

Think Automation and beyond...



# PLC & SX8R Communication Parameter Setting Procedure 1.0





- 1. FC6A Plus and SX8R: Modbus TCP Protocol
- 2. FC6A Plus and SX8R: EtherNet/IP protocol
- 3. Mitsubishi PLC and SX8R: CC-Link IEF Basic protocol
- 4. KV Nano PLC and SX8R: EtherNet/IP protocol



Step1: Define shared memory allocation between client and server according to the remote IO system configuration



Shared memory setting Modbus Client Modbus Server#1 FC6A Plus CPU SX8R-ECB4 Slot D100 System Satus 1-word #0 D101 Control Register 1-word FC6A-M24BR4 Slot INPUT M100-M117 Data 16-bit #1 M120-M127 OUTPUT Data 8-bit Modbus Server#2 SX8R-ECB4 Slot D200 System Satus 1-word #0 D210 Control Register 1-word FC6A-N16B4 Slot M200-M217 INPUT #1 Data 16-bit FC6A-R164 Slot M220-M237 OUTPUT #2 16-bit Data FC6A-J4CN4 D201 Data 1-word AI Ch.0 D202 Status 1-word D203 Data 1-word AI Ch.1 Slot D204 Status 1-word #3 D205 Data 1-word AI Ch.2 D206 Status 1-word D207 Data 1-word AI Ch.3 D208 Status 1-word

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#### Step2: Configure communication settings for SX8R (Modbus Server#1) using SX8R Configurator





#### Step3: Check the Modbus address allocation of the shared memory of SX8R (Modbus Server#1)



	Modbus Serve	er#1				
	SX8R-ECB4		:			
System Satus		1-word	Slot			
Control Register	Control Register 1-word					
F	C6A-M24BR4					
INPUT	Data	16-bit	Slot			
OUTPUT	Data	8-bit				

Reset Communication Settings elect the Modbus TCP Ser heck the address allocation hared memory.	rver tab and on of the 100001 - 100016 Total Modbus Address 300001 Total	English v 🕜 • Size (Bits) 16 16 5ize (Words) 1 1
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cription tem Status	Modbus Address 300001 - 100016 Total Modbus Address 300001 Total	Size (Bits) 16 16 Size (Words) 1 1
cription cription tem Status	Modbus Address           100001 - 100016           Total           Modbus Address           300001           Total	Size (Bits) 16 16 Size (Words) 1 1
cription tem Status	100001 - 100016 Total Modbus Address 300001 Total	Size (Words)
cription tem Status	Total Modbus Address 300001 Total	16 Size (Words)
cription tem Status	Modbus Address 300001 Total	Size (Words)
cription tem Status	Modbus Address 300001 Total	Size (Words)
tem Status	300001 Total	1
	Total	1
		-
cription	Modbus Address	Size (Bits)
	000001 - 000008	8
	Total	8
cription	Modbus Address	Size (Words)
er Controller Control Register	400001	1
	Total	1
	ription cription er Controler Control Register ed Memory List button n image file.	ription Modbus Address 000001 - 000008 Total  ription Modbus Address er Controller Control Register 400001 Total  ed Memory List button n image file.

#### Step4: Download the setting data to SX8R (Modbus Server#1)

Project.rmcp - SX8R Con	figurator		- 🗆 🗙 💽 Project.rmcp - SX&R C	Configurator	- 0	×
File Online		English	ish 🗸 🧭 🔹 File Online		English 🗸	Ø ·
Download	Image: Second state of the setting data to the Setti	X8R	Download Lyp	load Monitor Batch Monitor Factory Reset Cor Online	munication Settings	
Module Configuration	from the Download menu.		Module Configuration	Basic Settings Modbus TCP Server		
Name:	Download	×	Name:	Download	×	^
IP Settings Ethernet Port 1: IP Address:	Network Adapter: Intel(R) Ethernet Connection (13) I219-LM Timeout [s]: 3	~	IP Settings Ethernet Port 1: IP Address:	Network Adapter:         Intel(R) Ethernet Connection (13) I           Timeout [s]:         3	219-LM V	
Subnet Mask: Default gateway:	Name         IP Address           O         𝔅         Modbus Server≠1         192.168.1.40	Port Number         MAC Address         Search           2102         •         00:03:78:AC:00:44         Add	Subnet Mask: Default gateway:	Name         IP Ad           ●         ☆         Modbus Server≠1         192,16	Iress Port Number MAC Address Search 1.1.40 2102 00:03:78:AC:00:44 Add	
IP Address: Subnet Mask: Default gateway:		Delete	Echemic Port 2: IP Address: Subnet Mask: Default gateway:	SXBR Cc	Download has been completed successfully.	
No. Communication I			No. Communication	n M	3 📉	
2 Unused 3 Maintenance Con 4 Maintenance Con		Download Cancel	2 Unused 3 Maintenance C 4 Maintenance C		If the download is successful, a completion screen will pop up. Click the OK button to complete.	
Password	_	Click the Download button to st	Password	_		
Download Password Password:	Upload Password Password:	downloading to SX8R.	Download Password Password:	Password:		
Confirm Password:	Confirm Password:		Confirm Password:	Confirm Password:		
Self Diagnostic			Self Diagnostic			
Mode : Edit		2007w	- Mode : Edit			+

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#### Step5: Configure communication settings for SX8R (Modbus Server#2) using SX8R Configurator

Project.rmcp - SX8R Configurator	– 🗆 X .	Project.mcp - SX8R Configurator
Ele <u>Qnine</u>	English 🗸 🕜 🔹	Ele Quine English V 🕜 *
Download Upload Monitor Factory Reset Communication Settings		Download Upload Monitor Eatch Monitor Factory Reset Communication
Module Configuration       Basic Settings         Verify       Read Module Configuration         Total Lateral Dimension: Approximately 118.0mm       Click the Read Module Configuration button to read the connected IO module configuration.         (The IO module must be connected to the CV and the CV an	nput Module × utput Module × Ixed I/O Module × /O Module ×	Name:       Modbus Server#2       Sets the administrative name of the SX8R         IP Settings       Remote IO system. The maximum number of characters is 16. Alphabets, numbers, and symbols may be used.
SX8R-ECB4       Configure	on Interface Module ¥	Default gateway:       0.0.0.0         Ethernet Port 2:       IP Address:         IP Address:       192.168.1.43         Subnet Mask:       255.255.255.0         Default gateway:       0.0.0.0         Connection         No.       Communication Mode         I       Modbus TCP Server         2       Etherly IP Adaptor         3       Subnet Mask:         2       Etherly IP Adaptor         4       Maintenance Communication Server         4       Maintenance Communication Server
Mode : Edit	100% - +	Pownkad Password       □ Upload         ● Communication Timeout:       ● Self Diagnostic         Self Diagnostic       ● SX8R setting data.Since we are not setting passwords this time, we will turn off the check box for password setting.         ● Turn off digital output when communication timeout occurs       ●         ▲ nalog 1/0 Module Status       ●         ● Include status of analog outputs in shared memory       ●         ● Include status of analog outputs in shared memory       ●



#### Step6: Check the Modbus address allocation of the shared memory of SX8R (Modbus Server#2)



	Modbus Server	r#2	
S	X8R-ECB4		
System Satus		1-word	Slot #0
Control Register	1-word		
FC	Slot		
INPUT	Data	16-bit	#1
F	C6A-R164		Slot
OUTPUT	Data	16-bit	#2
F	C6A-J4CN4		
ALCH 0	Data	1-word	
AI CH.U	Status	1-word	
ALCh 1	Data	1-word	
AI ON.I	Status	1-word	Slot #3
ALCE 2	Data	1-word	
AI On.2	Status	1-word	
ALCh 2	Data	1-word	
AI CR.5	Status	1-word	

File	Onlin	ne				English 🗸 🥳
Downle Iodule (	oad Config	Upload M Nuration Basic Settings	onitor Batch Monitor Online Modbus TCP Server	Select the Modbus TCP     check the address alloca	Server tab and ation of the	
nput Rel	ay:			shared memory.		
Slot	]	I/O Module	Device Address	Description	Modbus Address	Size (Bits)
	1 F	FC6A-N16B4	10000 - 10017		100001 - 100016	16
					Total	16
nput Reg	gister:					
Slot	J	I/O Module	Device Address	Description	Modbus Address	Size (Words)
	0 SX8R D8020		D8020	System Status	300001	1
			D0040	AI0:Data	300002	1
			D0041	AI0:Status	300003	1
			D0042	AI1:Data	300004	1
		CCA MONIA	D0043	AI1:Status	300005	1
	3 1	C6A-J4CN4 D0044		AI2:Data	300006	1
			D0045	AI2:Status	300007	1
			D0046	AI3:Data	300008	1
			D0047	AI3:Status	300009	1
					Total	9
oil Relay	/:					
Slot	]	I/O Module	Device Address	Description	Modbus Address	Size (Bits)
	2 F	FC6A-R164	Q0000 - Q0017		000001 - 000016	16
					Total	16
lolding R	egiste	er:				
Slot	]	I/O Module	- Address	Description	Modbus Address	Size (Words)
anna mai	0 9	SX8R	2 1	Upper Controller Control Register	400001	1
					Total	1
					-	

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#### Step7: Download the setting data to SX8R (Modbus Server#2)

Project.rmcp - SX8R Configurator	- 🗆 🗙 🗊 Project.rmcp - SX8R Configurator –	- 🗆 ×
File Online English	sh 🗸 🙆 • File Online English	× 🕜 -
Download the setting data to the SX8B	Download Upload Monitor Batch Monitor Factory Reset Communication Contine	
Name: from the Download menu.	X Module Configuration Basic Settings Modbus TCP Server Download X	^
IP Settings     Network Adapter:     Intel(R) Ethernet Connection (13) I219-LM     ✓       Ethernet Port 1:     Image: Second Sec	IP Settings     Network Adapter:     Intel(R) Ethernet Connection (13) I219-LM       IP Address:     Imeout [s]:     3       IP Address:     IN Name     IP Address	
Subnet Mask: O ☆ Modbus Server #2 192.168.1.42 2102 00:03:78:F0:17:44 Default gatev Ethernet Port 2: IP Address: Subnet Mask:	dd lete Subnet Mask: Default gatev Ethemet Port 2: IP Address: Subnet Mask: Subnet Mask: Belete	
Default gates Connection No. Commu 1 Modbus 2 Unused 3 Mainten 4 Maintenance Communication Server Ethernet Port 2 2101 2	cel     Default gatev       No.     Commu       1     Modbus       2     Unused       3     Mainten       4     Maintenance Communication Server	
Password       Upload Password         Download Password       Upload Password         Password:       Password:         Confirm Password:       Confirm Password:	art Download Password Upload Password: Password: Confirm Password: Confirm Password: Confirm Password: Download Password: Confirm Password	

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#### Step 8: Configure communication settings for FC6A Plus CPU (Modbus TCP Client) using WindLDR

	project01.pjw - WindLDR	$ \Box$ $\times$
Home Configuration	Online View	0
PLC Expansion 1 Type Modules Set	enu to set the communication mode.	Config uration so Card
Run/Stop Control Memory Backup	Configure parameters for connections.	
Input Configuration	Connections	
External Memory Devices	No. Communication Mode Interface	The Medhus TCP client configuration screen will per up and
Device Settings	Unused TCP Configure Thereast Bast 1	and part match parameter (Chang 10)
Program Protection	Maintenance Communication Server     Maintenance Communication Server     TCP     Configure     Ethernet Port	set each parameter. (Steps-10)
Self Diagnostic	4 User Communication Client TCP Configure Ethernet Po	Modbus TCP Client ? X
Calendar & Clock	Modbus TCP Server 5 Modbus TCP Client TCP Configure Ethemet Po	Request Execution Settings
Ethernet Port 1	6 Maintenance Arm 3 rver TCP Configure Ethernet Por	🖸 Request Execution Device: 🛛 🔲 💿 Use 📄 💿 Unuse 🗌 Use a single DR for all communication requests 🖉 Keep established connections
Ethernet Port 2	7 Maintener Company Street Top Colored Street	Synchronize with auto ping Configure Update error status only when communication fails
Connection Settings Access Control	<ul> <li>8 Mar Select "Modbus TCP Client" for Ethernet port 1</li> <li>9 Mar from the communication mode pull-down menu.</li> <li>10 Mar</li> </ul>	Req. No.         Function Code         Master Device Address         Data Size         Word/Bit         Remote Host No.         Slave Number (0 to 255)         Modbus Slave Address         Req. Execution Device         Online Status         Error Status           1
	11 Maintenance Communication Server TCP Configure Ethernet Port 2	2
	12 Maintenance Communication Server TCP Configure Ethernet Port 2	3
	13 Maintenance Communication Server TCP Configure Ethernet Port 2	
	14 Maintenance Communication Server TCP Configure Ethernet Port 2	
	15 Maintenance Communication Server TCP Configure Ethernet Port 2	
	16 Maintenance Communication Server TCP Configure Ethernet Port 2	
E E	Communication Port of Modbus RTU Gateway and Pass-Through	9 10 ~
Info W	ОК	
FC6A-D16XXCEE - USB Network:	1:1   Mode: Edit   Rung: 1 Line: 1 Column: 1  Program Size:   0 bytes   85	Basebook         Communication Settings         Import         Export         Use hexadecimal value for slave address         QK         Cancel

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#### Step9: Configure Modbus TCP client settings for Modbus Server#1

<sup>™</sup> 1	CP Client															
Cor	figure the Modbus TCP	client settings	while c	hocking t	ha sharad	memory list	Shared M	lemory								
CO	ated by SY8P Configura	or Pegister the	ID add	Irecking ti	odbus Sor	vor#1 as	Toput Re	lav:								
the	remote host number (	After registratio	n it c	an ha sala	oubus Ser	vei#1 d5	Slot	I/O Module	D	evice Ad	dress Description			Modbus Address		Size (Bits)
	remote nost number. (	Alter registratic	, it c	an be sele	ecteu.)			1 FC6A-M24E	BR4 IC	0000 - IO	0017			100001 - 100016		16
Req.	Function Code	Master	Data	Size Word/B	it Remot	Host No. Slave								Total		16
INO.	and and an and a second s	Device Address	-		No. Down	(01	Input Re	egister:								
1 (	02 Read Input Status M	0100	16	Bit	New Remot	Host	Slot	I/O Module	D	evice Ad	dress Description			Modbus Address		Size (Words)
2		Remote Host			1			0 SX8R	D	8020	System Status			300001 Total		1
3		includice in our												Total		1
		Remote Host:					Coil Rela	ay:			litera en					Cite (D)1-2
4		TD Address		10 160 1 1			Slot	1/O Module	D PA		Idress Description			Modbus Address		Size (Bits)
5		IF Address:	5	92.108.1.9	9			1 1 COA-M24	ykų Q	0000-0	20007			Total		8
6		🔘 Host Name:		•				-								
		🔘 Data Register:	Γ				Slot	I/O Module	D	evice Ad	dress Description			Modbus Address		Size (Words)
/							300	0 SX8R	D	8021	Upper Controlle	r Control Registe	er	400001		3/20 (Words)
8		Port	-	502								<u> </u>		Total		1
9		TOR.		702 <b>•</b>										·····		
Modbus	TCP Client						ð.									
										_						
Request	t Execution Settings		E	ror Status —												
Requ	uest Execution Device:								mmunication r	eau						
	descise with subs size	Assign the devi	ce adc	ress of th	e PLC acco	ording to the sh	nared r	memory								
Sync	nronize with auto ping	created by SX8	R Cont	iguraor.					when commun	licat						
								*			Modbus Client					
Req. No.	Function Code	Master Device Address		Data Size	Word/Bit	Remote Host No.	S	lave Number (0 to 255)	Modbus Slave Address		FC6A Plus CPU	_		Modbus S	Server#1	
1	02 Read Input Status	M0100		16	Bit	: 192.168.1.40 (502)	1		100001		D100		System	m Satus	1-wo	rd Slot
2	04 Read Input Registers	D0100		1	Word	: 192.168.1.40 (502)	1		300001		D101		Contro	ol Register	1-wo	rd
3	15 Force Multiple Coils	M0120		16	Bit	: 192.168.1.40 (502)	1		000001		M100-M117		INPUT	FC6A-M24BF	4 16-bi	t Slot
4	03 Read Holding Registers	D0101		1	Word	: 192.168.1.40 (502)	1		400001		M120-M127		OUTPU	UT Data	8-bit	#1
								+								

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#### Step10: Configure Modbus TCP client settings for Modbus Server#2

	200.01										Shared	Memory						
Cor	nfigur	re the Modbus	TCP	client se	ttinas w	hile cher	ckina t	he sha	red men	norv	Incut	Relay:						
1	inigai				chigo n		l l	C NA L		101 /	Slot	I/O Module	Device Address	Description	Modbus Address		Size (Rits)	1
list	: creat	ted by SX8R C	ontigi	uraor.Re	gister tr	ne IP ado	aress (	DT MODI	ous Serv	er#2	1 JUC	1 EC6A-N16B4	10000 - 10017	Description	100001 - 100016		16	: · · · · · · · · · · · · · · · · · · ·
as	the re	emote host nu	mher	(After	registra	tion it c	an he	selecte	d)			1 100111001	10000 10017		Total		16	
us	che re	smole nose na	mber	. (Aitei	cgistia	, ic co	un be	Jerecce	u.)									
	- 1										Input	Register:		-				
Req.	1.	Function Code	M	aster	Data Size	Word/Bit	Remote H	lost No.	Slave Number	Modbus Slav	/e Slot	I/O Module	Device Address	Description	Modbus Address		Size (Words)	
INO.	•		Device	Address					(0 to 255)	Address		0 SX8R	D8020	System Status	300001		1	
1	02 Read	I Input Status	M0100		. 16	Bit 1:	: 192.168.1.4	0 (502)	1	100001			D0040	Alu:Data	300002			
2	04 Pead	d Input Pagisters	D0100	1	1	Word 1	. 107 169 1 /	0 (502)		200001			D0041	All:Data	200003	-		
	UTREdu	Input Registers	00100		<u> </u>	word 1.	. 192.100.1.4	7 (302)	*	300001	-131		D0042	All.Data	300004	-	1	
3	15 Force	e Multiple Coils	M0120		. 16	Bit 1:	: 192.168.1.4	0 (502)	1	000001		3 FC6A-J4CN4	D0045	AI2:Data	300006		1	1
4	03 Dead	Holding Degisters	D0101		1	Word 1	102 168 1 /	0 (507)		400001			D0045	AI2:Status	300007		1	÷
-	US Kead	I rolaring Registers	00101		<u> </u>	Word I:	, 192.100.1.4	(302)	<u>*</u>	-00001			D0046	AI3:Data	300008		1	: · · · · ·
5	02 Read	Input Status	M0200		. 16	Bit N	lew Remote H	iost 💌	1				D0047	AI3:Status	300009		1	:
6							4	A		2					Total		9	1 C
0			9	Remote Host						r X								1 C
7											Col Re	Hay:	Device Address	Description	Ato disco Address		Cine (Dite)	:
				Remote Host:	-						SIOT	I/O Module	Device Address	Description	Modbus Address		Size (Bits)	
•			-	IP Addres	1	92 168 1 42						2 FC6A-R164	Q0000 - Q0017		- 000001 - 000016		16	
9					° [		<u>.</u>					-			TOLAI		10	
10				O Host Nam	ie:						Holdin	g Register:						
10				C Data Reg	ister	-					Slot	I/O Module	Device Address	Description	Modbus Address		Size (Words)	
				O Data Hog								0 SX8R	D8021	Upper Controller Control Register	400001		1	
															Total		1	÷
				Dant		E00 A												
Mod	dbus TC	CP Client													L			
<b>D</b> -		Transition Cottings						Terror Chat										Modbus Ser
Re	equest E	Execution Settings						Error Stat	us									Modbus Ser
Re	equest E	Execution Settings						Error Stat	us									Modbus Ser SX8R-ECB4
Re	equest E Reque	Execution Settings	i					Error Stat	us			U	se a single DR fo	r all communication requ	D200	Į.	System Satus	Modbus Ser SX8R-ECB4
Re	Reque	Execution Settings	Assia	n the de	vice add	Iress of t	the PL	Error Stat	rding to	the shar	red m	emory	se a single DR fo	r all communication requ	D200 D210	UI.	System Satus Control Register	Modbus Ser SX8R-ECB4
Re	Request E Reque Synchr	Execution Settings est Execut 2 ronize with auto	Assigi	n the de	vice add	lress of t	the PL	Error Stat	rding to	the shar	red m	emory	se a single DR fo pdate error stati	r all communication requ us only when communicat	D200 D210	ĴĴĵ	System Satus Control Register	Modbus Ser SX8R-ECB4 FC6A-N16B4
Re	Request E Reque Synchr	Execution Settings est Execut 2 ronize with auto	Assigi	n the de ed by SX	vice ado (8R Cont	lress of t figuraor.	the PL	Error Stat	rding to	the shar	red m	emory	se a single DR fo pdate error stati	r all communication requ is only when communicat	D200 D210 M200-M217	î Uî	System Satus Control Register INPUT	Modbus Ser SX8R-ECB4 FC6A-N16B4
Re	Request E Reque Synchr	Execution Settings est Execut 2 ronize with auto	Assig	n the de ed by S>	vice ado (8R Cont	lress of t figuraor.	the PL	Error Stat	rding to	the shar	red m	emory	se a single DR fo pdate error stati	r all communication requ is only when communicat	D200 D210 M200-M217	î Uî	System Satus Control Register INPUT	Modbus Ser SX8R-ECB4 FC6A-N16B4 Data
Re	Request E Reque Synchr	Execution Settings est Execut 2 ronize with auto	Assig	n the de ed by S>	vice ado (8R Cont	lress of t figuraor.	the PL	Error Stat C acco	rding to	the shar	red m	emory	se a single DR fo pdate error stati	r all communication requ is only when communicat	D200 D210 M200-M217	U	System Satus Control Register INPUT	Modbus Ser SX8R-ECB4 FC6A-N16B4 Data FC6A-R164
Re	Request E Reque Synchr	Execution Settings est Execut 2 ronize with auto	Assig	n the de ed by S>	vice adc (8R Con	lress of t figuraor. 1aster	the PL	Error Stat	rding to	the shar	red m	emory U	se a single DR fo pdate error statu Slave Numb	r all communication requision of the second se	D200 D210 M200-M217 M220-M237	11 U 1	System Satus Control Register INPUT OUTPUT	Modbus Ser SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data
Re	Reque Reque Synchr Req.	Execution Settings est Execut 2 ronize with auto	Assig create Code	n the de ed by S>	vice ado (8R Con	lress of t figuraor. laster e Address	the PL	Error Stat C acco Data	rding to Size W	the shar	red m	emory	se a single DR fo pdate error statu Slave Numb (0 to 255)	r all communication requ is only when communicat er Modbus Slave Address	D200 D210 M200-M217 M220-M237	11 U	System Satus Control Register INPUT OUTPUT	Modbus Se SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data FC6A-J4CN4
Re	Request E Reque Synchr Req. No.	Execution Settings est Execut 2 ronize with auto Function	Assig create	n the de ed by SX	vice adc (8R Con N Devic	lress of t figuraor. <sup>1</sup> aster e Address	the PL	Error Stat C acco Data	rding to Size W	the shar	red m	emory	se a single DR fo pdate error statu Slave Numb (0 to 255)	r all communication requ is only when communicat er Modbus Slave Address	D200 D210 M200-M217 M220-M237 D201	î l î lî	System Satus Control Register INPUT OUTPUT	Modbus Se SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data FC6A-J4CN4 Data
Re	Request E Reque Synchr Req. No.	Execution Settings est Execut 2 ronize with auto Function 2 Read Input Status	Assig create	n the de ed by SX	vice add (8R Con Devic	lress of t figuraor. <sup>I</sup> aster e Address	the PL	C acco Data	rding to Size W	the shar	red m Re	emory	se a single DR fo pdate error statu Slave Numb (0 to 255)	r all communication requ is only when communicat er Modbus Slave Address	D200 D210 M200-M217 M220-M237 D201 D202	-1 1 1 1 1-	System Satus Control Register INPUT OUTPUT AI Ch.0	Modbus Sei SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data FC6A-J4CN4 Data
Re	Request E Reque Synchr Req. No. 5 0	Execution Settings est Execut 2 ronize with auto Function 12 Read Input Status	Assig. create	n the de	vice add (8R Con N Devic M0200	lress of t figuraor. <sup>I</sup> aster e Address	the PL	C acco Data	rding to Size W	the shar 'ord/Bit Bit	red m Re 2: 192.1	emory U emote Host No. 168. 1.42 (502)	se a single DR fo pdate error statu Slave Numb (0 to 255) 2	er Modbus Slave Address	D200 D210 M200-M217 M220-M237 D201 D202 D202	î î î î	System Satus Control Register INPUT OUTPUT AI Ch.0	Modbus Se SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data FC6A-R164 Data Status
Re	Request E Reque Synchr Req. No. 5 0	Execution Settings est Execut 2 ronize with auto Function 12 Read Input Status	Assig create Code	n the de ed by S>	vice add (8R Con Devic M0200	lress of 1 figuraor. <sup>1</sup> aster e Address	the PL	C acco Data	rding to Size W	the shar ord/Bit Bit	red m Re 2: 192.1	emory 0 emote Host No. 168.1.42 (502)	se a single DR fo pdate error statu Slave Numb (0 to 255) 2	er Modbus Slave Address	D200 D210 M200-M217 M220-M237 D201 D201 D202 D203	Î Î Î Î	System Satus Control Register INPUT OUTPUT AI Ch.0	Modbus Se SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data FC6A-J4CN4 Data Status Data
Re	Request E Reque Synchr Req. No. 5 0 6 0	Execution Settings est Execut 2 ronize with auto Function 12 Read Input Status 14 Read Input Regist	Assig create Code s	n the de ed by SX	vice add (8R Con Devic M0200 D0202	lress of I figuraor. <sup>1</sup> aster e Address	the PL	C acco Data 16 9	rding to Size W	the shar ord/Bit Bit Word	red m Re 2: 192.1 2: 192.1	emory U emote Host No. 168. 1.42 (502) 168. 1.42 (502)	se a single DR fo pdate error statu Slave Numb (0 to 255) 2 2	r all communication requ is only when communicat er Modbus Slave Address 100001 300001	D200 D210 M200-M217 M220-M237 D201 D202 D203 D203 D203 D204	JO J I J	System Satus Control Register INPUT OUTPUT AI Ch.0 AI Ch.1	Modbus Se SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data FC6A-J4CN4 Data Status Data
Re	Request E Reque Synchr Req. 500 600	Execution Settings est Execut 2 ronize with auto Function 12 Read Input Status 14 Read Input Regist	Assig create Code s ters	n the de ed by S>	vice add (8R Con Devic M0200 D0202	lress of t figuraor. <sup>1</sup> aster 'e Address	the PL	C acco Data 16 9	rding to Size W	the shar ord/Bit Bit Word	red m Re 2: 192.1 2: 192.1	emory U emote Host No. 168. 1.42 (502) 168. 1.42 (502)	se a single DR fo pdate error statu Slave Numb (0 to 255) 2 2 2	er Modbus Slave Address 100001 300001	D200 D210 M200-M217 M220-M237 D201 D202 D203 D204 D204 D205	10 Q Q J.	System Satus Control Register INPUT OUTPUT AI Ch.0 AI Ch.1	Modbus Se SX8R-ECB4 FC6A-N16B4 Data FC6A-R164 Data FC6A-ACN4 Data Status Data Status Data

2

··· 1 Word 2: 192.168.1.42 (502)

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03 Read Holding Registers

D0210

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AI Ch.3

D207

D208

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400001

13

Slot #0

Slot

#1 Slot #2

Slot

#3

1-word

16-bit

16-bit 1-word 1-word 1-word

1-word

1-word 1-word

1-word

1-word

Data

Status



# FC6A Plus and SX8R: Modbus TCP communication settings have been completed.



Step1: Define shared memory allocation between scanner and adapter according to remote IO system configuration

System Configuration





Shared	mem <u>ory</u>	setting

anner >U				EtherNET/IP	Ad#1	
		Status	2 byte		SX8R-ECB4	
	Ţ	INPUT	2 byte		FC6A-M24BR1	Slot #1
		Control	2 byte		SX8R-ECB4	
		OUTPUT	2 byte (	(1byte Reserved)	FC6A-M24BR1	Slot #1
				EthorNET/ID	۸d#2	
					Au#2	
		Stat	us	2 byte	SX8R-ECB4	
		INPL	JT	2 byte	FC6A-N16B4	Slot #1
		AD	DATA	2 byte		
		Ch.0	Status	2 byte		
		AD	DATA	2 byte		
		Ch.1	Status	2 byte		Slot #3
		AD	DATA	2 byte	1 COA-J4CN4	3101 #3
		Ch.2	Status	2 byte		
		AD	DATA	2 byte		
		Ch.3	Status	2 byte		
		Control	2 byte		SX8R-ECB4	
		OUTPUT	2 byte		FC6A-R164	Slot #2
				CONFIDE		16

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#### Step2: Configure communication settings for SX8R (EtherNet/IP Adpter#1) using SX8R Configurator





#### Step3: Check the address allocation of the EtherNet/IP shared memory in SX8R (EtherNet/IP Adpter#1)



EtherNET/IP Ad#1					
Status	2 byte	SX8R-ECB4			
INPUT	2 byte	FC6A-M24BR1	Slot #1		
Control	2 byte	SX8R-ECB4			
OUTPUT	2 byte (1byte Reserved)	FC6A-M24BR1	Slot #1		

Project.rn	mcp - SX8R Configurat	tor				- 🗆 X
File 0	Inline				English	<ul> <li>Ø -</li> </ul>
		<b>4</b>	<b>1</b>			
Download	Upload	Monitor Batch Monitor	Factory Reset Communication			
		Online	1			
Module Con	figuration Basic Se	EtherNet/IP Adaptor				
ihared Mem	lory		Select the Ethe address allocation	rNet/IP Adpter tab and check the ion of the shared memory.		
Slot	I/O Module	Device Address	Description	Offset (Bytes)	Size	(Bytes)
0	SX8R	D8020	System Status	Onset (bytes)	0	2
1	FC6A-M24BR4	I0000 - I0017			2	2
				Total		4
OUT (0->T):						
Slot	I/O Module	Device Address	Description	Offset (Bytes)	Size	(Bytes)
0	SX8R	D8021	Upper Controller Control R	egister	0	2
1	EC6A-M24PP4	Q0000 - Q0007		-	2	2
	T COA-PIZTORT	Reserved area			2	2
				Total		4
Save	Shared Memory list	Save EDS file				
Mode : Edit	2				135% -	
		Click on the Save Sha	ared Memory List butto	on to save the file as		
		an image file EDC file	a can be saved but for	r this setup		
		procodure we will us	the EDS files availab	lo on IDEC's EC site		
		procedure, we will us	e the EDS files availab	ie on idec s ec site.		

## IDEC

#### Step4: Download the setting data to SX8R (EtherNet/IP Adpter#1)

Project.mcp - SX8R Configurator ×	Project.rmcp - SX8R Configurator	- ×
File Online English 🗸 🧭 •	File Online English	- 🔘 -
Download 1 Monitor Batch Monitor Factory Reset Communication Estinger	Download Upload Montor Batch Montor Factory Reset Communication Settings	
Name: from the Download menu.	Name: Download X	^
IP Settings       Network Adapter:       Intel(R) Ethernet Connection (13) 1219-LM         Ethernet Port 1:       IP Address:       Image: Subnet Mask:         Subnet Mask:       Name       IP Address         Default gateway:       EtherNet/IP Ad#1       192.168.1.40         Subnet Mask:       Default gateway:         Default gateway:       EtherNet/IP Ad#1         Default gateway:       EtherNet/IP Ad#1         Default gateway:       EtherNet/IP Ad#1         Default gateway:       EtherNet/IP Ad#1         Default gateway:       EtherNet/IP Ad#1	IP Settings       Network Adapter:       Intel(R) Ethernet Connection (13) 1219-LM         Ethernet Port 1;       IP Address:       3         Subnet Mask:       Default gateway:         Ethernet Port 2:       IP Address:         Subnet Mask:       SX8R Configurator         Default gateway:       Imediating at eway:         Default gateway:       Imediating at eway:         Onnection       OK         No.       Communication	
1       Extended by Ad         2       Extended by Ad         3       Maintenance Co         4       Maintenance Constraints associated by Addition and Concel         Password       Click the Download button to start downloading to SX8R.         Confirm Password:       Confirm Password:         Self Diagnostic       Self Diagnostic		
Mode : Edit	Mode : Edit	+



#### Step5: Configure communication settings for SX8R (EtherNet/IP Adpter#1) using SX8R Configurator





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#### Step6: Check the address allocation of the EtherNet/IP shared memory in SX8R (EtherNet/IP Adpter#1)

Monitor

Project.rmcp - SX8R Configurator

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Upload

Online

File

0

Download



					House comparation basic second.	S Ethemet/IF Adaptor				
			Shared Memory	Shared Memory		Select the EtherNet/IP Server tab and check the				
					IN (T->O):		address allocation of the s	snared memory.	I	
					Slot I/O Module	Device Address	Description	Offset (Bytes)	Si	ze (Bytes)
		EtherNET/IF	PAd#2		0 SX8R	D8020	System Status		0	2
					1 FC6A-N16B4	I0000 - I0017			2	2
Stat	115	2 hvte	SX8R-FCR4			D0040	AI0:Data		4	2
Stat	us	2 Dyte	SXON-LOD4			D0041	AI0:Status		6	2
INPL	JT	2 byte	FC6A-N16B4	Slot #1		D0042	AII:Data		8	
	DATA	2 byte			3 FC6A-J4CN4	D0043	AII:Status		10	
ChO	0	2 2) 10				D0044	AI2:Ddld		14	
Cn.0	Status	2 byte				D0045	AI2.Data		14	
AD	DATA	2 byte				D0047	AI3:Status		18	2
Ch.1	Status	2 byte						Total		20
۵۵	DATA	2 byte	FC6A-J4CN4	Slot #3	OUT (0->T):					
Ch 2	0	2 0 ) 00			Slot I/O Module	Device Address	Description	Offset (Bytes)	Si	ze (Bytes)
011.2	Status	2 byte			0 SX8R	D8021	Upper Controller Control Register		0	2
AD	DATA	2 byte			2 FC6A-R164	Q0000 - Q0017			2	2
Ch.3	Status	2 byte				2	]	Total		4
Control	2 byte		SX8R-ECB4		Save Shared Memory list	Save EDS file	li en the Caus Chared Morean (	List button to any the file		
OUTPUT	2 byte		FC6A-R164	Slot #2	Mode : Edit	an i	image file.EDS files can be save	ed, but for this setup	: as	
						pro	cedure, we will use the EDS file	es available on IDEC's EC s	site.	

Factory Reset

11

Communication Settings

IDEC

#### Step7: Download the setting data to SX8R (EtherNet/IP Adpter#2)

🗊 Project.rmcp - SX8R Configurator — 🗆 🗙	Project.mcp - SX8R Configurator	- 🗆 ×
File Online English 🗸 🕐 -	File Online	English 🗸 🙆 🔹
Download 1 Monitor Batch Monitor Factory Reset Communication Settings	Download Upload Monitor Factory Reset Communication Settings	
Module Config Download the setting data to the SX8R	Module Configuration Basic Settings EtherNet/ID Adaptor	
Name: from the Download menu.	Name:	× •
IP Settings Intel(R) Ethernet Connection (13) I219-LM V	IP Settings Network Adapter: Intel(R) Ethernet Connection (13) 1219+LM	
Ethernet Port 1: Timeout [s]: 3	Ethemet Port 1: Timeout [s]: 3	
IP Address: Name IP Address Port Number MAC Address Search	IP Address: IP Address Port Number MAC Address	Search
Subnet Mask: O 🔗 EtherNET/IP Ad # 2 192.168.1.42 2102 00:03:78:F0:17:44 Add	Subnet Mask:         Image: SubnetMask:         Image: SubnetMask:         <	Add
Default gatew Delete	Default gatew	Delete
Ethernet Port 2:	Ethernet Port 2:	
Subnat Made	Subnat Made	
Default natew		
	SX8R Configurator X	
Connection	Connection	
No. Commu	No. Commu	
1 EtherNe	1 EtherNe	
2 Ethernie Download Cancel	2 Etherite Download	Cancel
4 Maintenance Communication Server Ethemet Port 2 2101	4 Maintenar Communication Server Ethemet Port 2 210	
	If the download is successful,	a 📃
Password Click the Download button to start	Password completion screen will pop up	
Password: Password: Password: Password: A Password: Pass	Password: Password: Click the OK button to comple	te.
Confirm Password:	Confirm Password:	
Mode : Edit	Mode : Edit	100% - +



Step8: Configure communication settings for FC6A Plus CPU (EtherNet/IP Scanner) using WindLDR Download the EDS file from the IDEC EC site and import the EDS file into WindLDR.



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Step9: Add SX8R EDS file to the scan list and configure CIP connection settings for EtherNet/IP Adpter#1

				Shared Memory				
Net/IP setting				IN (T->0):				
therNet/IP setting	CIP Connection Setting			Slot I/O Module	Device Address	Description	Offset (Bytes)	Size (Byt
- Scan list: Number of CIP connection	Node name: SX8R-ECBx	Trigger of send:	Cyclic	0 SX8R 1 EC6A-M248R4	D8020	System Status		2
- 1. SX8R-ECBx (0.0.0.0)	CIP Connection name: Exclusive Owner(exclus	ive- 💌 COS Inhibit time:	0 🔹 [msec]				Total	4
Exclusive owner[14_100/001	Timeout: RPI x 16	Control Register:	D0010 D0010 - D0014					
	Configuration		<u> </u>	Slot I/O Module	Device Address	Description	Offset (Bytes)	Size (By
Sets the top a	address of the control regis	ster, which occu	ipies 5 words.	0 SX8R	D8021	Upper Controller Control Register		0
· · · · ·	PDT: 10 fmmarl	Tag of device	<u> </u>	1 FC6A-M24BR4	Q0000 - Q0007 Reserved area			2
	CIR Connection type: Point to point	No. address Siz	re[word] Occupied device address		Reserved area		Total	
	CIP Connection type: Point to point  Instance ID: 100	No. advected size	ne IN data top add	dress and data size i	n words accor	ding to	Total	

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#### Step10: Configure target settings for EtherNet/IP Adpter#1 from scanlist





#### Step11: Add SX8R EDS file to the scan list and configure CIP connection settings for EtherNet/IP Adpter#2

2		Shared Memory	EtherNe	et/IP Adapte	er#2	
CIP connection s	ettings (control register, first device, size)	IN (T->O):				0 (0-t
CII COINCECION S		Slot I/O Module	Device Address	Description	Offset (Bytes)	Size (Bytes
		1 ECCA N16R4	10000 - 10017	System Status		2
erNet/IP setting		1 COANTODY	D0040	AI0:Data		4
		i l	D0041	AI0:Status		6
CID Connection Date lists Number	CIP Connection Setting		D0042	AI1:Data		8
Scan list: Number of CIP connection	Node name: SY8R-FCRy Tringer of send: Cyclic		D0043	AI1:Status		10
L 1 EtherNET/IP Ad =1 (192 168 1		3 FC6A-J4CN4	D0044	AI2:Data		12
Exclusive Owner[IN_100/01]	CIP Connection name: Exclusive Owner(exclusive • COS Inhibit time: 0 • [msec]		D0045	AI2:Status		14
=- 2. SX8R-ECBx (0.0.0)	Timeout: RPI x 16 Control Register: D0120 D0120 - D0124		D0046	AI3:Data		16
Exclusive Owner[IN 100/OUT	Configuration 7		D0047	AI3:Status		18
	<u></u> 3				Total	
Sets the top	address of the control register, which occupies 5 words					4
Sets the top	dadress of the control register, which occupies 5 words.	OUT (0->T):				
	RPI: 10 Coupied device [msec] No. Top of device Size[word] Occupied device address	Slot I/O Module	Device Address	Description	Offset (Bytes)	Size (Byt
	CTP Connection type: Point to point	0 SX8R	D8021	Upper Controller Control Register		0
	1 D0100 - D0109	2 FC6A-R164	Q0000 - Q0017			2
	Instance ID: 100 2 4	<b>4</b>			Total	
EDS management     DEC CORPORATION     W982-CU100(1.1)     FC6A-016FXCEE(1.2)     FC6A-016FXCEE(1.2)     FC6A-016FXCEE(1.2)     FC6A-032FXCEE(1.2)     FC6	The memory map created by         OUT (0->T) [Send data to the target]       RPI:         RPI:       10 (msec)         CIP Connection type:       Point to point (msec)         Instance ID:       200 (msec)         2       5         3       Sets the OUT data top addres         Total data size:       Total data size:	ess and data size in work the SX8R Configurator	p <b>rds</b> according to	D100 D101 D102 D103 D104 D105 D106 D107		

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#### Step12: Configure target settings for EtherNet/IP Adpter#1 from scanlist





# FC6A Plus and SX8R: EtherNet/IP communication settings have been completed.

## Mitsubishi PLC and SX8R:CC-Link IE Field Basic protocol



Step 1: Define shared memory allocation between master and slave according to the remote IO system configuration







Shared memory setting

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#### Step 2: Configure communication settings for SX8R (CC-Link IE Field Basic Slave #1) using SX8R Configurator





#### Step 3: Check the address allocation of the shared memory of SX8R (CC-Link IE Field Basic Slave #1)



	¥1			
1	INPUT	16-bit	FC6A-M24BR1	Slot #1
2	(Reserved)	48-bit		
5	OUTPUT	8-bit	FC6A-M24BR1	Slot #1
6	(Reserved)	56-bit		
9	Status	1-word	SX8R-ECB4	Slot #0
10	(Reserved)	31-word		
17	Contorol Register	1-word	SX8R-ECB4	Slot #0
18	(Reserved)	31-word		

Project.rr	ncp - SX8R Configurator				
File	Online				
		4	<b>1</b>		
Downloa	d Upload M	Monitor Batch Monitor	Factory Reset Communication		
•		Online	1 Settings		
Module Co	nfiguration Basic Settings	CC-Link IE Field Basic S	Select the CC-Link IE	Field Basic Slave tab and che	eck the
Shared Mer	nory		address allocation of	f the shared memory.	
RX:		1			
Slot	I/O Module	Device Address	Description	Link Device Address Number	Size (Bits)
	FC6A-M24BR4	I0000 - I0017		0 - F	16
		Reserved area			48
				Total	64
RWr:					
Slot	I/O Module	Device Address	Description	Link Device Address Number	Size (Words)
(	SX8R	D8020	System Status	0	1
		Reserved area			31
				Total	32
DV.					
Slot	I/O Module	Device Address	Description	Link Device Address Number	Size (Rite)
3101	FC6A-M24PP4	00000 - 00007	Description		Size (Dics)
-	L I COA-I-IZ TOINT	Recerved area		0-7	56
		Reserveu died		Total	50
				Total	τυ
RWw:					
Slot	I/O Module	Device Address	Description	Link Device Address Number	Size (Words)
(	) SX8R	D8021	Upper Controller Control Register	0	1
		Reserved area			31
				Total	32
Number of o	Shared Memory list	Save CSP + file	Click the Save Shared M as an image file.Click or save the file.The CSP+	lemory List button to save th n the CSP+ File Save button file is saved in ZIP format.	ne file to

### FX5U and SX8R: CC-Link IE Field Basic

IDEC

#### Step4: Download the setting data to SX8R (CC-Link IE Field Basic Slave #1)

Project.rmcp - SX8R Configurator	Project.mcp - SX8R Configurator
File Online English 🗸 🕐 🔹	File Online
Download Upload Monitor Batch Monitor Factory Reset Communication Settings	Image: Configuration     Image: Configuration     Image: Configuration       Module Configuration     Basic Settings     CC-Link IE Field Basic Slave
Module Configural Download the setting data to the SX8R	Shared Ptemory
Name: from the Download menu.	RX:
IP Settings     Network Adapter:     Intel(R) Ethernet Connection (13) 12194.M       Ethernet Port 1:     Imeout [s]:     3       IP Address:     3	Slot         I/O Module         Device Address         Description         Link Device Address Number         Size (Bits)           1         FC6A-M24BR4         10000 - 100 Reserved a         Download         X
Subnet Mask:     Name     IP Address     Port Number     MAC Address     Search       Default gateway:	RWr:     Intervet [s]:     3       Slot     I/O Module     Device Add       0     SX8R     D8020       0     Reserved z       1     Image: provide the current of the current
Connection No. Communication 1 EtherNet/IP Ad 2 Experience Co 3 Maintenance Co 4 Maintenance Communication perver Extremet Fort 2 222	1       FCGA-M24BR4       Q0000 - Q         Reserved a       Reserved a         Slot       I/O Module       Device Add         0       SX8R       D8021         Reserved a       If the download is successful, a         Completion screen will pop up
Password Click the Download button to start	Save Shared Memory list Save CSP+ file Click the OK button to complete.
Password: Confirm Password: Confirm Password: Confirm Password: Confirm Password: Confirm Password: Confirm Password: +	



#### Step 5: Configure communication settings for SX8R (CC-Link IE Field Basic Slave #2) using SX8R Configurator

Droject.rmcp - SX8R Configurator		– 🗆 X	Project.rmcp - SX8R Configurator
Eile <u>Q</u> nline		English 🗸 🙆 🔹	File Online
Image: Constraint of the second se	Click the Read Module Configuration button to read the connected IO module configuration. (The IO module must be connected to the SX8R and the PC must be connected to the SX8R with a LAN cable.)	but Module * tput Module * ved I/O Module * O Module * n Interface Module *	Image: Settings       Collink IE Field Bask Slave         Name:       Image: Collink IE Field Bask Slave         Name:       Image: Collink IE Field Bask Slave         P Settings       Collink IE Field Bask Slave         Image: Collink IE Field Bask Slave       Sets the administrative name of the SX8R Remote IO system. The maximum number of characters is 16. Alphabets, numbers, and symbols may be used.         Subnet Mask:       255.255.25.0         Default gateway:       0.0.0.0         Ethernet Port 2:       Image: Platest
SX8R-ECB4	✓ Configure		Connection         No.       Communication Mode       Send       Interface       Port Number       Access       Alow Access by IP Address         1       CC-Link IE Field Basic Slave       4       0(1) Ethemet Port 1       61450         2       Modus TO Server       Select CC-Link IE Field Basic Slave from       5         3       CC-Link IE Field Basic Slave       6         4       Maintenance Communication Server       5
L			Password
			Download Password       Upbad Password         Confrm Password:       Image: Confrm Password         Self Diagnostic       5    Write and read passwords can be set for SX8R setting data.Since we are not setting passwords this time, we will turn off the
			<ul> <li>✓ Turn off digital output when communication timeout occurs</li> <li>✓ Turn off analog output when communication timeout occurs</li> </ul>
			Analog I/O Module Status
Mode : Edit	Ц	100%	☑ Include status of analog inputs in shared memory       ☑ Include status of analog outputs in shared memory       Mode : Edit
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#### Step 6: Check the address allocation of the shared memory of SX8R (CC-Link IE Field Basic Slave #2)



	CC-Link IEFB #2							
3	INPUT	16-bit		FC6A-N16B4	Slot #1			
4	(Reserved)	48-bit						
7	OUTPUT	16-bit		FC6A-R164	Slot #2			
8	(Reserved)	48-bit						
11	Status	1-word		SX8R-ECB4	Slot #0			
12	AD	DATA	1-word					
	Ch.0	Status	1-word					
12	AD	DATA	1-word					
10	Ch.1	Status	1-word	ECGA-MCNM	Slot #2			
14	AD	DATA	1-word	1000-14014	5101 #5			
17	Ch.2	Status	1-word					
15	AD	DATA	1-word					
	Ch.3	Status	1-word					
16	(Reserved)	23-word						
19	Contorol Register	1-word		SX8R-ECB4	Slot #0			
20	(Reserved)	31-word						

Project	t.rm	cp - SX8R Configurator				
File	0	nine				
D				N 191		
	<b>_</b>					
Down	load	Upload	Monitor Batch Monitor	Factory Re ommunication Settings		
			Online			
Iodule	Cont	figuration Basic Settings	CC-Link IE Field Basic	Slave		
ound M	lom	-		Select the CC-Link	IE Field Basic Slave tab ar	nd check the
areu n	iem	ory		address allocation	of the shared memory.	
X:				- Dec - Marco		
lot		I/O Module	Device Address	Description	Link Device Address Number	Size (Bits)
	1	FC6A-N16B4	10000 - 10017		0 - F	1
	_		Reserved area			48
					Total	64
Wr:						
lot		I/O Module	Device Address	Description	Link Device Address Number	Size (Words)
	0	SX8R	D8020	System Status	0	
			D0040	AI0:Data	1	
			D0041	AI0:Status	2	
			D0042	AI1:Data	3	
	2	ECGA MCNA	D0043	AI1:Status	4	
	2	I COA-J+CIN+	D0044	AI2:Data	5	
			D0045	AI2:Status	6	
			D0046	AI3:Data	7	
			D0047	AI3:Status	8	
			Reserved area			2
					Total	3
٧.						
Slot		I/O Module	Device Address	Description	Link Device Address Number	Size (Bits)
	2	FC6A-R164	00000 - 00017		0 - F	1
	-		Reserved area			4
	_				Total	6
WW:	-	I/O Madula	Davies Address	Description	Link Davisa Address Number	Cine (Words)
NOL	0		Device Address	Upper Centreller Centrel Register		Size (Words)
	0	JOVC	Beconved area	opper Conditier Conditi Register	0	2
	-		Reserveu drea		Total	2
umber o Sa	of oc	cupied station: 1 station(s) hared Memory list	2 Save CSP+ file	Click the Save Shared M as an image file.Click or save the file.The CSP+	lemory List button to save the CSP+ File Save butto file is saved in ZIP format	e the file on to

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#### Step4: Download the setting data to SX8R (CC-Link IE Field Basic Slave #2)

File Online	
Download     Monitor     Basic Monitor     Factory Reset     Communication Settings	
Module Config Download the setting data to the SX8R	
Name: from the Download menu. X A	
IP Settings     Slot     I/O Module     Device Address     Description     Link Device Address Number     Size (B	ts) ×
Ethernet Port 1: Timeout [s]: 3 C	
IP Address: Name IP Address Port Number MAC Address Search RWr: Timevit fai:	
Subnet Mask: O 🔗 EtherNET/IP Ad#2 192.168.1.42 2102 ° 00:03:78:F0:17:44 Add	
Default gatew 0 SX8R D8020 Name 19 Address Port Number MA Address	Search
Delete         Delete           00041         0         2020	Add
IP Address: D0042 SX8R Configurator X	Delete
Subnet Mask: D0044	
Default gatew DOUAS DOUBLES DOUBLE	
Connection Reserved a Reserved a	
No. Commu	
1 EtherNe Stor I/O Module Device Add	
2 Energy 2 FC6A-R164 Q0000 - Q	iul a
3 Maintena Download Cancel Reserved a	
4 Maintenance Communication Server Ethernet Port 2 2101 2 2	nloto
Site I/O Module Device Address Description	piece.
Password Click the Download button to start 0 5X8R D8021 Upper Controller Control Register 0	1
Download Password Outploading to SX8R	31
Password: Password: Password: Control	52
Confirm Password: Confirm Password:	
Mode : Edit Save Shared Memory list Save CSP+ file	

## FX5U and SX8R: CC-Link IE Field Basic



Step8: Import the SX8R CSP+ file created by SX8R Configurator into GX Works (SX8R CSP+ files can also be downloaded from IDEC's EC site)



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#### Step 9: Create a new project and enable CC-Link IFE Basic settings.



#### Step10: Select SX8R from the module list and configure the network connection.

MELSOFT GX Works3 (Untitled Project) -	[Module Parameter Ethernet Port]									
Project Edit Find/Replace Conve	rt View Online Debug Recording Diagnos	ostics Tool Window	Help							
i 🗅 🔁 🖽 🚭 🗇 🔍	·	·····································	£ \$\$ <b>₽ \$</b> \$1 <b>5</b> \$1 <b>6 0 0</b>	- 📜 🛤 🖬 🞯 🖉 👘 🖓 Maxa	•••					
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	h. Catho.							
Navigation 4 ×	👫 ProgPou (PRG) [Local Label Sett 🐽 ProgPou	u [PRG] [LD] 1Step	Module Parameter Ethernet Port ×					7		
0 <b>⊡</b> • 0⊂ 🔅 All •	Setting Rem List		letting Item //							
* Project	Input the Setting Item to Search	6	Item		Setting			<u> </u>		
Module Configuration			□ IP Address Setting		CC-I	Link IEF Basic Configura	ition			— 🗆 X
t Initial			IP Address	192.168.1.50						
= 🚮 Scan	Basic Settings		Default Gateway	205.205.205.0	: CC-Lir	nk IEF Basic Configurati	on Edit Vi	ew Close with Discarding	the Setting Close with Reflecting the Setting	
ProgPou	CC-Link IEF Basic Settings		Communication Data Code	Binary		Data at Name		Link Come Collins		Module List X
Cocal Label	MODBUS/TCP Settings     External Device Configuration		CC-Link IEF Basic Settings To Use or Not to Use CC-Link IEF Basic Setting	lise		Detect Now		Link Scan Setting		, module List
ProgramBody	Transmission Port Settings		Network Configuration Settings	<pre><detailed setting=""></detailed></pre>	Co	nnected Count	2			CC-Link IEF Basic Selection Find Module My
Event			Refresh Settings	<detailed setting=""></detailed>				1 1 1	DV DV Satting	
🚺 Standby		Colort	Datailad Catting in	Notwork Configurat	i a m	No. Mo	del Name	STA# Station Type	RX/RT Setung RWW/RWT Setung	
No Execution Type		Select L	petalled Setting in	Network Configurat	lion				Points Start End Points Start inc	CC-Link IEF Basic Module (General)
5 FB/FUN		Setting	s to open the confi	auration screen.		<ul> <li>0 Host Station</li> </ul>		0 Master Station		CC-Link IEF Basic Module (Mitsubishi El
🖬 🌆 Label				5		1 SX8R-ECBx		1 Remote Station	64 (1 Occupied Station) 0000 003F 32 0000 1F	Input Module
Device			MELSOFT Transmission Port UDP/IP MELSOFT Transmission Port TCP/IP	Use		2 SX8R-ECBx		2 Remote Station	64 (1 Occupied Station) 0040 007F 32 0020 3F	Output Module
System Parameter								n.		I/O Combined Module
E 🚱 FXSUCPU										Servo Amplifier(MELSERVO-J4 Series)
CPU Parameter										General-Purpose AC Servo
Ethernet Port										GOT2000Series
485 Serial Port										Code Reader
<ul> <li>High Speed I/O</li> <li>Input Response Time</li> </ul>										Inverter(FR-A800 Series)
🛃 Analog Input										Inverter(FR-F800 Series)
Analog Output		í.	Aplanation							III RC
Memory Card Paramete			Set the setting for cyclic transmission. Set the Station No. Number of Occupied Stations IP :	address Subnet Mask and the like for the remote station						Vision Sensor
Module Information			To set the CC-Link IE Field Network Basic, it is requi	red to set the Network Configuration Settings and Refres	sh Setting.					CCIEF Basic Module (IDEC Corporation)
Remote Password										Ethernet Module
								7		SX8R-ECBx Ethernet.com
					<	8			>	
								9.		
						STA#1	STA#2			[Outline]
		L								Bus coupler(CC-LINK IEF Basic)
Connection Dertina	Item List Find Result		Check Restore the Default	Settings				2		[Specification]
Cutch Find					Host Sta	ation 🔤	Deer B			Rated Input Voltage 24V DC
Find Target All *						198	192			Power Supply Fluctuation Range 20.4 to 28.8V
	Progress					122	12	Select the S	X8R-ECBx from the unit list	DC (including ripple)
× 2 v	Cutput Progress				STA#	0				0.85 A (24V DC) When maximum number of
					All Co	nnected		and drag & d	arop it to the nost station.	modules are connected.
					Count	CTA#+2	122 C	This operation	on is performed for the	Allowable Momentary Power Interruption 10ms
					Total	SX8R-ECBX	SX8R-ECBx	number of a	lave stations	Withstand VoltageBetween power and FE
								number of s	lave stations.	terminals 500V AC, 1 minuteBetween LAN
										port and internal circuit 500V AC 1 minute
						<			>	Insulation ResistanceBetween power and FE Y
					in .					

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Step11: Set the number of occupied stations and IP addresses for each slave

<mark>8</mark> .	CC-Link	IEF Ba	sic Configuration													Slave	e #1	{	SI	ave#2	
i co	Link IE	F Basic	Configuration Edit	View Close	e with Discarding	the Setting Close with Re	eflecting th	he Sett	ting							-			RWr:		<b>.</b>
		1	Detect Now	Link	Scan Setting											Module	Configuration	Basic Settings	Slot	I/O Module	D
	Conner	cted Co		Link	Cocurrociting											Shared	Memory			0 SX8R	D
	Connec													~	<b>_</b>	RX:					D
		No.	Model Name	STA#	Station Type	RX/RY Settir	ng		RWw/F	RWr Se	tting	Group No.	RSVD STA	IP Address	Subnet Mask	Slot	I/O Mo	dule			D
T	1000	-				Points	Start	End	Points	Start	End			100 100 0 000			1 FC6A-M	24BR4	-		D
_		0	Host Station	0	Master Station	64 (1 Occupied Station	0000	00.25	22	0000	0015		No Cotting	192.168.3.250	255 255 255 0	-				3 FC6A-J4CN4	D
		1	SXOR-ECBX	1	Remote Station	64 (1 Occupied Station)	0000	003F	32	0000	0025	1	No Setting	192.168.3.1	255.255.255.0						D
		2	SAOK-LEDX	2	Keniote Station	128 (2 Occupied Station)	0040	0071	52	0020	00.54	1	No Secong	192.100.0.2	233.233.233.0	RWr:	I/O Mo	dulo	÷		D
						192 (3 Occupied Station) 256 (4 Occupied Station)										SIUC	0 SX8R	uuie	:		D
							_		J								U Driteri				R
							1														
							<u>+</u>	Set	the n	umb	er of	occupied	d stations a	and IP		RY:			RY:		1-
								add	Iresses	s for	each	slave st	ation accor	rding to		Slot	I/O Mo	dule	Slot	I/O Module	D
								the	share	d m	emor	y map ci	reated by t	he SX8R			1 FC6A-M	124BR4		2 FC6A-R164	Q
	<							Con	nfigura	tor.									-		N
			STA#1 STA#2																-		
	-															RWw:	1/0.11		RWw:	I/O Madula	D
		1.														Slot		dule	SIOL	0 SX8R	
Host	Station	n	1														U SAOK				R
																		-	1		
ST	A#0															Number	of occupied stat	ion: 1 station(s)	Number o	focupied station: 1 sta	tion(c)
All	Conne	cted														- Harrise	or occupied state		ritumber o	i occupied stadon, 1 sta	uontaj
To	tal STA	\#:2															[Outline]			1	
			SX8K-ECBX SX8K-EC	BX													Bus coupler(	ion	asic)		
																	Rated Input \	oltage 24V DC	;		
			<													>	Power Supply	Fluctuation R	ange 20.4	to 28.8V	
Out	tput																			×	

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#### Step12: Perform memory allocation between SX8R remote IO (link side) and FX5U on the refresh setting screen

												CC-L	ink IEFB Master	
10 MELSOFT GX Works3 (Untitled Project) - [Module Parameter Ethernet Port]			MEL!	MELSOFT GX Works3 (Untitled Project) - [Module Parameter Ethemet Port]								FX5U CPU		
Project Edit Fond Replace Convert View Other Debug Records Dagonatic Tool Window Help 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	N () <sup>R</sup> 1 ( ⊗ ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 (	lax.: •••••	4 Project	t Edit Find/Replace			Segnostics Tool Wind 한 값 값 값 값 (Dee Do	iow Help		• <b>,</b> F0 ,	🛛 🛇 📽 🏧 🏠 Max.	RX 128	M0-15 M16-63	1
Prod     Prod       Image: Series     Program       Image: Series <t< td=""><td>Settine</td><td>Select Settin</td><td>Detailer gs to op</td><td>Analog Data Hort Analog Series (1997) Analog Series (1997) Anal</td><td>n Referesh</td><td>o Search Settings F Basis Settings TOP Settings evvice Configuration SCCREEN.</td><td>Contraction of the second seco</td><td>e None Prints Start Pare Points Start 123 00000 64 00000 et the Devi et the Devi Paresh.</td><td>Erd Tree Specify Dr Specify Dr Ce Name</td><td>CPU Side</td><td>Points         Start         End           709         0         127           128         128         255           64         0         65           64         0         127           C Address.         Start         Start</td><td>bit RY 128 bit RWr 64 word</td><td>M64-79           M80-127           M128-135           M136-191           M192-207           M208-255           D0           D1-31           D32           D33           D34           D35           D36           D37           D38</td><td>3 4 5 6 7 8 9 10 11 12 13 14</td></t<>	Settine	Select Settin	Detailer gs to op	Analog Data Hort Analog Series (1997) Analog Series (1997) Anal	n Referesh	o Search Settings F Basis Settings TOP Settings evvice Configuration SCCREEN.	Contraction of the second seco	e None Prints Start Pare Points Start 123 00000 64 00000 et the Devi et the Devi Paresh.	Erd Tree Specify Dr Specify Dr Ce Name	CPU Side	Points         Start         End           709         0         127           128         128         255           64         0         65           64         0         127           C Address.         Start         Start	bit RY 128 bit RWr 64 word	M64-79           M80-127           M128-135           M136-191           M192-207           M208-255           D0           D1-31           D32           D33           D34           D35           D36           D37           D38	3 4 5 6 7 8 9 10 11 12 13 14
Convector Detra. Benaix Prof Result	Link Side						CPU	Side			Settings and Refresh Setting		D39	15
Device Name	Points	Start	End		Target	Devid	ce Name	Points	Start	End		9	D40	16
RX	128	00000	0007F	- 🖨 -	Specif 🗸	М	$\sim$	128	0	127			D41-03	10
RY	128	00000	0007F	- 🖨 -	Specif 🗸	М	$\sim$	128	128	255		RWw	D65-95	18
RWr	64	00000	0003F	- 🗰 -	Specif 🗸	D	$\sim$	64	0	63		word	D96	19
RWw	64	00000	0003F	- 🖨 -	Specif 🗸	D	~	64	64	127	,		097-127	20



# FX5U and SX8R: CC-Link IE Field Basic communication settings have been completed.



Step1: Define shared memory allocation between scanner and adapter according to remote IO system configuration



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#### Step2: Configure communication settings for SX8R (EtherNet/IP Adpter#1) using SX8R Configurator





#### Step3: Check the address allocation of the EtherNet/IP shared memory in SX8R (EtherNet/IP Adpter#1)

DEC	100		
	œ,	8.0	
	THE L		10250
	E.		
			8
: <b>O</b>	<u> </u>		8
8			
and the second s	-		Constant of

	EtherNET/IP Ad#1										
Status	2 byte	SX8R-ECB4									
INPUT	2 byte	FC6A-M24BR1	Slot #1								
Control	2 byte	SX8R-ECB4									
OUTPUT	2 byte (1byte Reserved)	FC6A-M24BR1	Slot #1								

	E. A.L.	-
	English	<u> </u>
Adpter tab and check the		
e shared memory.		
Offset (Bytes)	Size (Bytes)	
	0	2
	2	2
Total		4
Offset (Bytes)	Size (Bytes)	
	0	2
	2	2
	2	2
Total		4
1	35%	
e the file as		
up		
EC's EC site.		
	Adpter tab and check the e shared memory. Offset (Bytes) Total Offset (Bytes) Total Total Total	Adpter tab and check the e shared memory. Offset (Bytes) Size (Bytes) 0 1 Total Offset (Bytes) Size (Bytes) 0 Size (Bytes) 0 1 1 1 1 1 1 1 1 1 1 1 1 1

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#### Step4: Download the setting data to SX8R (EtherNet/IP Adpter#1)

Project.rmcp - SX8R Configurator	Project.mcp - SX8R Configurator	- 🗆 X
File Online English 🗸 🧭 •	File Online	English 🗸 🧭 🔹
Download 1 Batch Monitor Factory Reset Communication Settings	Download Upload Monitor Batch Monitor Factory Reset Communication Contine	
Module Configural Download the setting data to the SX8R	Module Configuration Basic Settings EtherNet/IP Adaptor	
Name: from the Download menu.	Name: Download	×
IP Settings Network Adapter: Intel@) Ethernet Connection (13) 1219-LM ~	IP Settings Network Adapter: Intel(R) Ethernet Connection (13) 1219-LM	
Ethernet Port 1: Timeout [s]: 3	Ethernet Port 1: Timeout [s]: 3	
Subnet Mask: Name IP Address Port Number MAC Address Search	IP Address Subnet Made Name IP Address Port Number MAC Address	Search
Default gateway: EtherNet/JP Ad#1 192.168.1.40 2102 ▼ 00:03:78:AC:00:44 Add	Default gateway:	Add
Ethernet Port 2: Delete	Ethernet Port 2: SX8R Configurator X	Delete
IP Address:	IP Address:	
Subnet Mask:	Subnet Mask: Download has been completed successfully.	
Delibuk gaterney.	Deraunt gateway:	
Connection	Connection	
No. Communication	No. Communication 3	
2 Eliterative Ad	1 Etherhet/IP Ad	ula
3 Maintenance Co	3 Maintenance Co	up.
	4 Maintenance Communication Server Exhemite Poils 2 2202 Click the OK button to com	plete.
Password Click the Download button to start	Password	
Download Password	Download Password     Upload Password	
	Password: Password:	
	Confirm Password: Confirm Password:	
Self Diagnostic	Self Diagnostic	
Node : Edit	Mode : Edit	1200301



#### Step5: Configure communication settings for SX8R (EtherNet/IP Adpter#1) using SX8R Configurator

🔊 Project.rmcp - SX8R Configurator	– 🗆 X .	😰 Project.mcp - SX8R Configurator – 🗆 🗙
Ele Online	English V 🕜 🔹	File Online English 🗸 🖉 •
Ele       Qnine         Download       Upload         Module Configuration       Basic Settings         Verify       Read Module Configuration         Total Lateral Dimension: Approximately 118.0mm       Click the Read Module Connected IO module configuration.         Image: Comparison of the SX8R and the PC must be connected to the SX8R with a LAN cable.)	English V V V	Name:       Cure       Cure         Image:       Image: <td< th=""></td<>
SX8R-ECB4 Configure		1     EtherNet/IP Adaptor     EtherNet/IP Adaptor       2     Modbus TCP Server     EtherNet/IP Adaptor       3     CC-Link IF add Basic Slave     EtherNet/IP Adapter from the       4     Maintenance Communication Server     EtherNet/IP Adapter from the
		Password Password
		✓ Turn off digtal output when communication timeout occurs         ✓ Turn off digtal output when communication timeout occurs         ✓ Turn off digtal output when communication timeout occurs         ✓ Turn off digtal output when communication timeout occurs         ✓ Turn off digtal output when communication timeout occurs         ✓ Turn off digtal output when communication timeout occurs         ✓ Turn off analog output when communication timeout occurs         ✓ Turn off analog 1/0 Module Status
Mode : Edit	100%	✓ Include status of analog inputs in shared memory ✓ Include status of analog outputs in shared memory
		Mode : Edit



#### Step6: Check the address allocation of the EtherNet/IP shared memory in SX8R (EtherNet/IP Adpter#1)



EtherNET/IP Ad#2										
Stat	us	2 byte	SX8R-ECB4							
INPU	JT	2 byte	FC6A-N16B4	Slot #1						
AD	DATA	2 byte								
Ch.0 AD Ch.1	Status	2 byte								
	DATA	2 byte								
	Status	2 byte		Clot #2						
AD	DATA	2 byte	FG0A-J4GN4	5101 #5						
Ch.2	Status	2 byte								
AD	DATA	2 byte		*						
Ch.3	Status	2 byte								
Control	2 byte		SX8R-ECB4							
OUTPUT	2 byte		FC6A-R164	Slot #2						

Project.rn	ncp - SX8R Configurator					- 0	×
File Or	line				English	~	<u>-</u>
Download	Upload Monito	Batch Monitor	Factory Reset Communication Settings				
Module Conf	iguration Basic Settings	EtherNet/IP Adapto	r <b></b>				
ihared Memo	ory		Select the EtherNet/IP Select	erver tab and check the			
IN (T->0):			address allocation of the	shared memory.			
Slot	I/O Module	Device Address	Description	Offset (Bytes)	S	ize (Bytes)	
0	SX8R	D8020	System Status		0		2
1	FC6A-N16B4	10000 - 10017			2		2
		D0040	AI0:Data		4		2
		D0041	AI0:Status		6		2
		D0042	AI1:Data		8		2
2	EC64-14CN4	D0043	AI1:Status		10		2
5	I COA-STCINT	D0044	AI2:Data		12		2
		D0045	AI2:Status		14		2
		D0046	AI3:Data	16		2	
		D0047	AI3:Status		18		2
				Total			20
OUT (0->T):							
Slot	I/O Module	Device Address	Description	Offset (Bytes)	S	ize (Bytes)	
0	SX8R	D8021	Upper Controller Control Register		0		2
2	FC6A-R164	Q0000 - Q0017			2		2
			7	Total			4
Save S	hared Memory list Save	e EDS file	ck on the Save Shared Memor	List button to save the file a	<u> </u>		>
Mode : Edit	11 1	an	image file.EDS files can be say	ved, but for this setup les available on IDEC's EC site	e.	U	+

#### Step7: Download the setting data to SX8R (EtherNet/IP Adpter#2)

Project.rmcp - SX8R Configurator	- 🗆 ×	😰 Project.mcp - SX8R Configurator	- 🗆 ×
File Online	English 🗸 🕜 🔹	File Online	English 🗸 🕜 🔹
Download Monitor Batch Monitor Factory Reset Communication		Download Upload Monitor Batch Monitor Factory Reset Communication Settings	
Module config Download the setting data to the SX8R	×	Module Configuration Back Softinge EtherNet/ID Adaptor	×
Name:         Network Adapter:         Intel(R) Ethernet Connection (13) 1219-LM         ✓           IP Settings         Timeout [s]:         3         •		Name:         Network Adapter:         Intel(R) Ethernet Connection (13) 1219-LM           IP Settings         Timeout [s]:         3	
IP Address:         Name         IP Address         Port Number         MAC Address           Subnet Mask:	Search Add	IP Address:         Name         IP Address         Port. Number         MAC Address           Subnet Mask:	Search Add
Default gatew Ethernet Port 2: IP Address:	Delete	Default gatew Ethernet Port 2: IP Address:	Delete
Subnet Mask: Default gatew		Subnet Mask: Default gatew SX8R Configurator	
No. Commu Connection Commu Commu Commu		Connection         Image: Construction           No.         Communication           1         EtherNet	
2     Cherther     Download       3     Maintena     4       4     Maintenance Communication Server     Ethernet Port 2     2101	Cancel	2     Ethernia     OK     Download       3     Maintena     A     Maintenance Communication Server     Ethernet Port 2     2101	Cancel
Password Download Password Password: Dupload Password: Dupload Pas	n to start	Password Download Password Password: Password: Password: Download Password Password: Passwor	a te.
Confirm Password: Confirm Password:	10045	Confirm Password: Confirm Password:	100%

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#### Step8: Configure the KV Nano and EtheNet/IP communication module from a new project in KV Studio



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#### Step9: Configure EtherNet/IP settings for the EtheNet/IP communication module.



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#### Step10: Download EDS files from IDEC EC site and import EDS files into KV Studio

EtherNet/IP settings         File(F)       Edit(E)       Settings(S)       View(V)       Convert(C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       Image: Convert (C)       E         Image: Convert (C)       Image: Convert (C)       Image: Conver(	DS file(D) Communication Reg() Delete(D) Search(S) Edit comments(E)	ool(T) Help(H) 風 ファイルを開く ファイルの場所(I)	:	- 0	X Q RtherNet/IP Setti	× ngs	×
1 Click on EDS File (D and import the SX8 downloaded from I	Add to scan list(A) Display latest revision(V) Property(P) P → Reg(I) to select R EDS file which is DEC's EC site.	21 ур 79 ФХ	<ul> <li>日本期</li> <li>今週に入って(即日</li> <li>SX8R-ECBx.ed</li> <li>今月に入って(先近</li> <li>IEBS#2</li> <li>JP-IT-JP-AU-S:</li> <li>TEST</li> <li>IEBS#1</li> </ul>	日は含めず)(1) 5 重は含めず)(4) X8R-01 (公開済)	Fie(F) Edit(E) S	ettings(S) View(V) Convert( 6 🖻 🗈 👫 🖾 🌮 🍪 : 192.168.0.10	C EDS file(D) Communication(N) Tool(T) Help(H) C EDS file(D) Communication(N) Tool(T) Help(H) C EtherNet/IP unit Unit list(1) Unit setting(2) Search unit(3) Unit list(1) Unit setting(2) Search unit(3) In DataMan 400 Ser 1.5 DataMan DataMan 400 Ser 1.5 DataMan DataMan 400 Ser 1.5 DataMan DataMan 400 Ser 1.5 DataMan DataMan 400 Ser 1.5 DataMan In Dirasight 2000 S 11.1 In-Sigh In -Sight 79007 11.1 In-Sigh In -Sight 9000 S 11.1 In-Sigh SX8R-ECBx SX8R-ECBx SX8R-ECBx 1.11 EDS for SX8R
Output		-	< ファイル名(N): ファイルの痩類(T)・	SX8R-ECBx.eds	Output	✓ 開く(O) ★センセル	When the EDS file is imported correctly, it will appear in the equipment list. (Subsequent EDS file registration is not required, even if the SX8R system configuration is different.)

#### Step 11: Configure IP settings for the SX8R bus coupler (EtherNet/IP Adapter#1)

EtherNet/IP settings	– 🗆 X	EtherNet/IP settings	- D X
File(F) Edit(E) Settings(S) View(V) Convert(C) EDS file(D) Communication(N)	Tool(T) Help(H)	File(F) Edit(E) Settings(S) View(V) Convert(C) EDS file(D) Communication(N)	Tool(T) Help(H)
	EtherNet/IP unit #		EtherNet/IP unit #
KV-NCIEP[1] : 192.168.0.10	Unit list(1) Unit setting(2)   Search unit(3)	KV-NCIEP[1] : 192.168.0.10	Unit list(1) Unit setting(2)   Search unit(3)
1 - SYSD-FCBy - 192 168 0 1	Unit name Rev. EDS fil ^	1. SYSD_FCBy . 162 169 0 1	Unit name Rev. EDS fil ^
	🚾 DataMan 400 Ser 1.5 DataMan		DataMan 400 Ser 1.5 DataMan
	DataMan 8000 Se 1.5 DataMan		DataMan 8000 Se 1.5 DataMan
	In-Sight 2000 S 11.1 In-Sigh		In-Sight 2000 S 11.1 In-Sigh
	In-Sight 5700 S 11.1 In-Sigh	Initial adapter settings	× 11.1 In-Sigh
Select SX8R-ECBx from the device list and	In-Sight 7900-7 11.1 In-Sigh		11.1 In-Sigh
configure the system by drag & drop operation.	In-Sight 8000 S 11.1 In-Sigh	Node address(A) 1	11.1 In-Sigh
	TDEC IZUMI Corpo	IP address(I) 192 . 1	11.1 In-Sign
	SX8R-ECBx 1.1 EDS for		1.1 EDS for
	×	Connection name	
	< >>	Exclusive Owner	N/OUT >
	SX8R-ECBx[1.1]		
	EDS for SX8R	2	OK Canaal
			OK Cancer
		Set the IP address on	the adapter
Output		initialization screen.	
N Node name IP address Connecti	on RPI[IN] RPI[OUT] (ms) (ms) Time out Re pri	N Node name IP address Connect	ion RPI[IN] RPI[OUT] Time out Re (ms) (ms) Time out pri
II I I Message Verify Setup list	>	I4 4 >>> Message Verify Setup list (	>
Edit	or OK Cancel Apply	Fi	ditor OK Cancel Apply

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#### Step12: Set the communication data size (IN/OUT) of the SX8R bus coupler (EtherNet/IP Adapter#1)

	Se Se	elect Parameter	Setting (P) from	Shared Memor	У					
	th	e Connection S	ettings dialog to	IN (T->0):		Eth	erNet/IP A	dapter#1		
LtherNet/IP settings	se	t the communi	cation data size	Slot I/O M	Module	Device Address	Description	Offset (Bytes)	Size (B	Bytes)
File(F) Edit(E) Settings(S) View(V) Convert(CDS file(D) Co	ommuni (1	N/OUT) in byte	s according to the	0 SX8F	A-M24884	D8020	System Status		2	
📲 🛈 💱 🖳 👗 💼 🐂 📕 📓 🖉 🚳 🛶 🗐 😿 խ 🗎		emory map cre	eated by the SX8R					Total	-	
		onfigurator.								
<pre>KV-NC1EP[1] : 192.168.0.10</pre>		4		Slot I/O M	Module	Device Address	Description	Offset (Bytes)	Size (B	Bytes)
				0 SX8F	2	D8021	Upper Controller Control Reg	gister	0	
					M24BR4	Q0000 - Q0007 Reserved area	-		2	
1: SX8R-ECBx : 192.168.1.40		Add(A) Dele	ete(E)		27			Total		
6 Cut(T)	Ctrl+X	Connection name(C)	Exclusive Owner	~	Setup parameter		×			
Copy(C)	Ctrl+C	Time out(T)		T:96.0ms)						
Paste(P)	Ctrl+V	Time out(1)	KFT 10 V (IN.3 HISTOO	1.50.0113)	Parameter(P)	SX8R-ECE	ax 🗸			
Delete(D)	Delete	Refresh priority(F)	Normai	~	No. Pa	rameter Se	t value Attribute			
					0000 5	Data Oine	DAM			
Select all(A)	Ctrl+A		Setup parameter(P) A	ssign device(D)	0002 Produced	ad Data Size	PAW			
Select all(A) Connection setting(N)	Ctrl+A Ctrl+N	IN (input from adapter)	Setup parameter(P) A	ssign device(D)	0002 Produced 0003 Consum	ed Data Size 4	RW			
Select all(A) Connection setting(N) Transmission adapter settings(E)	Ctrl+A Ctrl+N Ctrl+E	IN (input from adapter) Connection type	Point-to-point	ssign device(D)	0002 Produced 0003 Consum	ed Data Size 4	"Produced Data Si	ze" is the setting for IN	data size and	
Select all(A) Connection setting(N) Transmission adapter settings(E) EtherNet/IP unit reserve(B)	Ctrl+A Ctrl+N Ctrl+E Ctrl+R	<ul> <li>IN (input from adapter)</li> <li>Connection type</li> <li>Connection point</li> </ul>	Point-to-point	ssign device(D) v	0002 Produced 0003 Consum	ed Data Size (4)	"Produced Data Si "Consumed Data Si	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter setwigs(E) EtherNet/IP unit reserve(B) Charles and the setwigs(E)	Ctrl+A Ctrl+N Ctrl+E Ctrl+R	IN (input from adapter) Connection type Connection point Data size	Point-to-point IN_100 1 Word	ssign device(D) ~	0002 Produced	ed Data Size 4	"Produced Data Si "Consumed Data Si	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter settings(E) EtherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter	Ctrl+A Ctrl+N Ctrl+E Ctrl+R # 1)	IN (input from adapter) Connection type Connection point Data size Send trigger	Point-to-point IN_100 1 Word Cyclic	ssign device(D)	0002 Produced 0003 Consum	ed Data Size (4)	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter settings(E) EtherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter and select Connection Settings (N)	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1)	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cy	Setup parameter(P)         A           Point-to-point         IN_100           I         Word           Cyclic         Cyclic           rde)         6.0         ms (2.0 to 1000)	ssign device(D)	0002 Producer 0003 Consum	ed Data Size (*)	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter settings(E) Right click on SX8R-ECBx (Adpter and select Connection Settings (N)	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1)	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyr	Setup parameter(P)         A           Point-to-point         IN_100           IN_100         Cyclic           Cyclic         6.0           ms         (2.0 to 1000)	ssign device(D) v v 0.0ms)	0002 Producer 0003 Consum	ed Data Size (4)	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter settings(E) TetherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter and select Connection Settings (N)	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1)	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyu Production inhibit time	Setup parameter(P)         A           Point-to-point         IN_100           IN_100         Cyclic           Cyclic         6.0           ms         (2.0 to 1000)	ssign device(D) v v 0.0ms)	0002 Producer 0003 Consum	ed Data Size (1)	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter settings(E) Transmission adapter settings(E) EtherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter and select Connection Settings (N)	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1)	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyr Production inhibit time OUT (output to adapter	Setup parameter(P)         A           Point-to-point         IN_100           IN_100         Vord           Cyclic         Cyclic           fcle)         6.0         ms           (2.0 to 1000)	ssign device(D) v v 0.0ms)	Description	ed Data Size (1)	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter settings(E) Transmission adapter settings(E) EtherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter and select Connection Settings (N) Dutput	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1)	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyr Production inhibit time OUT (output to adapter Connection type	Setup parameter(P)         A           Point-to-point         IN_100           IN_100         I           Vord         Cyclic           ccle)         6.0         ms           r)         Point-to-point	ssign device(D) v v 0.0ms)	Description Default value 2 Range 2	ed Data Size (*)	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter setting(s(E) EtherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter and select Connection Settings (N) Dutput	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1)	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyre Production inhibit time OUT (output to adapter Connection type Connection point	Setup parameter(P)         A           Point-to-point         IN_100           IN_100         Word           Cyclic         Color           ccle)         6.0         ms           ms         ms           r)         Point-to-point           OUT_200         OUT_200	ssign device(D)	Description Default value 2 Current set 4	ed Data Size (1) ed Data Size (1) to 482 Byte	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A)  Connection setting(N) Transmission adapter setting(s(E) EtherNet/IP unit reserve(B)  Right click on SX8R-ECBx (Adpter and select Connection Settings (N)  Dutput  Dutput  N Node name IP address	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1) Connection	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyr Production inhibit time OUT (output to adapter Connection type Connection point Data size	Setup parameter(P)         A           Point-to-point         IN_100           1         Word           Cyclic         Color           fclo         ms           (2.0 to 1000)	ssign device(D)	Description Description Default value 2 Range 2 Current set 4 value Remarks	to 482 Byte	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A)  Connection setting(N) Transmission adapter setting(E) EtherNet/IP unit reserve(B)  Right click on SX8R-ECBx (Adpter and select Connection Settings (N)  Output  Nutput  N Node name IP address 1 SX8R-ECBx 192.168	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1) Connection Connection	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyr Production inhibit time OUT (output to adapter Connection type Connection point Data size RPI (communication cyr	Setup parameter(P)         A           Point-to-point         IN_100           1         Word           Cyclic         Color           cle)         6.0         ms           Point-to-point         OUT_200           1         Word           ycle)         6.0         ms	ssign device(D)	Description Default value 2 Range 2 Current set 4 Remarks	to 482 Byte	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter setting(SE) EtherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter and select Connection Settings (N) Output Output N Node name IP address SX8R-ECBx 192.168 Exection Exec	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1) Connection Connection	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyr Production inhibit time OUT (output to adapter Connection type Connection point Data size RPI (communication cyr	Setup parameter(P)         A           Point-to-point         IN_100           1         Word           Cyclic         6.0           rcle)         6.0           Point-to-point         OUT_200           1         Word           ý/cle)         6.0           ms         (2.0 to 1000)           ✓         Keep consistent with IN	ssign device(D)	Description Default value 2 Range 2 Current set 4 value Remarks	to 482 Byte	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	
Select all(A) Connection setting(N) Transmission adapter setting(SE) EtherNet/IP unit reserve(B) Right click on SX8R-ECBx (Adpter and select Connection Settings (N) Output Output Output Starse-ECBx IP address I SX8R-ECBx IP2.168 Exc	Ctrl+A Ctrl+N Ctrl+E Ctrl+R #1) Connection Connection	IN (input from adapter) Connection type Connection point Data size Send trigger RPI (communication cyr Production inhibit time OUT (output to adapter Connection type Connection point Data size RPI (communication cyr	Setup parameter(P)         A           Point-to-point         IN_100           1         Word           Cyclic         6.0           rcle)         6.0           Point-to-point         OUT_200           1         Word           Keep consistent with IN	ssign device(D)	Description Default value 2 Range 2 Current set 4 value Remarks	to 482 Byte	"Produced Data Si "Consumed Data S	ze" is the setting for IN Size" is the setting for O	data size and ut data size.	

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#### Step13: Setting the device allocation for SX8R bus coupler (EtherNet/IP Adapter#1)

Connection settings - 1:SX8R	-ECBx ? X	Device assignment settings X	EthorNot/ID Adoptor#1
Connection list(L)		IN (input from adapter) OUT (output to adapter)	Linemet/IF Adapter#1
No. Connec 1 Click Assign d Settings to op	evice(D) in Connection	Assignment settings Auto assign(A) Bit de vice(B) Manual assign(M) Word de vice(W) Device assign area(D) Leading Size (word) Offset	EtherNET/IP Scanner KV Nano CPU
assingnment	settings dialog.	#1 W00 2 0	W00
Connection name(C) Time out(T)	Exclusive Owner   RPI*16  (IN:96.0ms / OU 5.0ms)	2 Set the first device of IN data.	W01
Refresh priority(F)	Normal   Setup parameter(P) Assign device(D)	Set(S) Delete(E) Reg to assign area(R)	W02 OUT data
IN (input from adapter) Connection type	Point-to-point ~	OK 46542N	W03
Connection point	IN_100 ~	Device assignment settings X	
Data size	2 Word	IN (input from sdspter) OUT (output to sdspter)	
Send trigger	Cyclic 🗸	Assignment settings OUT_200 [2 Word]	
RPI (communication cycle)	6.0 ms (2.0 to 10000.0ms)	Manual assign(W) Word device(W) Offset Assignment Name	
Production inhibit time	- ms	Device assign area(D) 1 W03	Auto assing (A)
OUT (output to adapter)		Leading Size (word) Offset	automatically allocates the
Connection type	Point-to-point ~		allegation devices in averagion
Connection point	OUT_200 ~		allocation devices in succession.
Data size	2 Word	<b>3</b> Set the first device of OUT data.	
RPI (communication cycle)	6.0 ms (2.0 to 10000.0ms)		
	Keep consistent with IN	Set(S) Delete(E) Reg to assign area(R)	
	OK Cancel	ОК <b>+</b> +>22 <i>и</i>	

#### Step 14: Configure IP settings for the SX8R bus coupler (EtherNet/IP Adapter#2)

EtherNet/IP settings	– 🗆 X	EtherNet/IP settings			- 0	×
File(F) Edit(E) Settings(S) View(V) Convert(C) EDS file(D) Communication(N)	Tool(T) Help(H)	File(F) Edit(E) Settings(S) View(V) Convert	(C) EDS file(D) Communication(N) To	ool(T) Help(H)		
📲 🗅 📅 💁 👗 🖿 👘 👘 👘 🚳 🚳 🚳 💌 🗽 計 🥝		📲 🕦 🖹 🔏 👗 🛅 🚔 🚳	🙉 🔍 😿 🖕 😭 🕜			
KV-NC1EP[1] : 192.168.0.10	EtherNet/IP unit #	KV-NC1EP[1] : 192.168.0.10		EtherNet/IP unit		¢
	Unit list(1) Unit setting(2)   Search unit(3)			Unit list(1) Unit setti	ing( <u>2</u> )   Search unit( <u>3</u> )	
		T.				
1: SX8R-ECBx : 192.168.1.40	Unit name Rev. EDS fil ^	1: SX0R-ECBx : 192.168.1.40		Unit name	Rev. EDS fi	.1 ^
Exclusive Owner	DataMan 400 Ser 1.5 DataMan	Exclusive Owner		DataMan 400	0 Ser 1.5 DataMa	n
2. CVD_7/PW - 162 160 1 42	DataMan 8000 Se 1.5 DataMan	2: SX8R-ECBx : 192.168.1.4		DataMan 800	00 Se 1.5 DataMa	n
Exclusive Owner	In-Sight 2000 S II.I In-Sigh	Exclusive Owner	itial adapter settings	× 20	700 S 11.1 In-Sig	h
	In-Sight 7900-7 11.1 In-Sigh	No	ode address(A) 2	79	900-7 11.1 In-Sig	h
	In-Sight 8000 S 11.1 In-Sigh		addraga() 192 168 1	42 80	000 S 11.1 In-Sig	h
Select SX8R-FCBx from the device list and	In-Sight 9000 S 11.1 In-Sigh	IP :		9(	000 S 11.1 In-Sig	h
configure the system by drag & drop operation.	DEC IZUMI Corpo		Connection name		orpo	
configure the system by drug a drop operation	EDS SX8R-ECBX 1.1 EDS for	E	xclusive Owner		1.1 ED5 10	~
	< >					>
	SX8R-ECBx[1.1]		ОК	Cancel		
	EDS for SX8R	2				
			Sat the ID address on the	andantor		
			initialization scroon			
Output	д	Output	initialization screen.			Д.
🖻 💼   🗰 🎜   🗟 🗛   🇱		ĥ li   # <i>5</i> 7   ₨ ₨   ₩				
N Node name IP address Connectio	on RPI[IN] RPI[OUT] (ms) (ms) Time out Re pri	N Node name IP a	address Connection	RPI[IN (ms)	] RPI[OUT] (ms) Time out	Re pri
1 SX8R-ECBx 192.168 DExclusive Owner	[IN_100 6.0 6.0 RPI*16 Normal	1 SX8R-ECBx 192.	.168 Exclusive Owner [	IN_100 6.	0 6.0 RPI*16	Normal
2 SX8R-ECBx 192.168 SExclusive Owner	[IN_100 6.0 6.0 RPI*16 Normal	2 SX8R-ECBx 192.	.168 MP Exclusive Owner [	IN_100 6.	0 6.0 RPI*16	Normal
If f b H Message Verify Setup list	>	I I I Message Verify Setup list				>
Edit	OK Cancel Apply		Editor		OK Cancel A	vila

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#### Step15: Set the communication data size (IN/OUT) of the SX8R bus coupler (EtherNet/IP Adapter#2)

Rendering:       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()         Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()         Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()         Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Connection Settings()       Irrow the Setting for IN data size and the Method in Method in Settings()       Irrow the Connection Settings()       Irrow the Setting for IN data size in Settings()       Irrow the Setting for Out data size in S		2 Select Parameter Setting (P)	EtherNet/IP Adapte	er#2	
21       555       60       Cut17       Cut-X       Setup parameter       Setup parameter       Setup parameter       Setup parameter       Setup parameter       Parameter       Parameter       Parameter       Parameter       Setup parameter       Setup parameter       No       Parameter       No       Parameter       No       Parameter       No       Parameter       Parameter       Parameter       Parameter       Parameter       Parameter       No       Parameter       No       No       Parameter       No       No       Parameter       Parameter       Parameter       No       Parameter       No       No       No       Parameter       No       No       Parameter       No       No       No       Parameter       No       No <td< th=""><th>EtherNet/IP settings File(F) Edit(E) Settings(S) View(V) Convert(C) EDS file(D) unication(N) Image: Converting the set of the</th><th>Connection settings Connection settings Connection settings - 1:SX8R-ECBx Connection list(L) No. Connection Mapplication type 1 Exclusive Owner [IN_100,OUT_200] &amp; exclusive owner</th><th>Shared Memory           IN (T-&gt;0):         Device Address         DV           0         5X8R         D8020         Sy           1         FC6A-N1684         10000 - 10017         D0040           D0041         AI         D0042         AI           D0043         AI         D0043         AI           D0044         AI         D0046         AI           D0046         AI         D0047         AI</th><th>escription Offset (Bytes) ystem Status 10:Data 10:Status 11:Data 11:Status 12:Data 12:Status 3:Data 13:Status Total</th><th>Size (Bytes) 0 2 4 6 8 10 12 14 15 18</th></td<>	EtherNet/IP settings File(F) Edit(E) Settings(S) View(V) Convert(C) EDS file(D) unication(N) Image: Converting the set of the	Connection settings Connection settings Connection settings - 1:SX8R-ECBx Connection list(L) No. Connection Mapplication type 1 Exclusive Owner [IN_100,OUT_200] & exclusive owner	Shared Memory           IN (T->0):         Device Address         DV           0         5X8R         D8020         Sy           1         FC6A-N1684         10000 - 10017         D0040           D0041         AI         D0042         AI           D0043         AI         D0043         AI           D0044         AI         D0046         AI           D0046         AI         D0047         AI	escription Offset (Bytes) ystem Status 10:Data 10:Status 11:Data 11:Status 12:Data 12:Status 3:Data 13:Status Total	Size (Bytes) 0 2 4 6 8 10 12 14 15 18
Image: Weight and the setting.     IP address     Connection point       N     Node name     IP address     Connection point       1     SX8R-ECBx     192.168     Statistic Owner       2     SX8R-ECBx     192.168     Statistic Owner       4     H     Message / Verify / Setup list     C       eccute connection setting.     Edite	2: sX8P.       Cut(T)       Ctrl+X         Copy(C)       Ctrl+C         Paste(P)       Ctrl+V         Delete(D)       Delete         Select all(A)       Ctrl+A         Connection setting(N)       Ctrl+N         Transmission adapter setting(E)       Ctrl+E         EtherNet/IP unit reserve(B)       Ctrl+R         Right click on SX8R-ECBx (Adpter #1) and select Connection Settings (N).       Couput	Add(A)       Delete(E)         Connection name(C)       Exclusive Own         Time out(T)       RPI*16         Refresh priority(F)       Normal         IN (input from adapter)       Setup parameter(P)         Connection type       Point-to-point         Connection point       IN_100         Data size       1         Word       Send trigger         Cyclic          RPI (communication cycle)       6.0         ms       OUT (when the depter)	Setup parameter X Parameter(P) SX8R-ECBx No. Parameter Set value Attribute 0002 Produced Data Size 20 R/W 0003 Consumed Data Size 4 R/W "Produced Data Size 4 Consumed "Consumed	Controller Control Register Total Data Size" is the setting for IN data Data Size" is the setting for Out dat	size and ta size.
	Image       Image <td< td=""><td>Connection type Point-to-point Connection point OUT_200 Data size 1 Word RPI (communication cycle) 6.0 ms (2.0 to 10000.0ms) Keep consistent with IN OK Cancel</td><td>Default value 2 Ranee 2 to 492 Current set 20 Byte value Remarks Restore to default(D) OK Cancel</td><td></td><td></td></td<>	Connection type Point-to-point Connection point OUT_200 Data size 1 Word RPI (communication cycle) 6.0 ms (2.0 to 10000.0ms) Keep consistent with IN OK Cancel	Default value 2 Ranee 2 to 492 Current set 20 Byte value Remarks Restore to default(D) OK Cancel		

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#### Step16: Setting the device allocation for SX8R bus coupler (EtherNet/IP Adapter#2)



![](_page_59_Picture_1.jpeg)

# KV Nano PLC and SX8R: EtherNet/IP protocol communication settings have been completed.