: i_stModule		o_bOK : B	(5)	(3) UW : i_uRecvChannel		o_bErr : B	(6)			o_uErrId : UW	(7)			o_uRecvDataLength : UW	(8)			o_uRecvData : UW	(9)	(10) pbi_bReadTiming	(11) pbi_uMonitorTime	(12) pbo_uResendCount	(13) pbo_u4ErrTime	(14) pbo_uErrNetworkNo	(15) pbo_uErrStationNo	(16) pbo_uSendNetworkNo	(17) pbo_uSendStationNo	(18) pbo_uSendChannel
(1) B : i_bEN		o_bENO : B	(4)																															
(2) DUT: i_stModule		o_bOK : B	(5)																															
(3) UW : i_uRecvChannel		o_bErr : B	(6)																															
		o_uErrId : UW	(7)																															
		o_uRecvDataLength : UW	(8)																															
		o_uRecvData : UW	(9)																															
(10) pbi_bReadTiming																																		
(11) pbi_uMonitorTime																																		
(12) pbo_uResendCount																																		
(13) pbo_u4ErrTime																																		
(14) pbo_uErrNetworkNo																																		
(15) pbo_uErrStationNo																																		
(16) pbo_uSendNetworkNo																																		
(17) pbo_uSendStationNo																																		
(18) pbo_uSendChannel																																		

Labels

■Input label

No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	ON, OFF	ON: The FB is activated. OFF: The FB is not activated.
(2)	i_stModule	Module label	Structure	The setting range differs depending on the module label.	Specify the module label of the FX5-CCLIEF.
(3)	i_uRecvChannel	Receive data storage channel	Word [unsigned]	1, 2	Specify the channel containing the data to be read.


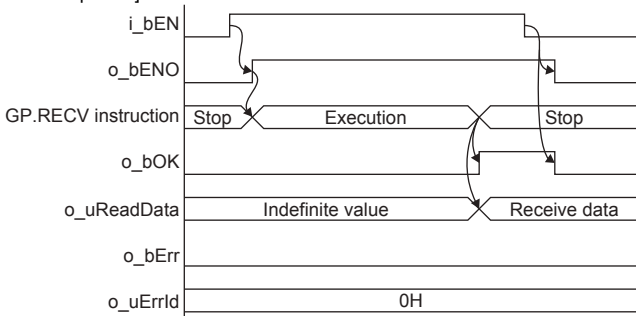
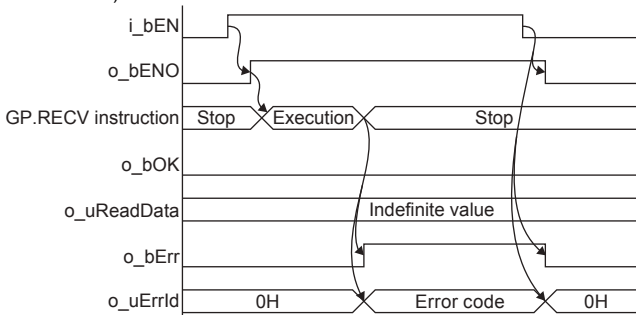

■Output label

No.	Variable name	Name	Data type	Default value	Description
(4)	o_bENO	Execution status	Bit	OFF	ON: The execution command is ON. OFF: The execution command is OFF.
(5)	o_bOK	Normal completion	Bit	OFF	When this label is ON, it indicates that reading of the received data has completed normally.
(6)	o_bErr	Error completion	Bit	OFF	When this label is ON, it indicates that an error has occurred in the FB.
(7)	o_uErrId	Error code	Word [unsigned]	0	Stores the error code that occurred in the FB.
(8)	o_uRecvDataLength	Receive data length	Word [unsigned]	0	The number of received data is stored. 1 to 960 words
(9)	o_uRecvData	Receive data storage device	Word [unsigned]	0	Specify the start number of the device for storing received data.

Public label


No.	Variable name	Name	Data type	Default value	Description
(10)	pbi_bReadTiming	Read timing	Bit	—	This label is not used in the FB program and does not need to be set. Data is read at the first END processing after the unit FB is started.
(11)	pbi_uMonitorTime	Arrival monitoring time	Word [unsigned]	0, 1 to 32767	Specify the time to monitor until completion of the process. If the processing is not completed within the monitoring time, it will end with an error. 0: 10 s 1 to 32767: 1 to 32767 s
(12)	pbo_uResendCount	Number of resends	Word [unsigned]	—	This label is not used in the FB program and does not need to be set.
(13)	pbo_u4ErrTime	Error occurrence time	Word [unsigned] (0..3)	—	Clock data at the time of error occurrence is stored. 1st word • Upper 8 bits: Month (01H to 12H) • Lower 8 bits: Lower 2 digits of year (00H to 99H) 2nd word • Upper 8 bits: Hour (00H to 23H) • Lower 8 bits: Day (01H to 31H) 3rd word • Upper 8 bits: Second (00H to 59H) • Lower 8 bits: Minute (00H to 59H) 4th word • Upper 8 bits: Upper 2 digits of year (00H to 99H) • Lower 8 bits: Day of week (00H (Sunday) to 06H (Saturday))
(14)	pbo_uErrNetworkNo	Error detection network number	Word [unsigned]	—	The network number of the station in which an error was detected is stored.
(15)	pbo_uErrStationNo	Error-detected station number	Word [unsigned]	—	The station number of the station in which an error was detected is stored. CC-Link IE Field Network station number • 125: Master station • 1 to 120: Local station, remote device station, intelligent device station, submaster station
(16)	pbo_uSendNetworkNo	Send station network number	Word [unsigned]	—	The network number of the send station is stored.
(17)	pbo_uSendStationNo	Send station number	Word [unsigned]	—	The station number of the send station is stored. CC-Link IE Field Network station number • 125: Master station • 1 to 120: Local station, remote device station, intelligent device station, submaster station
(18)	pbo_uSendChannel	Channel used by send station	Word [unsigned]	1 to 8	The channel number used by the send station is stored.

FB details

Item	Description	
Available device	Target module	FX5-CCLIEF
	CPU module	FX5U CPU, FX5UC CPU
	Engineering tool	GX Works3 Version 1.025B or later
Language	Ladder diagram	
Number of basic steps	132 steps The number of steps of the FB in a program depends on the CPU module used, input and output definition, and the option setting in GX Works3 ("Minimize the temporary area." ^{*1}).	
Processing	<ul style="list-style-type: none"> When i_bEN (Execution command) is turned ON, the received data is read from the specified received data storage channel and saved into the received data storage device. If an error occurs while receiving the data, o_bErr (Error completion) turns ON, and the error code is stored in o_uErrId (Error code). Refer to  Page 19 Error code for details on the error codes. 	
FB compilation method	Macro type	
FB operation	Pulsed execution (multiple scan execution type)	
Timing chart of I/O signals	<p>[For normal completion]</p>  <p>[For error completion] (For instruction error)</p> 	
Restrictions or precautions	<ul style="list-style-type: none"> This FB does not include the error recovery processing. Program the error recovery processing separately in accordance with the required system operation. This FB uses the GP.RECV 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. However, because the GP.RECV instruction which is a pulse instruction in the FB is used, if a write is performed while the FB is executed, the instruction may not be executed, and o_bOK (Normal completion) and o_bErr (Error completion) may not turn on. If this happens, turn i_bEN (Execute command) from off to on again. This FB cannot be used in an interrupt program. Do not use this FB in programs that are executed only once, such as a subroutine program or FOR-NEXT loop, because i_bEN (Execution command) cannot be turned off and the normal operation cannot be acquired. Always use this FB in programs that can turn off i_bEN (Execution command). When using several of these FBs, make sure that the receive data storage channel do not overlap. Every input must be provided with a value for proper FB operation. Set the module parameters in GX Works3 in accordance with the connected equipment and system. For the module parameters, refer to the  MELSEC iQ-F FX5 User's Manual (CC-Link IE). 	

*1 This setting is supported in GX Works3 Version 1.015R or later. The number of basic steps may vary greatly depending on the setting.

Error code

Error code (hexadecimal)	Description	Action
D000H to DFFFH	This error code is the same as the error code that occurs with the (GP.RECV) instruction for reading data received from the programmable controller of another station.	Refer to the  MELSEC iQ-F FX5 User's Manual (CC-Link IE)

■Public label

No.	Variable name	Name	Data type	Range	Description
(11)	pbi_uConstantLinkScanTime	Constant link scan time	Word [unsigned]	—	This label is not used in the FB program and does not need to be set.
(12)	pbi_ulpAddress	Upper 2 digits of IP address	Word [unsigned]	—	
(13)	pbi_bNetworkConfigurationSetFlg	Presence of network configuration setting data	Bit	—	
(14)	pbi_bReservedStationSetFlg	Presence of reserved station specification data	Bit	—	
(15)	pbi_bErrInvalidStationSetFlg	Presence of error invalid station setting data	Bit	—	
(16)	pbi_bSubMasterSet	Presence of submaster function	Bit	—	
(17)	pbi_bIP_PacketTransferFlg	Presence of IP packet transfer function	Bit	—	
(18)	pbi_bDataLinkFaultyStationSet	Data link faulty station setting	Bit	ON, OFF	Specify whether to hold or clear the input data from a data link faulty station. OFF: clear ON: hold
(19)	pbi_bCPU_StopOutputSet	Output setting for CPU STOP	Bit	ON, OFF	Specify whether to hold or clear the output data when the operating status of a CPU module is STOP. OFF: hold ON: clear
(20)	pbi_bCPU_StopErrorOutputSet	Output setting for CPU stop error	Bit	ON, OFF	Specify whether to hold or clear the output data when the operating status of a CPU module is STOP. OFF: clear ON: hold
(21)	pbi_bLinkScanModeSet	Link scan mode setting	Bit	—	This label is not used in the FB program and does not need to be set.
(22)	pbi_bTopologySet	Network topology setting	Bit	—	
(23)	pbi_bMasterReturnSet	Master station return time operation setting	Bit	—	
(24)	pbi_bSubMasterOperateParam	Submaster station parameter operation setting	Bit	—	

FB details

Item	Description	
Available device	Target module	FX5-CCLIEF
	CPU module	FX5U CPU, FX5UC CPU
	Engineering tool	GX Works3 Version 1.025B or later
Language	Ladder diagram	
Number of basic steps	96 steps The number of steps of the FB in a program depends on the CPU module used, input and output definition, and the option setting in GX Works3 ("Minimize the temporary area."*1).	
Processing	<ul style="list-style-type: none"> When i_bEN (Execution command) is turned ON, the parameters are set in the module. If an error occurs while setting the parameters, o_bErr (Error completion) turns ON, and the error code is stored in o_uErrId (Error code). Refer to Page 22 Error code for details on the error codes. 	
FB compilation method	Macro type	
FB operation	Pulsed execution (multiple scan execution type)	
Timing chart of I/O signals	<p>[For normal completion]</p> <p>[For error completion] (For instruction error)</p>	
Restrictions or precautions	<ul style="list-style-type: none"> This FB does not include the error recovery processing. Program the error recovery processing separately in accordance with the required system operation. This FB uses the GP.CCPASET instruction. The module parameter "Parameter Setting Method" must be set to "Set with Program" to enable the GP.CCPASET 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. However, because the GP.CCPASET instruction which is a pulse instruction in the FB is used, if a write is performed while the FB is executed, the instruction may not be executed, and o_bOK (Normal completion) and o_bErr (Error completion) may not turn on. If this happens, turn i_bEN (Execute command) from off to on again. This FB cannot be used in an interrupt program. Do not use this FB in programs that are executed only once, such as a subroutine program or FOR-NEXT loop, because i_bEN (Execution command) cannot be turned off and the normal operation cannot be acquired. Always use this FB in programs that can turn off i_bEN (Execution command). Set the module parameters in GX Works3 in accordance with the connected equipment and system. For the module parameters, refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE). 	

*1 This setting is supported in GX Works3 Version 1.015R or later. The number of basic steps may vary greatly depending on the setting.

Error code

Error code (hexadecimal)	Description	Action
D000H to DFFFH	This error code is the same as the error code that occurs with the parameter set (GP.CCPASET) instruction.	Refer to the MELSEC iQ-F FX5 User's Manual (CC-Link IE)

2.6 M+FX5CCLIEF_StationNoSet

Name

M+FX5CCLIEF_StationNoSet

Overview

Item	Description																												
Overview	Sets the station number for the own station.																												
Symbol	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p style="text-align: center; margin: 0;">M+FX5CCLIEF_StationNoSet</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; vertical-align: top;">(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: right;">o_bENO : B</td> <td style="width: 5%; text-align: right;">(4)</td> </tr> <tr> <td style="vertical-align: top;">(2)</td> <td>DUT: i_stModule</td> <td></td> <td></td> <td></td> <td style="text-align: right;">o_bOK : B</td> <td style="text-align: right;">(5)</td> </tr> <tr> <td style="vertical-align: top;">(3)</td> <td>UW : i_uSetStationNo</td> <td></td> <td></td> <td></td> <td style="text-align: right;">o_bErr : B</td> <td style="text-align: right;">(6)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">o_uErrId : UW</td> <td style="text-align: right;">(7)</td> </tr> </table> </div>	(1)	B : i_bEN				o_bENO : B	(4)	(2)	DUT: i_stModule				o_bOK : B	(5)	(3)	UW : i_uSetStationNo				o_bErr : B	(6)						o_uErrId : UW	(7)
(1)	B : i_bEN				o_bENO : B	(4)																							
(2)	DUT: i_stModule				o_bOK : B	(5)																							
(3)	UW : i_uSetStationNo				o_bErr : B	(6)																							
					o_uErrId : UW	(7)																							

Labels


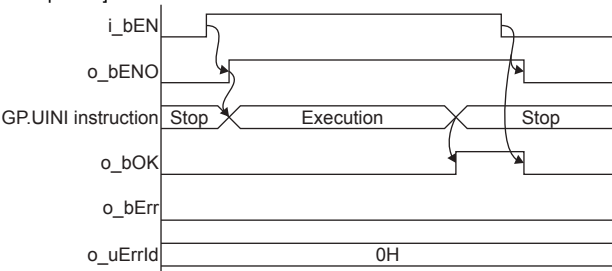
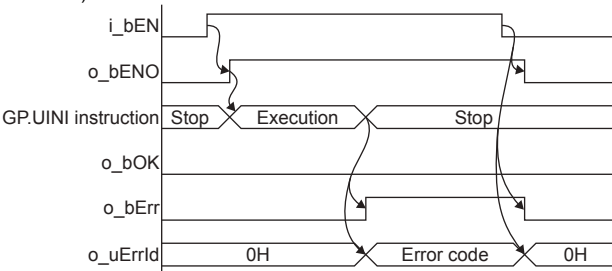

■Input label

No.	Variable name	Name	Data type	Range	Description
(1)	i_bEN	Execution command	Bit	ON, OFF	ON: The FB is activated. OFF: The FB is not activated.
(2)	i_stModule	Module label	Structure	The setting range differs depending on the module label.	Specify the module label of the FX5-CCLIEF.
(3)	i_uSetStationNo	Setting station number	Word [unsigned]	1 to 120	Specifies the station number to be set.

■Output label


No.	Variable name	Name	Data type	Default value	Description
(4)	o_bENO	Execution status	Bit	OFF	ON: The execution command is ON. OFF: The execution command is OFF.
(5)	o_bOK	Normal completion	Bit	OFF	When this label is ON, it indicates that the station number has been set correctly.
(6)	o_bErr	Error completion	Bit	OFF	When this label is ON, it indicates that an error has occurred in the FB.
(7)	o_uErrId	Error code	Word [unsigned]	0	Stores the error code that occurred in the FB.

FB details

Item	Description	
Available device	Target module	FX5-CCLIEF
	CPU module	FX5U CPU, FX5UC CPU
	Engineering tool	GX Works3 Version 1.025B or later
Language	Ladder diagram	
Number of basic steps	81 steps The number of steps of the FB in a program depends on the CPU module used, input and output definition, and the option setting in GX Works3 ("Minimize the temporary area."*1).	
Processing	<ul style="list-style-type: none"> When i_bEN (Execution command) is turned ON, the number is set to the station number specified with the set station number. If an error occurs while setting the own station number, o_bErr (Error completion) turns ON, and the error code is stored in o_uErrId (Error code). Refer to  Page 24 Error code for details on the error codes. 	
FB compilation method	Macro type	
FB operation	Pulsed execution (multiple scan execution type)	
Timing chart of I/O signals	<p>[For normal completion]</p>  <p>[For error completion] (For instruction error)</p> 	
Restrictions or precautions	<ul style="list-style-type: none"> This FB does not include the error recovery processing. Program the error recovery processing separately in accordance with the required system operation. This FB uses the GP.UINI instruction. The module parameter "Station Setting Method" must be set to "Set with Program" to enable the GP.UINI 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. However, because the GP.UINI instruction which is a pulse instruction in the FB is used, if a write is performed while the FB is executed, the instruction may not be executed, and o_bOK (Normal completion) and o_bErr (Error completion) may not turn on. If this happens, turn i_bEN (Execute command) from off to on again. This FB cannot be used in an interrupt program. Do not use this FB in programs that are executed only once, such as a subroutine program or FOR-NEXT loop, because i_bEN (Execution command) cannot be turned off and the normal operation cannot be acquired. Always use this FB in programs that can turn off i_bEN (Execution command). Every input must be provided with a value for proper FB operation. Set the module parameters in GX Works3 in accordance with the connected equipment and system. For the module parameters, refer to the  MELSEC iQ-F FX5 User's Manual (CC-Link IE). 	

*1 This setting is supported in GX Works3 Version 1.015R or later. The number of basic steps may vary greatly depending on the setting.

Error code

Error code (hexadecimal)	Description	Action
D000H to DFFFH	This error code is the same as the error code that occurs with the own station number setting (GP.UINI) instruction.	Refer to the  MELSEC iQ-F FX5 User's Manual (CC-Link IE)

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REVISIONS

Revision date	Revision	Description
May 2016	A	First Edition

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