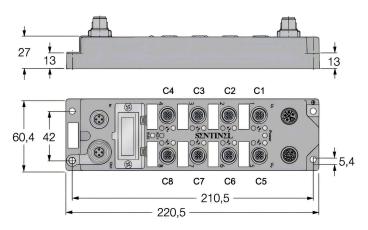
IO-Link modules for EtherNet/IP

8 IO-Link Master Channels ELIP-8IOL-L04B

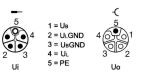




- Ethernet/IP IO-Link Master
- Integrated Ethernet Switch
- Support 100Base-TX
- 2 x M12, 4-pin, D-code, Ethernet Fieldbus connection
- 8 IO-Link Master Channels
- IO_Link V1.1
- IO-Link Master Port 4 class A+4 class B
- IO-Link master port M12 A code
- Metal connector with high-strength plastic housing
- Impact and vibration resistance
- Fully potted module electronics
- Protection class IP67

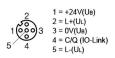
Model	ELIP-8IOL-L04B
Supply voltage	24VDC ± 10%
Operating current	< 200mA
Module power (U _B)	< 8A
Load power (U∟)	< 8A
IO-Link port parameters	
Number of ports	8 (C1C8)
Connectivity inputs	M12, A-coded, Female
Common IO pins	Not supported. The second hole needs to be left
	empty.
Port supply current	Rated 1A, max 2A: UB from pins 1,3;
	Among: C1C4, C5C8 ≤ 4A each.
	Max 2A: UL from pins 2,5
	Among: C1,C2, C5,C6 ≤ 4A each.
IO-Link parameters	
SIO model	Not Supported, The 4th hole cannot be used as a
	normal I/O.
IO-Link Pin definition	Pin 4 in IOL mode
IO-Link Port type	Class A (C3 C4 C7 C8)+Class B (C1 C2 C5 C6)
IO-Link specification	V1.1
Frame type	Supports all specified frame types
Support Device	Maximum 32Bytes Input / 32Bytes Output
Transmission rate	4.8kbps(COM1) / 38.4kbps(COM2) /
	230.4kbps(COM3)
Ethernet/IP	
Number of communication interface	2
Transmission standard	100Base-TX
Auto-negotiation	Supported
Auto-MDI/MDIX	Supported
Maximum transmission rate	100Mbit/s
Connector	M12, D-coded, Female
Default IP address segment	192.168.0.*
IP address setting function	support DHCP
Default subnet mask	255.255.255.0
Communication data format	Binary
Operating temperature	–20–55℃

Power Supply Connector L-coded

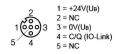


Note:Us is the module power supply, and UL is the load power supply:

IO-Link Port Connector M12



€ C1 C2 C5 C6

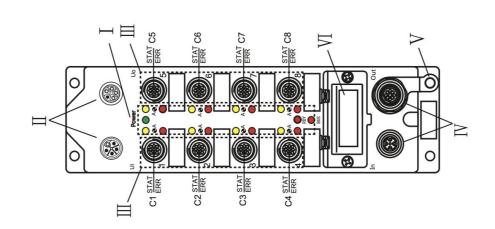


-C C3 C4 C7 C8

Bus Connector M12

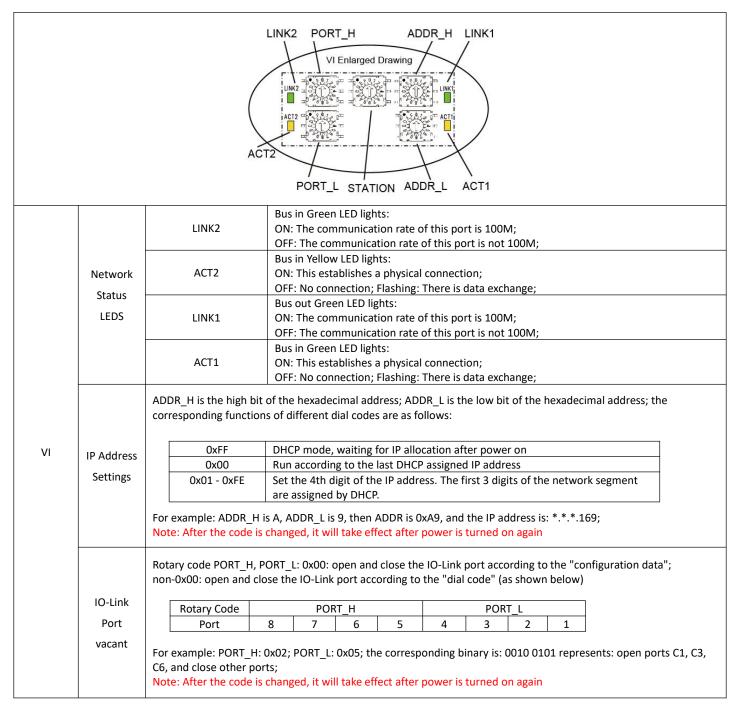






Area Code	Project	Description							
	Module LEDS	LED name	Detail						
		Power	Green LED lights: ON: The module power supply (U _b) OFF: The module power supply is disconnected						
		BUS	Green LED lights: ON: Ethernet/IP Communication is normal Red LED lights: ON: Ethernet/IP Communication interruption; Flashing: In DHCP mode, waiting for IP assignment						
I		RDY	Red LED lights: ON: IO-Link There is an error in the port, which is inconsistent with the configuration;						
		STAT	Yellow LED lights: The IO-Link communication status of the port (C1-C8) ON: The IO-Link communication is normal; OFF: The IO-Link communication is not established;						
		ERR	Red LED lights: Working state of the port ON: The port is working abnormally; please check the IO-Link cable or the IO-Link port settings in the dial code OFF: There is no abnormality in this port; IO-Link is communicating normally or this port is closed or disabled during the dial switch.						
II	Power	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	nput, L-coded, 5-pin, male output, L-coded, 5-pin, female						
	Supply								
111	IO-Link PORT	 M12 A-coded, 5-pin, female; Pin 4 is IO-Link, Dose not support SIO, i.e., Standard I/O mode; Pin 2 is empty, no external signals can be connected; In the figure, which port does C* represent; The STAT represents the communication status indicator lamp; The ERR represents the working status indicator lamp; For example: C1 STAT/ERR represents that the port is PORT1, The LED above the right of the port is STAT and the LED below is ERR; For detailed information on the indicator lights, please refer to Area Code I; Totally is 8 IO-Link port class A, every port is independent lamp for START&ERR. External power supply is required for class B device; Note: Please close the port in the profinet configuration when not used, try not let the module have a red light; 							
IV	BUS	In (left): Ethernet/IP Bus in, M12 D-Code, 5-pin, female Out (right): Ethernet/IP Bus out, M12 D-Code, 5-pin, female							
V	PE	Ground							





IO-Link Port Byte Mapping

Data	Instance ID	Data length(Byte)
Configuration Data	151	4
Input Data	100	266
Output Data	150	256



1.IO-Link Configuration Data (Occupy 4 Byte)									
Byte	Description								
	8 bits represent the configuration of 8 ports IO-Link status: 0 off, 1 on								
Byte0	Bit 7 6 5 4 3 2 1 0								
	Port C8 C7 C6 C5 C4 C3 C2 C1								
Byte1	reserve								
Byte2	reserve								
Byte3	reserve								

2.IO-Link Process Da	ta Input (Occupy 266 Byte	e)									
Byte	Description										
	8 bits represent the current IO-Link status of 8 ports: 1 is normal communication, 0 is no communication					o communication					
Byte0		Bit	7	6	5	4	3	2	1	0	
		Port	C8	C7	C6	C5	C4	C3	C2	C1	
	8 bits represent IO-Link disconnection records of 8 ports: 1 means disconnection, 0 means no disconnection										
Byte1		Bit	7	6	5	4	3	2	1	0	
		Port	C8	C7	C6	C5	C4	С3	C2	C1	
Byte2	C1 Port disconnection times										
Byte3	C2 Port disconnection times										
Byte4	C3 Port disconnection times										
Byte5	C4 Port disconnection times										
Byte6	C5 Port disconnection times										
Byte7	C6 Port disconnection times										
Byte8	C7 Port disconnection times										
Byte9	C8 Port disconnection times										
Byte10-Byte41	C1 Port process input data (32Byte)										
Byte42-Byte73	C2 Port process input data (32Byte)										
Byte74-Byte105	C3 Port process input data (32Byte)										
Byte106-Byte137	C4 Port process input data (32Byte)										
Byte138-Byte169	C5 Port process input data (32Byte)										
Byte170-Byte201	C6 Port process input data (32Byte)										
Byte202-Byte233	C7 Port process input data (32Byte)										
Byte234-Byte265	C8 Port process input data (32Byte)										



3.IO-Link Process Data Output (Occupy 256 Byte)				
Byte	Description			
Byte0-Byte31	C1 Port process output data (32Byte)			
Byte32-Byte63	C2 Port process output data (32Byte)			
Byte64-Byte95	C3 Port process output data (32Byte)			
Byte96-Byte127	C4 Port process output data (32Byte)			
Byte128-Byte159	C5 Port process output data (32Byte)			
Byte160-Byte191	C6 Port process output data (32Byte)			
Byte192-Byte223	C7 Port process output data (32Byte)			
Byte224-Byte255	C8 Port process output data (32Byte)			