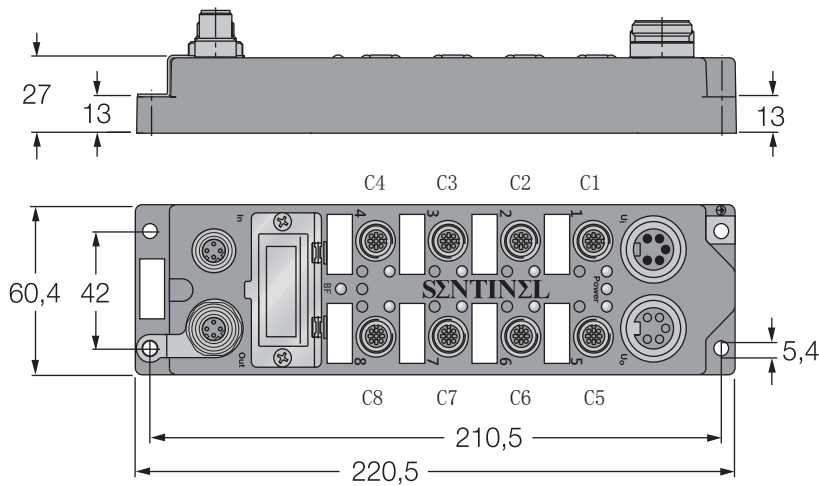


Remote I/O module conforming to the **PROFI<sup>®</sup> NET** protocol

8 Digital PNP inputs

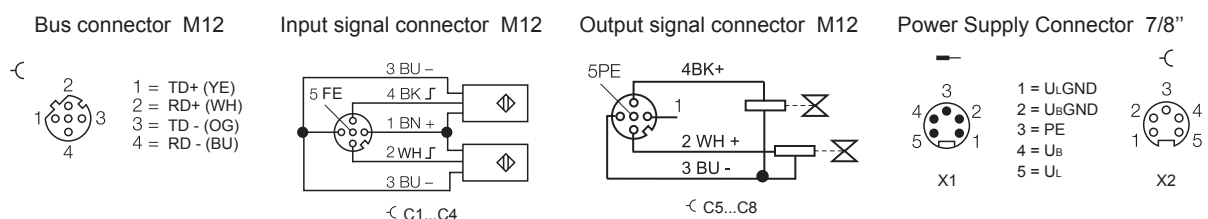
8 Digital outputs, 0.5A per output

ELPN-IOM88-0003

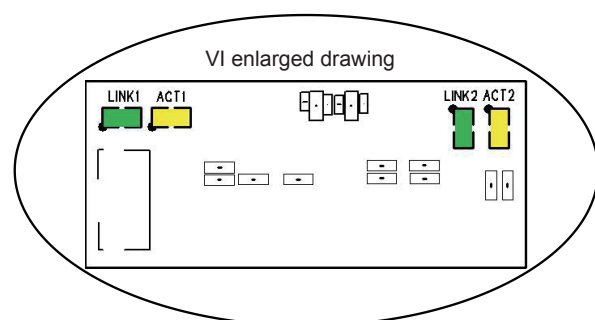
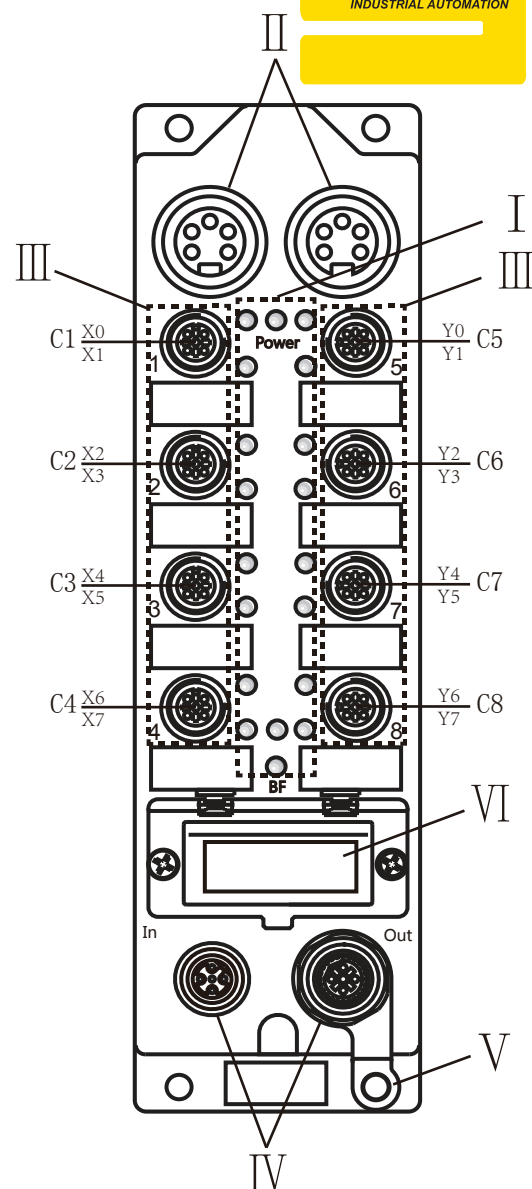


- Profinet remote I/O module
- Integrated Ethernet Switch
- Support 100Base-TX
- 2XM12,4-pin,D-code,Ethernet Fieldbus connection
- glass fiber housing
- Impact and vibration resistance
- Fully potted module electronics
- Copper-plated nickel connector
- Protection classes IP67

|                                   |   |
|-----------------------------------|---|
| Module                            | ELPN-IOM88-0003                             |
| Supply voltage                    | 24VDC $\pm$ 10%                             |
| Operating current                 | < 200mA                                     |
| Current for powering the load     | >8A   |
| Output                            |   |
| Number of channels                | 8   |
| Output type                       | The common terminal is 0V                   |
| Output current                    | 0.5A  |
| Output protection                 | Overload protection, overheating protection |
| Output protection reaction time   | approximately 20ms                          |
| switching frequency               | 100HZ                                       |
| Output voltage drop               | 0.6V  |
| electrical Isolation mode         | Optocoupler isolation                       |
| Input                             |   |
| Number of channels                | 16  |
| Input type                        | PNP   |
| input impedance                   | 3K  |
| Input rated current               | 7mA   |
| Input delay                       | 3ms   |
| Switch threshold                  | 2mA/4mA                                     |
| 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                                   |
| Operating temperature             | 0-55°C                                      |



|     |                           | Description   |   |
|-----|---------------------------|---|---|
| I   | module LEDs               | LED name  | Detailed introduction   |
|     |                           | Power   | Green LED lights:<br>ON: The module power supply (Ub) is normal<br>OFF: The module power supply is disconnected   |
|     |                           | BF  | Red LED lights:<br>ON : BUS no connection.<br>Flashing : The connection is normal, but no communication was established with Profinet I/O Connector.<br>OFF : Communication has been established with Profinet I/O Connector. |
|     |                           | X0 to X15<br>OR<br>Y0 to Y15  | yellow LED lights:<br>ON : Input or Output active<br>OFF: Input or Output inactive<br>(X : Input, Y : Output)   |
| II  | power supply              | Ui ( left ) : power supply input , 7/8", 5-pin , male<br>Uo ( right ) : power supply output , 7/8", 5-pin , female  |   |
| III | Load connection terminals | M12 A-code 5-pin , female<br>C * indicates the * th port, X* represents the * bit in the input port , Y* indicates the * bit in the output port<br>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.<br>$C8 \frac{Y6}{Y7}$ 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<br>Out ( right ) : Profinet Bus out , M12 , D-Code , 5-pin , female   |   |
| V   | PE                        | ground connection   |   |
| VI  | Network status indicator  | LINK1   | Bus in , Green LED lights:<br>ON : This port establishes a physical connection.<br>OFF: No connection is established on this port   |
|     |                           | ACT1  | Bus in , Yellow LED lights:<br>ON : This port has data exchange;<br>OFF: There is no data exchange for this port  |
|     |                           | LINK2   | Bus out , Green LED lights:<br>ON : This port establishes a physical connection.<br>OFF: No connection is established on this port  |
|     |                           | ACT2  | Bus out , Yellow LED lights:<br>ON : This port has data exchange;<br>OFF: There is no data exchange for this port   |



The C \* P \* represents the \*th pin of the C \* port; for example: The C2P2 represents pin 2 of the C2 port;  
Y \* represents the \*th output point in the 8-bit data; for example: The Y5 represents the fifth output point.  
X \* represents the \*th input point in the 8-bit data; for example: The X2 represents the second input point.

|         | BYTE | Bit7       | Bit6       | Bit5       | Bit4       | Bit3       | Bit2       | Bit1       | Bit0       |
|---------|------|------------|------------|------------|------------|------------|------------|------------|------------|
| Inputs  | 0    | X7<br>C4P2 | X6<br>C4P4 | X5<br>C3P2 | X4<br>C3P4 | X3<br>C2P2 | X2<br>C2P4 | X1<br>C1P2 | X0<br>C1P4 |
| Outputs | 0    | Y7<br>C8P2 | Y6<br>C8P4 | Y5<br>C7P2 | Y4<br>C7P4 | Y3<br>C6P2 | Y2<br>C6P4 | Y1<br>C5P2 | Y0<br>C5P4 |