

100 / 156 / 188 / 220

Fieldbus System

User Manual E1.1.1

PROFINET

EtherNet/IP

EtherCAT

CC-Link IEFB





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1

1. Review

This manual is organized by organization, so the chapters are connected to each other.

1.1 Manual structure

- 1. Overview section
- 2. Basic safety information

1.2 Typography habits

List: Enumeration is displayed as a list with bullets.

- Vocabulary 1
- Vocabulary 2

Action: The action description is represented by a front triangle.

The result of the action is represented by an arrow.

Military action description 1

→ Action results

Military action description 2

The step program can also be displayed numerically in parentheses.

(1) Step 1

(2) Step 2

Syntax: Digit

Decimal numbers are displayed without additional indicators (e.g., 123), Hexadecimal number display with additional indicator hex (Such as: 00hex) Or with prefix "0X" (Such as: 0×00)

Cross reference: Cross referencing indicates where additional information about this topic can be found.

1.3 Symbol

Explanatory note: This symbol indicates a general note.

Pay attention: This symbol indicates the most important safety notice.

1.4 Acronym

FNI : Network interface
EMC : Electromagnetic compatibility
FE : Functional earthing

I : Standard input O : Standard output CIEFB: CC-Link IE Field Basic

1.5 Viewing angle deviation

The product views and explanations in this manual may deviate from the actual product.



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2. Guide

2.1 Module overview



No.	Name	Code	Description
1	Power connector	PWR	M12, A-Coded (male) 4PIN, communication module and solenoid valvepower supply
2	Bus communication interface	OUT	M12, D-Coded (female) 4PIN, PROFINET, EtherNet/IP, EtherCAT, CIEFB
3	Bus communication interface	IN	M12, D-Coded (female) 4PIN, PROFINET, EtherNet/IP, EtherCAT, CIEFB
4	DIP switch	-	Protocol switching, IP addressand coil settings
5	Identification board	-	Device identification board
6	LEDstatus indicator	-	Indicate running status

2.2 Electrical connections

Power connector



No.	Function				
1	UA	Solenoid valve power supply 24V			
2	GND	Valve terminal/solenoid valve ground 0V			
3	US	Valve island power supply 24V			
4	GND	Valve terminal/solenoid valve ground 0V			

Bus communication interface (OUT / IN) 1



No.	Function				
1	Tx+	Send data +			
2	Rx+	Receive data +			
3	Tx-	Send data -			
4	Rx-	Receive data -			



3. Technical Data

3.1 Operating conditions

ltem	Parameter		
Working temperature	-10~+50°C		
Working humidity	35~85%RH (No condensation)		
Working atmosphere	No corrosive gas		
Storage temperature	-20~+60°C		
Withstand voltage	500 VAC (1 minute)		
Insulation resistance	500 VDC, ≥10MΩ		
Waterproof level	IP54		

3.2 Electric data

ltem	Parameter			
Power consumption of valve island (lus)	≤0.1A (21.6~26.4VDC)			
Total powerconsumption of	≤4A (22.8~26.4VDC)			
Output low level	NPN(+COM)			
Solenoid valve type	Single circuit less than 600mA withsurge protection 24V solenoid valve			
Single load	≤0.4V			

3.3 Communication specifications

ltem	Parameter			
Protocol	PROFINET, EtherNet/IP, EtherCAT, CIEFB			
Cable type	Shielded twisted pair cable minimumSTP CAT5/STP CAT 5e, in line with IEEE 802.3			
Data transfor rate	100Mbps (PROFINET/ EtherCAT)			
Dala lidiisiel iale	10Mbps/ 100Mbps (elf-adaptive EtherNet/IP, CIEFB)			
Number of outputcoils	Up to 48 channels			
File format	PROFINET:XML EtherCAT:XML	EtherNet/IP: EDS CIEFB: CSPP		



4. Dial Code Settings

4.1 IP setting

The default domain under different protocols as shown in the table below. Set the last digit of the IPaddress by dialing.

Letter of agreement	Default domain
EtherNet/IP	192.168.1.xxx
PROFINET	Invalid
EtherCAT	Invalid
CIEFB	192.168.3.xxx



Dial code to set the last digit of IP to X100=1, X10=2, X1=3,

and the IP address under is 192.168.1.123



CIEFB protocol

Dial code to set the last digit of IP to X100=6, X10=2, X1=3, and the IP address under 192.168.3.123 needs to subtract 500



4.2 Protocal switch setting

The color of LED_V9 above the DIP switch X100 indicates the current protocol



X100 X10

X1

No.	X100	X10	X1	Letter of agreement	LED_V9
1	0~2	0~9	0~9	EtherNet/IP	Green
2	3	0	0	PROFINET	Orange
3	4	0	0	EtherCAT	blue
4	5~7	0~9	0~9	CIEFB	white

Steps:

- 1. The equipment is powered off, dial 900;
- 2. Power on the equipment and wait for 15s;
- 3. The equipment is powered off, and the dialing setting protocol is carried out according to the above table
- Power on the equipment and wait for 30s; The device is powered off, dial the corresponding IP address (PROFINET, EtherCAT are invalid);

4.3. Coil number setting

- 1. The equipment is powered off, dial code 950 ;
- 2. Power on the device and wait for the green light inside the dial to flash;
- 3. After the green light flashes, turn the dial switch to set the number of coils (3S after stopping dialing, the set value takes effect)

То

4. Power off the device, dial the corresponding IP address (PROFINET, EtherCAT are invalid);



5. Communication Module Data

5.1 Coil definition

As shown in the figure, define the upper coil as $A0 \sim A15$ from left to right; the lower coil as B0...B15 from left to right;



5.2 Enter diagnostic data

EtherNet/IP, PROFINET, EtherCAT protocol

Puto	Bit							Pomark	
byte	7	6	5	4	3	2	1	0	Nellidik
0	-	-	-	US over- voltage	UA over- voltage	Operating temp.	US under- voltage	UA under- voltage	-
1	B3	A3	B2	A2	B1	A1	BO	A0	
2	B7	A7	B6	A6	B5	A5	B4	A4	Short circuit
3	B11	A11	B10	A10	B9	A9	B8	A8	diagnosis
4	B15	A15	B14	A14	B13	A13	B12	A12	0 normal 1 short circuit
5	B19	A19	B18	A18	B17	A17	B16	A16	
6	B23	A23	B22	A22	B21	A21	B20	A20	
7	B3	A3	B2	A2	B1	A1	BO	A0	
8	B7	A7	B6	A6	B5	A5	B4	A4	Open circuit
9	B11	A11	B10	A10	B9	A9	B8	A8	diagnosis 0 normal 1 short circuit
10	B15	A15	B14	A14	B13	A13	B12	A12	
11	B19	A19	B18	A18	B17	A17	B16	A16	
12	B23	A23	B22	A22	B21	A21	B20	A20	

Mindman

Duto				В	it				Domark
вуте	7	6	5	4	3	2	1	0	Kelliark
0	B3	A3	B2	A2	B1	A1	BO	A0	
1	B7	A7	B6	A6	B5	A5	B4	A4	Short circuit
2	B11	A11	B10	A10	B9	A9	B8	A8	diagnosis
3	B15	A15	B14	A14	B13	A13	B12	A12	0 normal 1 short circuit
4	B19	A19	B18	A18	B17	A17	B16	A16	
5	B23	A23	B22	A22	B21	A21	B20	A20	
6	B3	A3	B2	A2	B1	A1	BO	A0	
7	B7	A7	B6	A6	B5	A5	B4	A4	Open circuit
8	B11	A11	B10	A10	B9	A9	B8	A8	diagnosis
9	B15	A15	B14	A14	B13	A13	B12	A12	0 normal 1 short circuit
10	B19	A19	B18	A18	B17	A17	B16	A16	
11	B23	A23	B22	A22	B21	A21	B20	A20	

CIEFB protocol, RWR area

CIEFB protocol, RX area

Puto				В	it				Pomark
byte 7	7	6	5	4	3	2	1	0	Nellialk
0	_	_	_	US over- voltage	UA over- voltage	Operating temp.	US under- voltage	UA under- voltage	_

5.3 Output data

EtherNet/IP, PROFINET, EtherCAT protocol

Duto				В	it				Pomark
Буге	7	6	5	4	3	2	1	0	Nellidik
0	B3	A3	B2	A2	B1	A1	B0	A0	
1	B7	A7	B6	A6	B5	A5	B4	A4	Coil state
2	B11	A11	B10	A10	B9	A9	B8	A8	0 disconnected
3	B15	A15	B14	A14	B13	A13	B12	A12	1 output
4	B19	A19	B18	A18	B17	A17	B16	A16	
5	B23	A23	B22	A22	B21	A21	B20	A20	
6	The rese restored to comp	The reset coil is short-circuited or open. When the fault needs to be restored, first change to 0x5A, and then change to 0xA5 within 500ms to complete the reset.						_	

CIEFB protocol, RY area

Puto				В	it				Pomark
Dyte	7	6	5	4	3	2	1	0	Rellidik
0	B3	A3	B2	A2	B1	A1	BO	A0	
1	B7	A7	B6	A6	B5	A5	B4	A4	Coil stato
2	B11	A11	B10	A10	B9	A9	B8	A8	0 disconnected
3	B15	A15	B14	A14	B13	A13	B12	A12	1 output
4	B19	A19	B18	A18	B17	A17	B16	A16	
5	B23	A23	B22	A22	B21	A21	B20	A20	

CIEFB protocol, RWW area

Puto				В	lit				Bomark
Буге	7	6	5	4	3	2	1	0	Rellidik
6	The rese restored to comp	et coil is s l, first cha lete the r	hort-circu nge to 0x eset.	ited or op 5A, and t	en. Wher hen chan	n the fault ge to 0xA	t needs to \5 within	be 500ms	_



6

6. EtherNet/IP Communication Configuration



No.	Code		Display	Function		
		Croop	Always on	Working status: the equipment is operating normally		
		Green	Flashing 1HZ	Standby: the device is not configured		
1	мс	Green/ Red	Alternate flashing	Self-test: The device is undergoing a power-on test.		
I	IVIS		Flashing 1HZ	Recoverable failure		
		Red	Always on	Unrecoverable failure		
			Shut down	US no input voltage		
		Croop	Always on	Connected		
		Green	Flashing 1HZ	Not connected		
2	NC	Green/ Red	Alternate flashing	Self-test: The device is undergoing a power-on test		
Z	IN S		Flashing 1HZ	Connection timed out		
		Red	Always on	IP duplicate		
			Shut down	US has no input voltage or no IP address		

(1) MS (2) NS

6.1 LED display and setting



6.1 LED display and setting

EtherNet/IP communication configuration

No.	Code		Display	Function
	ACT1	Vallaur	Flashing	Device (IN) send/receive Ethernet frame
5	ACTI	reliow	Shut down	The device (IN) did not send/receive Ethernet frames
4	1.1/1	Groop	Always on	Device (IN) connected to Ethernet
4	LKI	Green	Shut down	The device (IN) is not connected to the Ethernet
-	ACT2	Vallaur	Flashing	Device (OUT) send/receive Ethernet frame
С	ACIZ	reliow	Shut down	The device (OUT) does not send/receive Ethernet frames
6	142	Groop	Always on	Device (OUT) connected to Ethernet
0	LKZ	Green	Shut down	The device (OUT) is not connected to the Ethernet
	LIC.	Green	Always on	Input voltage is normal
1	03	Red	Flashing	Low input voltage (<18V)
		Green	Always on	The output voltage is normal
8	UA	Red	Flashing	Low output voltage (<18V)
		Red	Always on	No output voltage (<11V)

Pay attention:

Recoverable failure: configuration issue or incorrect protocol switch. Solution: switch to another protocol first, then switch back to the required protocol.

Non-recoverable failure: send it back to the manufacturer for inspection and repair.



6.2 Integrated in AB Studio 5000

Here, you will see an example of how to integrate this moduleinto Studio 5000, taking L16CR PLC as an example:

6.2.1. New Construction:

Open Studio 5000 > NEW Project > choose 1769-L16ER-BB1B > input filename > click Next

New Project				1	? ×
Project Types			Search		×
💰 Logix	D Compa	act GuardLogix® 537 act GuardLogix® 538	70 Safety Controll 30 Safety Controll	er er	Î
	176	59-L16ER-BB1B	CompactLogix™	5370 Controll	er
	176	59-L18ER-BB1B	CompactLogix™	5370 Controll	er
	176	59-L18ERM-BB1B	CompactLogix™	5370 Controll	er
	176	59-L19ER-BB1B	CompactLogix™	5370 Controll	er
	176	59-L24ER-QB1B	CompactLogix™	5370 Controll	er
	176	59-L24ER-QBFC1B	CompactLogix™	5370 Controll	er
	176	59-L27ERM-QBFC1B	CompactLogix™	5370 Controll	er
	176	59-L30ER	CompactLogix™	5370 Controll	er 👻
	Name:	master_valve_test	1		
	Location:	D:\projects		~ B	rowse
		Cancel	Back	Next	Finish

Select 0 Modules > click Finish

Top-L16ER-BB18 CompactLogix™ 5370 Controller mater_valve_test Revision: 31 ♥ Expansion I/O: ● Manger: When online, if the modules present do not match the modules specified in the project, unexpected control may occur. The Expansion I/O setting must match the actual number of modules. Security Authority: No Protection Use only the selected Security Authority for authentication and authorization. Secure With: ● Logical Name <controller name=""> Description: ●</controller>	O New Project				?	×
Revision: 31 × Expansion I/O: Image: When online, if the modules present do not math the modules specified in the project, unexpected control may occur. The Expansion I/O setting must match the actual number of module. Security Authority: Image: Nonexting must match the actual number of module. Security Authority: Image: Nonexting must match the actual number of module. Secure With: Legical Name <controller name=""> Description: Image: Nonexting Name</controller>	1769-L16ER-BB1 master_valve_test	B CompactLogix™ 5370				
Expansion I/O: OModules v A Danger: When online, if the modules present do not match the modules specified in the project, unexpected control may occur. The Expansion I/O setting must match the actual number of modules. Security Authority: No Protection Use only the selected Security Authority for authentication and authorization Secure With: Operation Permission Set Description:	Revision:	31 ~				
Danger When online, if the modules present do not match the modules specified in the project, unseprected control may occur. The Expansion I/O setting must match the actual number of modules. Security Authority: No Protection Use only the selected Security Authority for authentication and authorization Secure With: Cogical Name <controller name=""> Permission Set v Description:</controller>	Expansion I/O:	0 Modules Y				
Security Authority: No Protection Use only the selected Security Authority for authentication and authorization Secure With: Logical Name <controller name=""> Permission Set Description:</controller>		Danger: When online, modules specified in the p The Expansion I/O setting modules.	if the modules prese roject, unexpected co must match the actua	nt do not match ontrol may occur. al number of	the	
Use only the selected Security Authority for authentication and authorization Secure With: Description:	Security Authority:	No Protection		~		
Secure With: Logical Name <controller name=""> Permission Set Description:</controller>		Use only the selected S authorization	ecurity Authority for	authentication ar	nd	
Permission Set	Secure With:	Logical Name <control< p=""></control<>	ler Name>			
Description:		Permission Set		v .		
	Description:					
Consol Back Next Finish		Current Curren	ni Davis	Next	Finish	



6.2.2. Import EDS configuration file Configuration file MVE2-EIP.eds Pull down TOOLS > select EDS Hardware Installation Tool



Continue to the next step to the figure below > click Browser > find the configuration file > next to completion





6.2.3. Add device

Right click EtherNet > New Module



Search 007F11 > select the search result > Create

orm		Clear Filters	Hide Filters
Module Type Ca Analog CIP Motion Conv Communication Communications	tegory Filter	 Module Type Vendor Fil Advanced Energy Industr Dialight Endrest Husser FAND: CORPORTION 	ters
Catalog Number	Description	Vendor	Category 2
007F11	MVE2-EIP	Electro.	Generic Device(k
		~	

6.2.3. Add device

Name the new device > set the IP address (same as the dial code) > OK

Type: Vendor: Parent:	007F11 CTEU-EIP FAS Electronics(Fujian)Co.,Ltd. Local	
Name:	007F11	Ethemet Address
		IP Address:
Module Defi Revision: Bectronic H Connection	1.001 Keying: Compatible Module 4: Exclusive Owner	

Close the interface

007F11		Clear	Fil	ters	Hide Filters
Module Type Cat Analog CIP Motion Conve Communication Communications	egory Filters rter	^	INDER S	Module Type Vendor Filters Advanced Energy Industries, Dialight Endress Mauser FANUC CORPORATION	Inc.
<		>	<		>
Catalog Number 007F11	Description MVE2-EIP			Vendor Electro	Category Generic Device()
<)



6.2.4. Connect to Ethernet

Search for equipment > select PLC-GO Online (note: first confirm the correct valve island IP and protocol type)

Ľ	Path: <non< th=""><th>e></th><th></th><th></th><th></th><th>*</th><th>8 0, 4</th><th></th></non<>	e>				*	8 0, 4	
line		No Forces	▶_ No	Edits	æ		- I (Favo
ARCH	LOGIC C	OMMUNICATI	ONS TOO	LS WINDO	OW HELP			
31	Who Active	(RSLinx Classi	c)				-	×
	Autobrowse	Refresh	13	2			3	
	a Star	THID-1, Ether	met	-		-	<u>G</u> o Onlin	e
	±- ₿	92.168.1.10, 1	1769-L16E	R-BB1B LO	GIX5316ER,	1769	Lipland	
		92.168.1.11, F	NI EIP-50	8-105-M, F	NI EIP-508-1	05-1	Opidad	•
		92.168.1.12, F	NI EIP-50	8-105-M, F	NI EIP-508-1	05-1	Downloa	d
		92.168.1.13, F	NI EIP-50	8-105-M, F 8-105-M, F	NI EIP-508-1 NI EIP-508-1	05-1	Update Firmw	are
		92.168.1.15, F	NI EIP-50	8-105-M, F	NI EIP-508-1	05-1	Close	
		92.168.1.16, 1	NI EIP-50	8-105-M, F	NI EIP-508-1	05-1	Help	
		92.168.1.17, 1	NI EIP-30	2-105-M, F	NI EIP-302-1	05-1	Theip	
		92.168.1.2, FM	I EIP-508	-105-M, FN	I EIP-508-10	5-M		
		00 160 1 0 FM			L CID E00 10	E AZ		

Download the PLC program (customers can write by themselves according to their needs, this example is empty)

I Demine pro	Download offline project 'MASTER' to the controller.							
Condition: The Connected Controlle Con Con Con Serial Number: Sec Con Con Secial Number: Sec Con Con Con Con Con Con Con Con Con Con	r: TEST 1027 1769-1.16ER/B CompactLogix TM 5370 Controller AB_ETHIP-1192.168.1.10 60F0304 ^H No Protection In Remote Run mode. The mode will be changed to prior to download. throller being downloaded to is the system time xes in synchronized controllers, in this chassis or ye be turned off. ected hazardous motion of machinery may occur. initain independent configuration settings that are device during the download of the controller. ices (drives, network devices, 3rd party products) riv loaded before placing the controller into run oper configuration could result in misaligned data equipment operation. Cancel Help							



6.2.4. View input and output parameters

After the device is correctly connected, click Controller Tagsto view the input and output data of the module. There is noabnormality in the input monitoring in the figure below. After 007F11:0.Data[0:5] is set to 16#FF, all the 48 coils willoperate. Data content reference: Chapter 5 Communication Module Data

	NUMBER TOPS TOPS TOPON TOP								
	X Module Properties Local (20/F11.007) Generater Tage - MASTERizantration: x V Converting: Convertentere: Converting: Converting: Converting: Con								
ALCER	Name	II - Value	+ Force Mask	+ Style	Data Type	Description	Constant		
er legs	A FA5_007F11s		(-)	Forced	_0603:007F11_848202				
Jo Handler	F45_007F115.ConnectionFaulted		0	Decimal	800L				
	# FAS_C07F11sLData		(-)	() Decimal	SINT[13]				
	► EAS_007F111Duta(0)		0	0 Decimal	SINT				
ind	▶ EAS_007F11:1.Data[1]		0	0 Decimal	SINT				
25	FAS_007F11:LData[2]		0	Decimal	SINT				
Ares	FAS.007F111Duta[3]		0	Decimal	SINT				
	FAS_007F114Data[4]		0	Decimal	SINT				
cn	FAS_007F111Duta[5]		D	Decimal	SINT				
	▶ FAS_007F111Dute(6)		0	Decimal	SINT				
LISER-EE'IB MASTER	▶ EAS_007F11:1.Duta(7)		0	Decimal	SINT				
ed (/O	▶ FAS_007F11:I.Duta(8)		0	Decimal	SINT				
n VO, 0 Modules	▶ 645_007F111Duta(9)		0	Decimal	SINT				
	▶ EAS_007F11:LDuta[10]		0	Decimal	SINT				
ER-E818 MASTER	FAS_007F111Data(11)		0	Decimal	SINT				
very training and the second sec	FAS_007F111Data(12)		0	Decimal	SINT				
	4 FA5_007F11:0		()	Forced	_0603:007F11_2C2D33.				
	# 645_007F11:0.Data		(-)	{} Hex	SINT[7]				
	FAS_007F11:O.Duta[0]		1644	16#00 Hex	SINT				
	FAS_007F11:O.Duta[1]		16#11	16HIT Hex	SINT				
	FAS_007F11:O.Duta[2]		16#H	16HF Hex	SINT				
	FAS_007F11-O.Duta[3]	2	36#10	16MI Hex	SINT				
	FAS_007F11:O Duta[4]		16#H	16#F Hex	SINT				
	FAS_007F11:O.Duta[5]		7644	16HT Hex	SINT				
	FAS_007F11:O.Duta(6)		15#00	16#E Hex	SINT				
	Local 1:C		(_)	{}	AB Embedded_Discre				
	Local:1:1		(_)	11	AB Embedded_Discre				
	Local:1:0		(-)	1.1	AB Embedded Discre				

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PROFINET

7

7. PROFINET Communication Configuration

	Status Indicator					
 SF BF ACT1 LK1 ACT2 LK2 US UA 	E/IP PN MS/SF RUN NS/BF ERR ACT1 L/A IN ACT2 L/A OUT US L/A OUT US ECT CIE					

No.	Code		Display	Function					
1 SF		Shut down	Working fine						
	Red	Flashing 3s 1HZ	System error						
			Always on	Working fine					
	2		Shut down	No data exchange					
2	BF	Red	Flashing	Bus start					
			Always on	No configuration; or low-speed physical link; or no physical link					
2			Flashing 1HZ	Device (IN) send/receive Ethernet frame					
2	ACTI	Tellow	Always on	The device (IN) did not send/receive Ethernet frames					
Δ	4 1.1/1	Croon	Always on	Device (IN) connected to Ethernet					
4	LKI	Gleen	Shut down	The device (IN) is not connected to the Ethernet					
-	ACTO	Flashing		Device (OUT) send/receive Ethernet frame					
Э	ACIZ	renow	Shut down	The device (OUT) does not send/receive Ethernet frames					
6	241	Croop	Always on	Device (OUT) connected to Ethernet					
0	LNZ	Gleen	Shut down	The device (OUT) is not connected to the Ethernet					
	uc	Green	Always on	Input voltage is normal					
/	03	Red	Flashing	Low input voltage (< 18 V)					
		Green	Always on	The output voltage is normal					
8	UA	Pod	Flashing	Low output voltage (< 18 V)					
		reu	Always on	t (< 11 V)					



7.2 Integrated in SiemensTIA Portal V15

Here, you will see an example of how to integrate this moduleinto TIA Portal V15, taking S7-1200 as an example:

7.2.1. New Construction

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Create a new project > enter the project name > create

	创建新项目	
▲ 打开现有项目	项目名称:	TEST
11/1-261-261	路径:	C:\Users\FAS-03\Documents\Auto
🔵 创建新项目	版本:	V15
● 移植项目	作者: 注释:	FAS-03
● 关闭项目		
2		
● 欢迎光临		

Equipment and network > add new equipment > select the appropriate PLC and CPU model > add

M Siemens - E:\TTA 15 projects\TEST\TES	51		_ # >
			Totally Integrated Automation PORTAL
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		♥打开设备物的	v

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7.2.2. Import GSD configuration file

Configuration file: GSDML-V2.34-Mindman-MVE2-PFN-20200808 Option drop-down > manage general station description



1 browse GSD file path > complete

管理通用站描述	 文件 项目中的 GSI E:1设备描述文件注站) _阅 文件 \GSDML-1	V2.34-Mindma	2 n-MVE2-PFN-20200808	
导入路径的内	容				
☑ 文件		版本	语言	状态	信息
GSDML-V2.34	-Mindman-MVE2-PFN-2	V2.34	英语,德语	已经安装	
<		1111			>
				刪除 安	装取消

7.2.3. Add device

Device and network > search for 007F11 under the hardware catalog > drag MVE2-PFN into 4 places

The Siemens - EXITA 15 projects/TEST/TEST			_ # X
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		Make i	3
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	RC1 09/12/95	+ PLC.1 * GSD device_1 + CRUPHI	
·			- E830
• IE218	4		;
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Click Unassigned > select PLC.PROFINET interface 1

TEST → 设备和网络				
N 网络 🔡 连接 HMI	Ē接 → 品	关系 📅 🐮 🔛	🔟 🔍 ±	
PLC_1 CPU 1215C	MM 州	VE2-PFN VE2-PFN 这種 IO 控制器 PLC_1.PROFINET接口		

M Mindman

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Double-click MVE2-PFN to enter the device overview, configure the output data size in slot 1 according to the number of coils; firstright click to delete the slot 1 configuration, and then drag theparameters to slot 1



Number of coils	Preferences
18	Output 1 Byte
916	Output 2 Byte
1724	Output 3 Byte
2532	Output 4 Byte
3340	Output 5 Byte
4148	Output 6 Byte

7.2.4. Connect PROFINET

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Click to go online > start search > select PLC > go online (note: make sure the protocol type is correct)

3% Siemens - E:UIA 15 projects/IE!	STITEST	_				_						- *
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											Output 6 Evte	
				1							OverLoad Status	1 Byte
		< =	C DALLO							· · · · · · · · · · · · · · · · · · ·	OverLoad Status	2 Dyte
			- 110 cm							6 诊断	OverLoad Status	3 Byte
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→ 外部預文件	Y									-	> 信息	
Portal # B	后	CTEU-PNT									TEST +	

7.2.5. View input and output parameters

After the device is correctly connected, click the monitoring table to view the input and output data of the module. Datacontent reference: Chapter 5 Communication Module Data.

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8. EtherCAT Communication Configuration



No.	Code		Display	Function
			Shut down	Device is in INIT state
1		Croon	Flashing 2.5HZ	Pre-operation: The equipment is in pre-operationstate
I	KUN	Gleen	Flashing 1HZ	Safe operation: the equipment is in a safe operation state
			Always on	Running: the device is running
			Shut down	No error: EtherCAT communication of the deviceis working
2	EDD Dod		Flashing 2.5HZ	Invalid configuration
2		neu	Flashing 1HZ	Local error
			Flashing	Application monitoring time out
	A		Always on	Link: Connect to the Ethernet, do not send/receive EtherNet
3	L/A Green Flashing		Flashing	Activity: The device connects to the EtherNet and sends/receives EtherNet
			Shut down	The device is not connected to the EtherNet
			Always on	Link: Connect to the EtherNet, do not send/receive EtherNet
4	L/A OUT	Green	Flashing	Activity: The device connects to the EtherNet and sends/receives EtherNet
			Shut down	The device is not connected to the EtherNet.
-	110	Green	Always on	Input voltage is normal
5	03	Red	Flashing	Low input voltage (< 18 V)
		Green	Always on	The output voltage is normal
6	UA	Pod	Flashing	Low output voltage (< 18 V)
	Red		Always on	No output voltage (< 11 V)

8.1 LED display and setting



8.2 Integrated in BECKHOFF TwinCATXAE

Here, you will see an example of how to integrate this module into TwinCAT XAE, taking CX5050 PLC as an example:

8.2.1. Add PLC path

Open Edit Routes



Click Add...; Add Route Dialog

toute	Connected	AmsNetId	Address	Туре	Comment	



		×						×
系列 (S)	FX9CP0	~						
0型(T)	m PX6U	~			1	Defend States		Second Second
三行模式(M)						Refresh Status		Broadcast Search
理序语言(G)	······································	~			T. 100	T 00.14-1-1-1		
	***	R:A 1	106 00	AMS Netid	Twinca	US Version	Fingerp	rint
<						_		>
<								>
< Route Nan	ne (Target):	CX-3DB0	0A4		R	oute Name (Remo	te): [> DESKTOP-6GGGT9H
< Route Nan	ne (Target):	CX-3DB0	0A4 6.164.1	.1	R	oute Name (Remo	te): [[> DESKTOP-6GGGT9H
< Route Nan AmsNetId:	ne (Target):	CX-3DB0	0A4 6.164.1	1	R	oute Name (Remo arget Route	te): [> DESKTOP-6GGGT9H Remote Route
< Route Nan AmsNetId: Transport	ne (Target): : Type:	CX-3DB0 5.61.176 TCP_IP	0A4 6.164.1	.1	R	oute Name (Remo arget Route Project	te): [> DESKTOP-6GGGT9H Remote Route O None / Server
< Route Nan AmsNetId: Transport Address Ir	ne (Target): : Type: nfo:	CX-3DB0 5.61.176 TCP_IP 169.254	0A4 6.164.1 4.196.80	.1	R	oute Name (Remo arget Route Project Static	te): [> DESKTOP-6GGGT9H Remote Route None / Server Static Toemocracy
Koute Nan AmsNetId: Transport Address Ir	ne (Target): : Type: nfo: : Name IE	CX-3DB0 5.61.176 TCP_JP 169.254	0A4 6.164.1 4.196.80	.1	R	oute Name (Remo) arget Route Project Static Temporary	te): [> DESKTOP-6GGGT9H Remote Route () Hone / Server () Static () Temporary
Koute Nan AmsNetId: Transport Address Ir	ne (Target): : Type: nfo: : Name	CX-3DB0 5.61.176 TCP_IP 169.254	0A4 6.164.1 4.196.80	.1	R	oute Name (Remo) arget Route Project Static Temporary	te): [I	> DESKTOP-6GGGT9H Remote Route Olione / Server Static O Temporary
 Route Nan AmsNetId: Transport Address Ir Host Connection 	ne (Target): : Type: nfo: : Name	CX-3D80 5.61.176 TCP_IP 169.254 Address 5	0A4 6.164.1 4.196.80		R 1 V	oute Name (Remoi arget Route Project Static Temporary]Advanced Setting	te): [I	> DESKTOP-6GGGT9H Remote Route O Hone / Server

Broadcast Search > Select PLC(CX-3D0A4) > Add Route

Enter the default password "1" > click OK to complete the PLC path addition

Add Remote Route				×
Secure ADS (TwinC/ Self Signed Certifica Check Fingerprint Compare with:	AT 3.1 >= 4024) te EE34BAF81AC3E868A0B891DE	3ABF5A7F9397D0BBBB987E	D12202DE429EA0810C0E	
 Shared Certificate Ar Preshared Key (PSK) 	uthority (CA)		Ignore Common Name	
Remote User Credentials User:	Administrator	Password:	密码 1 ● ● ● ● Cancel	



8.2.2. Add configuration file

Configuration file: MVE2-ECA V4.6.0

Copy the file to the following path to complete the configuration file addition: C:\TwinCAT\3.1\Config\IO\EtherCAT

2件 主页	共享	点音						× (
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* 快速的问		Beckhoff EPP7xxx	2019/11/25 11:36	XML 文档	2,215 KB			
(国) 史面	×	Beckhoff EPP9xxx	2019/10/15 14:54	XML文档	197 KB			
🐥 下戰	*	Beckhoff EPx9xx	2019/11/19 8:25	XML文档	629 KB			
國 文档	R	Beckhoff EQ1xxx	2015/11/12 14:24	XML 实档	22 KB			
- 開片	*	Beckhoff EQ2xxx	2016/11/23 10:42	XML文档	73 KB			
		Beckhoff EQ3xxxx	2016/11/22 11:22	XML文档	1,386 KB			
> 此市18		Beckhoff ER1x0x	2016/11/21 15:46	XML文档	165 KB			
A 100		Beckhoff ER2poor	2016/11/21 14:32	XML 文档	259 KB			
		Beckhoff ER3xxx	2017/6/9 13:35	XML文档	1,177 KB			
		2 Beckhoff ER4xxx	2016/11/22 12:58	XML 文档	318 KB			
		Beckholf ER5xxx	2016/3/14 11:52	XML文档	273 KB			
		Beckhoff ERGoox	2016/3/14 11:52	XML XML	494 KB			
		Beckhoff ER73000	2019/2/14 8:50	XML XM	2,717 KB			
		Beckhoff ER8book	2016/3/14 11:52	XML 文袖	207 KB			
		Beckhoff EtherCAT EvaBoard	2015/2/4 12:57	XML文档	72 KB			
		Beckhoff EtherCAT Terminals	2015/2/4 12:57	XML 文档	53 KB			
		Beckhoff FB1XXX	2017/5/24 12:26	XML文档	49 KB			
		Beckhoff FCxxxx	2015/2/4 12:57	XML 文档	21 KB			
		Beckholl FM3xxx	2018/6/29 15:05	XML文档	367 KB			
		Beckhoff ILxxxx-8110	2015/2/4 12:57	XML 3783	8 KB			
		* MVE2-ECA VA 6.0	2020/10/10 10:01	VAR OAK	14.00			



8.2.3. New Construction

Open TwinCAT XAE software



File > New > Project

G	起始页 - TcXaeShell						
文化	‡(F) 编辑(E) 视图(V)	项目(P) 调试(D) TwinCA	T TwinSAFE	PLC	团队(M)	S
	新建(N)		 t3 	项目(P)	Ctrl+Sh	ift+N	
	打开(O) 起始页(E)		• •	文件(F)	Ctrl+N		
	关闭(C) 关闭解决方案(T)			- 4 × 44	™¤ * × T\v/ir	CA	Ç
	保存选定项(S) 将选定项月存为(A)	Ctrl+S		- 8	最近		
	Save as Archive				上周		
	Send by E-Mail	Ctel - Ch	:#+.c			inCAT Pr	oj

Select TwinCAT XAE Project > enter name > Confirm





8.2.4. Select the target system

SYSTEM-Choose Target System > Select PLC(CX-3DB0A4) > OK

解決方案资源管理器 マリン	TEST1030 4 ×	
〇 〇 〇 台 - 〇 - <i>〇</i> / チー 茂京新売方案売買管理器(Ctrl+1) ア・	General Settings Additional Files	
TREPSET IS 108/07 (* ARE) TEST 108/07 (* ARE) EST 108/07 (* ARE	TwinGAT System Merupt V.1 (Build 450%) Versi Choose Target System Ing Terr Pros 3	gct
SAFETY	Cop HIIS20(#) Comesion Timeod (b) 4 [5]	Tearch ("reidsen)

8.2.5. Add valve terminal

Pull down the IO option > DEVICES-SCAN; for the valve island



Select valve terminal Device 3 (EtherCAT) > OK







8.2.6. Link the PLC program to the valve terminal IO

Define 6 BYTE variables in the PLC program and assign them a value of 255. 255 means that the 8 IO values of the variable connection are all 1. As shown in the figure below, the program realizes that all 48 IO outputs are 1.For specific IO settings, please refer to Chapter 5 Communication Module Data

解决方案没弄能理器	* 9 X											
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an original ripes an original ripes an original ripes an original follow follow follow follow follow follow follow			000976 000976 000976 000976 000976 000976	0 == 255; 1 == 255; 2 == 255; 9 == 255; 4 == 255; 5 == 255;								
Þ 🛃 FlcTask (FlcTask)			_	_	_	_	_	_	_	_	_	MA IL
EST instance		B 2918			_							
C++ ANALITICS ID Project Devices ID Projects ID Proje		些个和	20 8		860		0101	10.0	an and an and an and an	iberse •	29 29	6





Right click the PCL program project (TEST Project) > Generate

Pull down TEST Instance > select the parameter to be associated, right click > Change Link





Select the valve terminal parameters that need to be associated and complete the association



The following icon shows that the association has be successful. After downloading the program, the output of the 48 coils is all 1.

00000-0-0-0-0-	TEST1030.TEST.MAIN						
建築板山大安治理使用部(ひけっ)	D - 第达式	关型	100	准备值	和巴拉	注释	B
SCRONICO J RESEARCH AND	+ OUTPUTO	BYTE	255		96Q*		
A 20 1/0	OUTPUT1	BYTE	255		%Q*		
▲ Till Devices	♦ OUTPUT2	BYTE	255		%Q*		
 Device 3 (EtherCAT) 	OUTPUT3	BYTE	255		%Q*		
image	OUTPUT4	BYTE	255		%Q*		
h Specific	OUTPUTS	BYTE	255		%Q*		
h hourt							
h Dutouts				. .			
h interfaces	1 @ OUTPUTO[255]	255,					
P minocrata	2 @ OUTPUT1 255 :*	255;					
Box 1 (CTEU-ECT)	3 © OUTPUT2 288 1*	2551					
TxPDO 1A00	6 © OUTPUT3[255] 1=	2551					
4 Rv200 1600	5 @ OUTPUT4 255 :=	255;					
The second se	6 © OUTPUT5 255] 1=	255 FETURN					
T Byte Out (0)							100 84
1 Byte Out (2)	建深列曲						
1 Byte Out (3)	整个解决方案	🔕 镭梁 0 🔺	警告0 0 満息7	Clear 生 🛙	E + IntelliSense	 搜索值误列表 	P.
1 Byte Out (4)	3649			项	8	文件	行
P 1 Byte Out (5)	generate boot inf	ormation		TE	ST	PLC.TEST	0
- Teyte Cor(0)	Generate TMC inf	ormation					0
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r moundle	Build Complete	V STORA O WATTERN		CONTRACT (~
A The Adaptalant	O to a set of the	a second and					0



9. CC-Link IEFB Communication Configuration



9.1 LED display and setting

	No.	Code		Display	Function
			Shut down	The module is not connected	
	1			Flashing 2.5HZ	The module is not connected
	I KUN	Green	Flashing 1HZ	The module is not connected	
				Always on	Operation: The device is in operational status
	2 ERR Rec		Ded	Shut down	The module is functioning properly
			Reu	Always on	Communication error
				Always on	Connected but not communicating
	3	L/A IN	Green	Flashing	The module is functioning properly
				Shut down	Not connected
	Gre		Green	Always on	Input voltage is normal
	4	05	Red	Flashing	Low input voltage (<18V)
			Green	Always on	The output voltage is normal
	5	UA	Ded	Flashing	Low output voltage (<18V)
			кеа	Always on	No output voltage (<11V)

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9.2 Integrated in mitsubishi FX5U

Here, you will see an example of how to integrate this module into GX Works3, taking FX5U PLC as an example:

9.2.1. Adding configuration files

Open software (without creating a new project) > Tool > Configuration file management > Login

诊断(D)	工具	(T) 酸口(W) 秘助(H)	
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Select the appropriate CSPP configuration file > Login

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9.2.2. New project file

Project > New > Select series and model > Confirm

系列(S)	📰 FX5CPU	~
机型(T)	🕮 FX5U	~
运行模式(M)		Ŷ
程序语言(G)	🙀 梯形图	~

9.2.3. Basic configuration

Parameters > Module parameters > EtherNet port > Set IP according to project requirements





Setup using CC-Link IEF Basic

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- CC-Link IIF Basie使用有无	使用	
ANERE	(祥織)置)	
- 刷新设置	(详细设置)	
- 1018/5/17건문		

Network configuration settings > Double click for detailed settings > Automatic detection of connected devices

C	C-Link IEF Ba CC-Link IEF <i>网络配置设置</i> 刷新设置	sic设置 Basic使	用有无	使用 <详细设置 <详细设置	> >			
800	C-Link IEF Basic配置							- D X
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The connection shown in the figure below is successful





9.2.4. Configure the starting address

Refresh Settings > Double-click Detailed Settings

使用
〈详细设置〉
〈详细设置〉

Specify the software component name and starting address

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Soft component/buffer storage batch monitoring - Setting D0, D1, D2 (corresponding to RY output data) to 1, all 48 coils can be seen as output

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10. Domain Change

In EtherNet/IP or CIEFB mode, it is necessary to change the default domain. For example, in EtherNet/IP mode, the default domain is 192.168.1.XXX, while in CIEFB mode, it is 192.168.3.XXX. The difference between the two protocols lies in their default domain settings.

10.1 Open configuration software

Open the configuration software MVE2Tool.exe.





10.2 Set IP

In EtherNet/IP mode: Set the DIP switch to 001, and the valve terminal address to 192.168.1.1 (Using EtherNet/IP as an example, the default domain for CIEFB is different). In CIEFB mode: Set the DIP switch to 501, and the valve terminal address to 192.168.3.1.



Set the network card and valve terminal in the same domain. The computer IP address is configured as follows:

 • The computer IP address is configured as follows (S)

 IP Address (I):

 192.168.1.200

 Subnet Mask (U):

 255.255.255.0

 Default Gateway (D):

 192.168.1.1

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10.3 Connect the valve terminal

Please proceed with the valve island connection steps.

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ហ្ Connect	1
and the second se	V1.0
Mi Enter	ndman Industrial Co.Ltd. website:www.mindman.com.tw

Click on the main window (enter the initial interface of the software) "Display Valve Manifold Interface", select the corresponding network card, fill in the correct valve terminal IP, and click "Connect". After the software prompts the successful connection, it will automatically switch to the function interface.



10.4 Write new address



Attention:

After successfully modifying, the valve terminal needs to be powered off. Then, use the DIP switch to modify the last digit of the valve terminal's IP address.

After modification, please annotate the new domain location on the identification board (Only applicable to two communication protocols: EtherNet/IP and CIEFB; PROFINET and EtherCAT do not require modification through this software.)

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