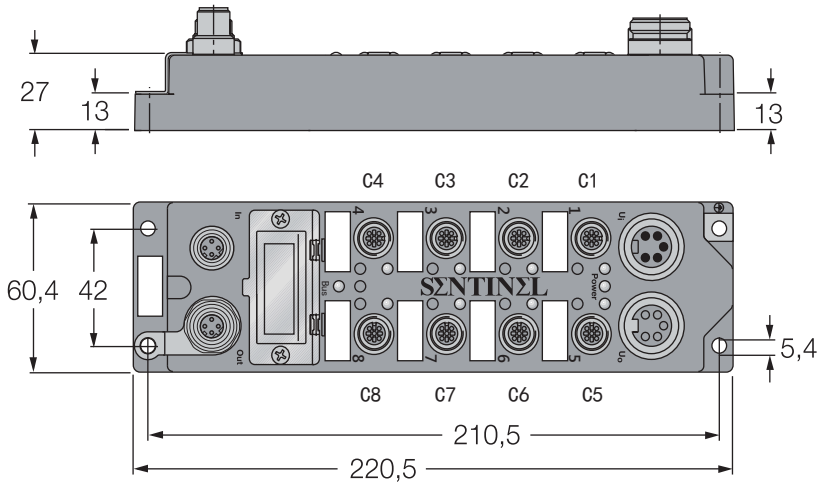
Remote I/O module conforming to the CC-Link IE Field Basic protocol

16 Digital PNP inputs

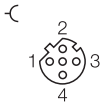
ELBC-IM16-0001



- CC-Link IE Field Basic remote I/O module
- Integrated Ethernet Switch
- Support 100Base-TX
- 2XM12,4-pin,D-code,Ethernet Fieldbus connection
- glass fiber housing
- Impact and vibration resistance
- Fully potted module electronics
- Copper-plated nickel connector
- Protection classes IP67

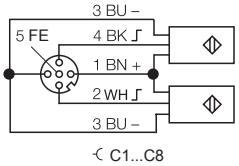
Modle	ELPN-IM16-0003
Supply voltage	24VDC ± 10%
Operating current	< 200mA
Input	
Number of channels	16
Input type	PNP
input standard type	IEC 61131-2 Type 3
Voltage switch threshold	9.2V/10.4V
Current switch threshold	3ms
Switch threshold	2.2mA
electrical Isolation mode	Optocoupler isolation
communication interface	
Number of communication interface	2
transmission mode	100Base-TX
Automatic consultation mechanism	YES
Automatic cross-flip	YES
Maximum transmission rate	100Mbit/s
Number of occupied stations	one station（64bit）
Default IPv4 address	192.168.3.*（* Represents the hexadecimal number corresponding to the dial switch）
The IP address setting function	Support for IPAddressSet， port number:61451 （Only network segments can be changed）
Default subnet mask	255.255.255.0
Communication data format	binary system
Operating temperature	0-55℃

Bus connector M12

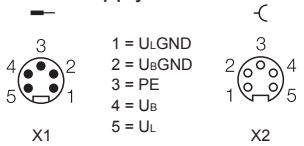


1 = TD+ (YE)
2 = RD+ (WH)
3 = TD - (OG)
4 = RD - (BU)

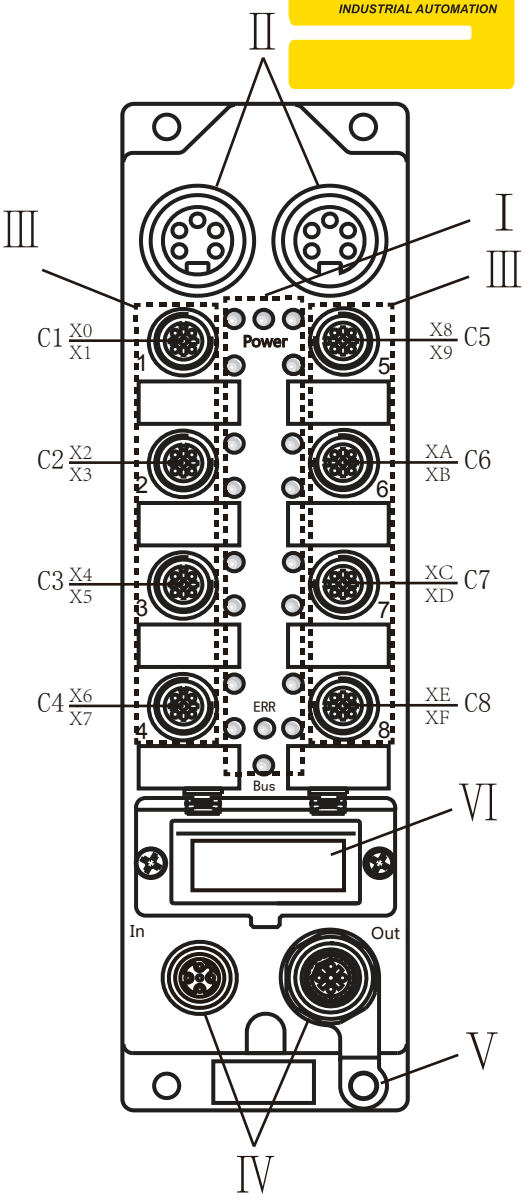
Input signal connector M12

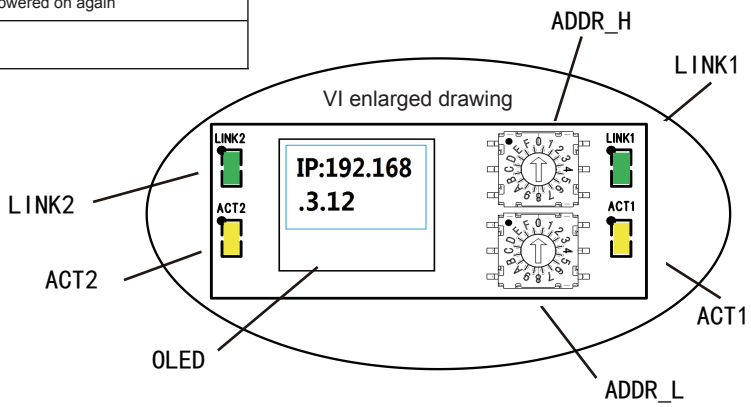


Power Supply Connector 7/8”



		Description	
I	module LEDS	LED name	Detailed introduction
		Power	Green LED lights: ON:The module power supply (Ub) is normal OFF:The module power supply is disconnected
		Bus/ERR	Green LED lights on : Communication is normal, and a data exchange has been established Red LED lights on : Communication was abnormal, and no data exchange was established
		X0 to XF OR Y0 to YF	Yellow LED lights: ON : Input or Output active OFF: Input or Output inactive (X : Input , Y : Output)
II	power suppy	Ui (left) : power suppy input , 7/8", 5-pin , male Uo (right) : power suppy output , 7/8", 5-pin , female	
III	Load connec-tion terminals	M12 A-code 5-pin , female C * indicates the * th port, X* represents the * bit in the input port, Y* indicates the * bit in the output port for example: $C1\frac{X0}{X1}$ means the C1 port is input, The fourth hole of the port is input X0, the second hole of the port is input X1. $C8\frac{Y6}{Y7}$ means the C8 port is output, The fourth hole of the port is output Y6, the second hole of the port is output Y7.	
IV	Bus	In (left) : Profinet Bus in , M12 , D-Code , 5-pin , female Out (right) : Profinet Bus out , M12 , D-Code , 5-pin , female	
V	PE	ground connection	
VI	Network status indicator	LINK2	Bus in , Green LED lights: ON : This port communication rate is 100M OFF: This port communication rate is not 100M
		ACT2	Bus in ,Yellow LED lights : ON : Physical connections have been established OFF: No connection Flash: This port has data exchange
		LINK1	Bus out , Green LED lights: ON : This port communication rate is 100M OFF: This port communication rate is not 100M
		ACT1	Bus in ,Yellow LED lights : ON : Physical connections have been established OFF: No connection Flash: This port has data exchange
	IP address setting	Default IP address is 192.168.3.* , * Represents the hexadecimal number corresponding to the dial switch ADDR_H is the upper digit of the hexadecimal number of the address ADDR_L is the lower digit of the hexadecimal number of the address For example: ADDR_H is "A", ADDR_L is" 9", so ADDR is " 0xA9 " , IP address is: 192.168.3.169; ADDR_H is "2", ADDR_L is" 8", so ADDR is " 0x28 " , IP address is: 192.168.3.40; Remarks: After the address is changed, it will not take effect until it is powered on again	
	display screen	OLED display, showing the IP address of the module	





The C * P * represents the *th pin of the C * port; for example: The C2P2 represents pin 2 of the C2 port;
X * represents the * th input point in the 16-bit data; for example: The X8 represents the eighth input point.

Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Input	XF C8P2	XE C8P4	XD C7P2	XC C7P4	XB C6P2	XA C6P4	X9 C5P2	X8 C5P4	X7 C4P2	X6 C4P4	X5 C3P2	X4 C3P4	X3 C2P2	X2 C2P4	X1 C1P2	X0 C1P4