

FNI MPL-332-105-M

IP 67 Module User Manual



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1.1. Manual structure Thismanualisorganizedbyorganization,sothechaptersareinterconnected.Sectio

 n2:Basic
 SafetyInformation.

 Chapter 3: Getting Started Guide
 Chapter 4: Technical data

1.2. Typography	The following typographic conventions are used in this manual.
Enumerate	Theenumerationis displayed as a list with bullets. • Entry 1 • Entry 2
Action	Action descriptions are represented by a front triangle. The result of the action is represented by anarrow. Action description 1 Action result Action description 2 Step programs can also be displayed numerically in parentheses. (1) Step 1 (2) Step 2
Grammar	Number: Decimal numbers are displayed without additional indicators (eg 123) Hexadecimal numbers are displayed with an additional indicator hex (eg: 00hex) or with the prefix
Cross-reference	Cross-references indicate where to find additional information on this topic.
1.3. Symbols	 Notes This symbol indicates a general comment.
	Notice! This symbol indicates the most important safety notice.
1.4. Acronym	FNI FAS Network Interface I Standard input port PN Profinet ECT EtherCAT CIE CC_link IEF Basic EIP Ethernet/IP EMC Electromagnetic Compatibility FE functional ground O Standard output port
1.5. Viewing deviations	The product views and explanations in this manual may deviate from the actual product. They are only left and right solutions



Explain the materials used.

2 safety	uscu.
2.1. E xpected usage	This manual describes as decentralized input and output modules for connection to an industrial network.
	Precautions!
2.2. Install and start	Installation and start-up may only be carried out by trained and specialized personnel. A qualified individual is one who is familiar with the installation and operation of the product and has the necessary qualifications to do so. Any damage caused by unauthorized operation or illegal and improper use is not covered by the manufacturer's warranty. Equipment operators are responsible for ensuring that appropriate safety and accident prevention regulations are followed.
	Debug and check
2.3. General security	Before debugging, you should read the contents of the user manual carefully.
Notes	The system cannot be used in applications where the safety of personnel depends on the functionality of the equipment. intended use
	The manufacturer's warranty coverage and limited liability statement do not cover damage caused by:
	• Unauthorized tampering
	• Improper use
	• Owner/operator's obligations
	This device is an EMC Class A product. This device generates RF noise.
	The owner/operator must take proper precautions when using this equipment. Use only a power source compatible with this device and connect only approved cables.
	Fault
	In the event of a defect or equipment malfunction that cannot be corrected, the equipment must be taken out of operation to avoid possible damage from unauthorized use.
2.4. Corrosion resistance	<pre>Intended use can only be ensured when the enclosure is fully installed. Precautions! FNI modules generally have good chemical and oil resistance characteristics. When used in aggressive media (e.g. high concentrations of chemicals, oils, lubricants and coolants (i.e. low water content)), these media must be checked before the corresponding application material compatibility confirm. If the module fails or is damaged due to this corrosive medium, no claim for defects can be claimed.</pre>
	۰ ،
Dangerous voltage	Precautions!
	Disconnect all power sources before using the equipment!

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3. Getting Started Guide

3.1. Module overview



1 Mounting hole	8 Port 5	15 Port Identification Board
2 Network port 2 Status indicator	9 Port 7	16 Power input port
3 Network port 2	10 Port 6	17 Module indicator
4 Power outlet	11 Port 4	18 Network port 1
5 DIP switch	12 Port 2	19 Network port 1 status indicator
6 Port 1	13 Port Status Indicators	20 Ground connection
7 Port 3	14 Port 0	



3. Getting S	arted Guide
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3.2. Mechanical connection The modules are attached using 2 M6 bolts and 2 washers. Isolation pads are available as accessories.

3.3. Electrical connections

3.3.1 Power interface(L-code)

Definition of power input port



Pin	Function	Describe
1	Us+	+24V
2	Ua-*	0V
3	Us-	0V
4	Ua+*	+24V
FE	Functional ground*	FE

Notes:

1. If possible, supply sensor/module power and actuator power separately.Total current <9A. The total current of all modules is <9A, even when daisy-chaining the actuator power supply. 2. The FE connection from the housing to the machine must be low impedance and kept as short as possible.3.3.2 Network Interface (D-code)

3	4
50	0)
0	0)
2	1 ⁄سر

Pin	Function	
1	Tx+	Send data+
2	Rx+	Receive data+
3	Tx-	Send data-
4	Rx-	Receive data-

Notes:

Unused I/O port sockets must be covered with end caps to meet IP67 rating.



3.3.3 I/O-Port(A-code)



Pin	Function
1	+24V,1A
2	Enter/output
3	0V
4	Enter/output
5	FE

1. For digital sensor input, please follow the input guidelines of EN61131-2,

Type 2.

2. The maximum output current of pins 2 and 4 is 2A. The total current of the module is less than 9A.

3. Unused I/O port sockets must be covered with end caps to meet IP67 degree of protection.-



4.1. size



4.2 Mechanical data

Shell material	Die-cast aluminum case, pearl nickel plated
Housing class according to IEC 60529	IP67 (only in plug-in or plug-in style)
Power interface	L-Code (Male and Female)
Input port/output port	M12, A-Code (8*female)
Size(W*H*D)	65mm*222mm*25.8mm
Installation type	2-Through Hole Mounting
Ground Bus Accessories	M4
weight	About 670g

4.3. Operating conditions

Operating temperature	-5°C ~ 70°C
Storage temperature	-25°C ~ 70°C

4.4. Electrical data

Voltage	18~30V DC, Symbol EN61131-2
Voltage fluctuation	<1%
Input current at supply voltage 24V	<130mA



4.5 Network port

Port	2 x 10Base-/100Base-Tx
Port connection	M12, D-Code
IEEE 802.3 Compliant Cable Types	Shielded twisted pair, min. STP CAT 5/STP
	CAT 5e
Ddata transfer rate	10/100 M bit/s
Maximum cable length	100m
Flow control	Half condition/full condition(IEEE 802.3- PAUSE)

4.6 Function indicator



PT	Green	EtherNet/IP communication protocol
	Yellow	ProfiNet communication protocol
	Blue	EtherCat communication protocol
	White	CC-Link IEField basic communication protocol

ECT Communication Protocol Module Status

LED	State	Function
US	Green	Power is OK
	Red	Greater than 30V or less than 11V
	Flashing red	less than 18V
UA	Green	Power is OK
	Red	Greater than 30V or less than 11V
	Flashing red	less than 18V
SF/MS/RU	Closure	No error, device initialization
N	Green light flashing	Pre-operational: The device is in a pre-operational state
	2.5Hz	Safe Operation: The device is in safe operation
	Green light flashes 1HZ	Running: The device is running
BF/NS/ER	Steady green	No errors, device EtherCAT communication is working
R	Closure	Invalid configuration
	Red light flashes 2.5HZ	local error
	Red light flashes 1HZ	Application watch timeout



EIP communication protocol module status

LED	Show	Function			
	Green light is always on	Working status: The device is running normally			
	Green light flashes 1HZ	Standby: Device not configured			
	Green, red and green flashing alternately	Self-test: The device is undergoing a power-on test.			
SF/MS/RU N	Flashing red 1HZ	Recoverable failures:			
	Steady red light	Unrecoverable failure			
	Closure	US no input voltage			
	Green light is always on	Connected			
	Green light flashes 1HZ	Not connected:			
	Green and red off flashing alternately	Self-test: The device is undergoing a power-on test.			
BF/NS/ER R	Red light flashes 1HZ	Connection timed out			
	Steady red light	IP Duplicate:			
	Closure	US No input voltage or no IP address			
	Green	Input voltage is normal			
03	Flashing red	Low input voltage (< 18 V)			
	Green	The output voltage is normal			
UA	Flashing red	Low output voltage (< 18 V)			
	Red always on	No output voltage present (< 11 V)			

PN communication protocol module status

LED	Show	Function				
	Closure	Works fine				
SF/MS/RU N	Red flashing 3s 1HZ	Bus start				
	Red always on	System error				
	Closure	Works fine				
BF/NS/ER R	Flashing red 2HZ	No data exchange				
	Red always on	No configuration; or slow physical link; or no physical link				
110	Green	Input voltage is normal				
05	Flashing red	Low input voltage (< 18 V)				
	Green	The output voltage is normal				
UA	Flashing red	Low output voltage (< 18 V)				
	Rred always on	No output voltage present (< 11 V)				



CIE communication protocol module status

LED	Show	Function			
	Green light off	Module not connected			
SF/MS/RU	Green light flashing 2.5HZ	Module not communicating			
N	Green light flashes 1HZ	Module is not configured			
	Steady green	Running: The device is running			
	Closure	Module works fine			
BF/NS/ER R	Steady red light	Communication error			
	Green	Input voltage is normal			
03	Flashing red	Low input voltage (< 18 V)			
	Green	The output voltage is normal			
UA	Flashing red	Low output voltage (< 18 V)			
	Red always on	No output voltage present (< 11 V)			



I/O port status

LED	State	Function
1	Closure	The status of Pin4 input or output is 0
1	Yellow	The status of Pin4 input or output is 1
1	Red	Port configured as input: short between Pin1 and 3
1	Flashing red	Port configured as output: Pin4 overcurrent
2	Closure	Port configured as output: short circuit between Pin1 and 3
2	Yellow	The status of Pin2 input or output is 0
2	Rred	The state of Pin2 input or output is 1
2	Flashing red	Port configured as input: short between Pin1 and 3



Network port status

LED		State	Function
ACT		Closure	Bus rate: 10Mbit/s
		Yellow	Bus rate: 100Mbit/s
LK1 IN	(ECT IN)	Flashing green	Data transmission
LK2 IN	(ECT OUT)	Flashing green	Data transmission



- 5 Integrated
- 5.1 Module configuration

5.1.1 Factory reset and communication protocol switching





5.2 Data mapping

EIP PN ECT Communication protocolprocess output data										
By	Function		位 (Bit)							
tes	Function	7	6	5	4	3	2	1	0	
0	PIN4 output	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
1	PIN2 output	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
Da	ta descripti	on (bin	ary): 0:	=off 1=o	n					
EI	P PN ECT	Comm	iunicati	on proto	ocolp	rocess	input da	ata		
B					位 (E	Bit)				
ytes	Function	7	6	5	4	3	2	1	0	
0	PIN4 input	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
1	PIN2 input	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
2	PIN4 short circuit status	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
3	PIN2 short circuit status	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
4	Port power short circuit	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
5	Module status				Us over volt age	Ua over volt age	overhe at	Us underv oltage	Ua underv oltage	
Da	ta descript	ion (bir	nary): C)=no sig	nal 1=s	signal				
EI	P Commur	nicatior	n Proto	colP	ort Cor	nfigurat	ion			
υ					位(E	Bit)				
ytes	Function	7	6	5	4	3	2	1	0	
0	PIN4 model	Por	t3	Por	t2	Po	rt1	Po	rt0	
1	PIN4 model	Por	ort7 Port6		t6	Port5		Port4		
2	PIN2 model	Por	Port3 Po		t2	Po	rt1	Po	rt0	
3	PIN2 model	Por	t7	Por	t6	Po	rt5	Po	rt4	
Da = o	Data description (binary): 00 = normally open input 01 = normally closed input 10 = output 11 = input and output adaptive									

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EI	EIP communication protocolport configuration									
4	PIN4 Security Mode	Port3		Po	Port2		Port1		Port0	
5	PIN4 Security Mode	Р	ort7	Po	ort6 Pc		ort5	Port4		
6	PIN2 Security Mode	Р	ort3	Po	ort2	Po	ort1	P	ort0	
7	PIN2 Security Mode	Р	ort7	Po	ort6	Po	ort5	P	ort4	
(Or at I	n network outage ast value	e) Safe	Mode C	onfigura	tion: 00 =	Hold at	0 01 = Ho	old at 1 1	0 = Hold	
CI	E communica	ation p	rotocc	olproc	cess out	tput da	ita			
Byt	Function				位	(Bit)				
les	Tunction	7	6	5	4	3	2	1	0	
0	PIN4 output	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
1	PIN2 output	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
Da	ta descriptio	n (bir	nary):	0 = off	1 =on					
CI	E communica	ation p	rotocc	olproc	cess inp	ut data	a			
By	Function				位	(Bit)				
tes	Function	7	6	5	4	3	2	1	0	
0	PIN4 input	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
1	PIN2 input	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
2	PIN4 short circuit status	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
3	PIN2 short circuit status	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
4	Port power short circuit	Port7	Port6	Port5	Port4	Port3	Port2	Port1	Port0	
5	Module status				Us over pres sure	Ua ov er pr es su re	overhe at	Us under voltag e	Ua underv oltage	
Da *W	ta description Then the CIE E	on (bi CT cor	inary) mmunio	: 0=no cation p	signal rotocol i	1=sig s used,	nal the PIN	input a	nd	
out	output mode does not need to be configured for self-adaptation									



5.3 PLC Integration Tutorial

(Before configuring the module, you should set the module communication protocol, see 5.1.1 for details)

- 5.3.1 Siemens S7-1200 Portal Integration (PN)
 - $1 \, {\scriptstyle \sim}\,$ Install the GSD file

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2. In PLC---Device Configuration---Network View---Hardware Catalog, select the module and drag it in, click "Unassigned", and select the PLC to be connected;

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3、Double-click the module to enter the configuration,

(1) Slot function configuration: in the hardware catalog -- module select the required data and drag it into the slot in the device overview window;

(2) Module port function configuration: Click the module icon, select "General", and then click slot 1 to configure the port function

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(3) Module function configuration: Click the module icon, select "General", and then click slot 0 to configure the module function



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(4) After the configuration is complete, in the configuration view, click Download.

4. Assign module PN name: PLC switch to online state, select "ungrouped device"---click on the module name---select online and diagnosis---function---assign PROFINET device name--- -Select the module to be assigned in the list (should be selected according to the physical MAC) --- Click "Assign Name" to complete the configuration! .

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5.3.2 2 OMRON NX1P2 Sysmac Studio Integrated (EIP)

1. Install the EDS file: Tools---ETHERNET/IP Connection Settings---Double-click PLC in the window---right-click on the blank space of the toolbox on the right and select "Show EDS Library", click "Install" in the pop-up window, and select EDS file installation

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2、Create a module: Click "+" in the toolbox window, fill in the module IP address, model name, version, and click "Add" below to complete the module creation;



3. Configuration module: Right-click the module--select "Edit"--configure the corresponding values in the parameters according to actual needs, and click OK after completion.



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	0007 Reserved B 0010 Device Statur II 0020 Find Facetor 0

4. Create a variable association:

(1) Programming--Data--Global variables create two arrays, output 2 bytes, input 6 bytes, and the corresponding input and output should be configured in the network disclosure;



(2) In the built-in ETHERNET/IP port setting window--select the first icon (tab) on the left --click "Register All"

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(3) In the built-in ETHERNET/IP port setting window - select the second icon on the left (connection) - click "+", the target device selects the previously configured module, the IO type selects EXCLUSIVE Owner, selects the corresponding input and output, the target The variable must be filled with 101,100; then select the corresponding starting variable, and go online after completion. Select "Transfer to Controller" and the configuration is complete!



5.3.3 OMRON NX1P2 Sysmac Studio Integrated (ECT)

1. Install the ESI file: double-click EtherCAT in the configuration and settings--rightclick the master device--select "Show ESI library", and select the ESI file in the pop-up window to install

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2. Configure the module to the EtherCAT network: find the FieldBus Modules in the toolbox on the right, find the module model icon and double-click to add it to the network

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 $3\,$ $\smallsetminus\,$ The PLC goes to online mode, right-click the master device, and write the node address of the slave device

4 、 Variable mapping: Select the configured node in the I/O mapping, fill in the name of the variable, and the configuration is complete!

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5.3.4 Mitsubishi FX5U Work2 Integrated (CIE)

1. Install the CCSP file: first open GX WORKS 3-Tools-Configuration file management-Login-CSPP file (the project must be closed to import the file)

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2、Click on the left project - parameters - FX5UCPU - module parameters - Ethernet port, basic settings - self node settings. Set the own node IP



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3、Click CC-Link IEF Basic Settings - select whether to use CC-Link IEF Basic - click to use

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4、 Click on CC-Link IEF Basic settings - select network configuration settings - detailed settings;

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 5_{\times} Auto-detection of connected devices - takes 4 stations, IP address is set with DIP switch - reflects the setting and closes

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6、Refresh target selection specified soft element - soft element name M - assigned soft element address - application, the configuration is complete!

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6 Appendix

6.1. Included materials	FNI MPL contains the following components I/O- block
	 4 blind plugs M12
	·Ground bus
	•Thread M4x6
	-20 tags

6.2. Order code

FNI EIP-xxx-105 - M

M= Zinc alloy die casting housing

6.3 Ordering Information

Product order code	Order code
FNI MPL-332- 105-M	007E31