

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





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			

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Download	Upload Moni	tor <u>B</u> atch Monitor	Factory Reset Communication Settings			
		Online	1			
Module Conf	figuration Basic Settings	EtherNet/IP Adaptor				
Shared Memo	ory		Select the EtherNe	et/IP Adpter tab and check the		
IN (T->0):			address allocation	of the shared memory.		
Slot	I/O Module	Device Address	Description	Offset (Bytes)	Size	(Bytes)
0	SX8R	D8020	System Status		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 Regist	ter	0	2
1	FC6A-M24BR4	Q0000 - Q0007			2	2
		Reserved area			-	
				Total		4
Save S	Shared Memory list Sa	ve EDS file				
Mode : Edit	2				135% -	
		an the Caus Cha	and Mamamy List button t	a cave the file as		
	CIICK		a cap be caved but for th	o save the me as		
		age me.eds me	a the EDS files available of	IDEC'S EC sito		
	proce	soure, we will us		IT IDEC 3 LC SILE.		



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

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Fie Online English 🗸 🕜 •	File Online	English 🗸 🕜 🔹
Dowfload I Bontor Batch Montor Factory Reset Communication Settings	Download Lakad Bontor Bath Montor Factory Reset Communication Controe	
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(R) Ethernet Connection (13) 1219-1M V	IP Settings Network Adapter: Intel(R) Ethernet Connection (13) I219-LM V	
Ethemat Port 1: IP Address: 3 0	Ethernet Port 1: Timeout [p]: 3 0	
Subnet Mask: Name IP Address Port Number MAC Address Search	Subnet Mask: Name IP Address Port Number MAC Address See	rch
Default gateway: 0 x2 EtherNet/IP Ad#1 192.168.1.40 2102 00:03:78:AC:00:44 Add	Default gateway: Image: Constraint of the state of the s	dd
Ethemet Port 2: Delete	Ethernet Port 2: SX8R Configurator X	ete
ar noures: Subnet Mask: Default gateway:	IP Address: Subnet Mask: Default gateway:	
No. Communication	Connection OK	
2 Exhemistric Adv	1 Etherhet/P Ad	2
3 Maintenance Co	3 Maintenance Co	a
	4 Mantenance Communication server reunemet Poil 2 2202 Click the OK button to complete	te.
Password Click the Download button to start	Password	
Download Password: Diplad Password:	Download Password Upload Password Password: Password:	
Confirm Password: Confirm Password:	Confirm Password: Confirm Password:	
Self Diagnostic 🗸	Self Diagnostic	
Mode : Edit	Mode : Edit	100%





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)



EtherNET/IP Ad#2							
Status 2 byte SX8R-ECB4							
INPU	JT	2 byte	FC6A-N16B4	Slot #1			
AD	DATA	2 byte					
Ch.0	Status	2 byte		Slot #3			
AD Ch.1 AD	DATA	2 byte					
	Status	2 byte					
	DATA	2 byte	FC0A-J4CN4				
Ch.2	Status	2 byte					
AD Ch.3	DATA	2 byte					
	Status	2 byte					
Control	2 byte		SX8R-ECB4				
OUTPUT	2 byte		FC6A-R164	Slot #2			

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File Online				English	 Ø •
0	4	v			
Download Upload	Monitor Batch Monitor Fa	c <u>t</u> ory Reset Communication Settings			
	Online	1			
Module Configuration Basic	Settings EtherNet/IP Adaptor	<u> </u>			
Shared Memory	N	Select the EtherNet/IP Serv	er tab and check the		
IN (T->0):		address allocation of the sh	ared memory.		
Slot I/O Module	Device Address	Description	Offset (Bytes)	Size (Bytes)
0 SX8R	D8020	System Status		0	2
1 FC6A-N16B4	I0000 - I0017			2	2
	D0040	AI0:Data		4	2
	D0041	AI0:Status		6	2
	D0042	AI1:Data		8	2
3 6064 140014	D0043	AI1:Status		10	2
3 FC0A-J4CN4	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)	Size (Bytes)
0 SX8R	D8021	Upper Controller Control Register		0	2
2 FC6A-R164	Q0000 - Q0017			2	2
			Total		4
Save Shared Memory list	Save EDS file	on the Save Shared Memory L	ist button to save the file	as	>
Mode : Edit	an ima	age file. EDS files can be saved	, but for this setup		±
Mode - Luit	proced	dure, we will use the EDS files	available on IDEC's EC si	te.	



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

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File Online	English 🗸 🧭 🕇	Ø + File Online English ✓	@ -
Download	1 Montor Batch Montor Factory Reset Communication Settings	Download Upload Monitor Batch Monitor Factory Reset Communication Conine	
Module Configu Name:	Download the setting data to the SX8R from the Download menu.	Module Configuration Basic Settings EtherNet/ID Adaptor Name: Download X	^
IP Settings Ethernet Port 1:	Network Adapter: Inte(R) Ethernet Connection (13) I219-UM V Timeout [s]: 3 •	IP Settings Network Adapter: Intel(R) Ethernet Connection (13) 1219-LM Ethernet Port 1: Timeout [s]: 3	
IP Address: Subnet Mask: Default gates	Name IP Address Port Number MAC Address Search ○ ☆ EtherNET/IP Ad#2 192.168.1.42 2102 • 00:03:78:F0:17:44 Add	IP Address: Name IP Address: Port Number MAC Address Search Subnet Mask: 	
Ethernet Port 2: IP Address:	Delete	Ethemet Port 2: IP Address: Subnet Madr.	
Default gatev		Default gatew SX&R Configurator X	
No. Commu 1 EtherNe		No. Commu 1 Ether/Ne 2 Physics	
3 Mainten 4 Mainten	ance Communication Server Ethernet Port 2 2101	3 Maintena OK Download Cancel 4 Maintenance Communication Server Ethernet Port 2 2101 3	
Password Download Pas Password:	sword Upload Password:	Password Upload Password Completion screen will pop up. Password: Password: Password:	
Confirm Pass Mode : Edit	Confirm Password:	Confirm Password: Confirm Password: Mode : Edit	+



Step8: Configure communication settings for FT2J (EtherNet/IP Scanner) using WindO/I-NV4

		project01.pn4 - WindO/I-NV4	
Home Configuration	n Online View Format		Home Configuration Online View Format
Projecti Projec	Project Settings Select Project Settings System Communication Interface Communication Drive Communication Interface Communication Drive Communication Prive Communicati	Stoopen the Settings dialog. 2 2 Caton Driver Network (User Communication (Autorun (Web Server (FIP Server)) Use System Area Perice Address: Perice Address: Out Server (Regard bit in System Area subonatically) Partice Address: Out Segret in Area 3.1 Out Segret in Area 3.2 Out Segret in Area 3.2 Out Segret in Area 3.4 Out Segret in Area 3.5 Out Segret in Area 3.5 Out Segret in Area 3.4 Out Segret in Area 3.5 Out Segret in Area 3.5 Out Segret in Area 3.4 Out Segret in Area 3.5 Out Segret in Area 3.4 Segret Method of 32-bit Numerical Data for HMI Devices: Torm Lower word Out Segret in Area 3.4 Out Segret in Area 3.4 Out Segret in Area 3.4 Serage Method of 32-bit Numerical Data for HMI Devices: <t< th=""><th>Home Configuration Online View Format Project # × 1 [Base Screen]</th></t<>	Home Configuration Online View Format Project # × 1 [Base Screen]
	L		





Step9: Download the EDS file from the IDEC EC site and import the EDS file into WindO/I-NV4





Step10: Add SX8R EDS file to the scan list and configure CIP connection settings for EtherNet/IP Adpter#1



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Step11: Configure target settings for EtherNet/IP Adpter#1 from scanlist







Step12: Add SX8R EDS file to the scan list and configure CIP connection settings for EtherNet/IP Adpter#2

2		Shared	Memory	EtherNe	t/IP Adapte	er#2	
CIP connection	settings (control register first device size)	IN (T-	>0):				c: (D)
CIF CONNECTION :	settings (control register, mist device, size).	Slot	I/O Module	Device Address	Description System Status	Offset (Bytes)	Size (Bytes)
			1 EC6A-N1684	10000 - 10017	System Status		2 2
EtherNet/IP setting			1 1 000 11100 1	D0040	AI0:Data		4 2
B- EtherNet/IP setting				D0041	AI0:Status		6 2
CIP Connection Point list: Number of	CIP Connection Setting	- i -		D0042	AI1:Data		8 2
⊢ Scan list: Number of CIP connection	Node name: SX8R-ECBx Trigger of send: Cyclic 💌	i i	3 EC6A-14CN4	D0043	AI1:Status		10 2
1. EtherNET/IP Ad#1 (192.168.1.	CIP Connection name: Exclusive Owner(exclusive COS Inhibit time: 0 + [msec]			D0044	AI2:Data		12 2
Exclusive Owner[IN_100/OUT	Timeoutt			D0045	AI2:Status		14 2
⊡ 2. SX8R-ECBx (0.0.0.0)	Configuration			D0040	AI3:Statue		18 2
Exclusive Owner[IN_100/001	3			00047	Albistatus	Total	10 20
Coto the ten	address of the central register, which accupies E words					rotar	
Sets the top	address of the control register, which occupies 5 words.	OUT (0	D->T):				
	RPI: 10 - [msec] No. Top of device Size[word] Occupied device address	Slot	I/O Module	Device Address	Description	Offset (Bytes)	Size (Bytes)
	CIP Connection type: Point to point		0 SX8R	D8021	Upper Controller Control Register		0 2
		i	2 FC6A-R164	Q0000 - Q0017		Tabal	2
		i and a second				Iotal	
	0UT (0->T) [Send data to the target] RPI: 10 (msec) RPI: 10 (msec) Instance ID: 200 (msec) 200 (msec) 5 3 5 5 5 10 (msec) 5 10 (msec) 10010 10 (msec) 10010 10 (msec) 10010 10 (msec) 10010 10 (msec) 5 10 (msec) 10010 10 (msec) 10 (msec) 10 (msec) 10 (msec) 10 (msec) 10 (msec) 10 (msec) </td <td>and data the SX8R</td> <td>size in word Configurator.</td> <td>s according to</td> <td>EtherNET/IP Scanne FC6A Plus CPU D100 D101 D102 D103 D104 D105 D106</td> <td></td> <td>5</td>	and data the SX8R	size in word Configurator.	s according to	EtherNET/IP Scanne FC6A Plus CPU D100 D101 D102 D103 D104 D105 D106		5
Drag and drop the ECBx) and add it	e imported eds file (SX8R- to the scan list.	Cancel			D107 D108 D109 D110 D111		

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Step13: Configure target settings for EtherNet/IP Adpter#1 from scanlist







FT2J and SX8R: EtherNet/IP communication settings have been completed.

