



IO-Link Master 4-EIP

Part Number: 99570-8



KEY FEATURES AND BENEFITS

- Four channel IO-Link Master to Industrial EtherNet/IP™
- EtherNet/IP™ and Modbus TCP access to IO-Link process, event and service data
- EtherNet/IP™ Class 1 (Implicit) and Class 3 (Explicit) interfaces
- Write-to-Tag/File, Read-from-Tag/File
- PLC access to IO-Link ISDU blocks without complex programming
- Rugged IP67 housing designed for harsh environments, M12 connectors allowing up to four sensor connections on one master block
- Powerful web GUI for configuration and diagnostics, including:
 - IO-Link device management using the IO-Link device manufacturers IODD file for easy device configuration
 - Automatic data storage (upload and download)
 - Manual data storage (upload and download)
 - Device validation
 - Data validation
- Wide operating temperature (0° to +55°C)
- Multi-side LED visibility for device, network and port status
- Additional digital input on every port
- Works with PortVision DX
- IO-Link V1.1 compatibility
- IO-Link COM1, COM2 and COM3 support (230K baud rate)
- Slim-line machine-mount installation
- MultiLink – Simultaneously provides IO-Link device access to multiple controllers

IO-LINK MASTER



PRODUCT DESCRIPTION

Control's IO-Link Master combines the benefits of the IO-Link standard with the popular industrial EtherNet/IP protocol by providing a gateway that's a streamlined bridge between the field level sensor network and the industrial EtherNet/IP backbone, making retrofitting or expansion simple.

The IO-Link Master features a rugged IP67 slim-line design incorporating two Fast Ethernet ports and four IO-Link ports with Class A M12 connectors. This product is for industrial applications with its machine-mount design using industrial grade components. The IO-Link Master is easily integrated into factory automation networks and is compatible with both IO-Link and digital IO sensor technologies.

IO-LINK MASTER SPECIFICATIONS

HARDWARE

Network Interfaces	10/100BASE-TX
Enclosure	Molded ABS (potted)
Installation and Grounding Method	Machine or panel mount - two-hole M4 or #8 screws
Network Protocols	EtherNet/IP, Modbus/TCP (slave)
Connectors	4 - IO-Link 2 - Ethernet 2 - Power
LED Indicators	Power, Module Status, Network Status, IO-Link, DI and Ethernet
Port Status	
Dimensions	6.07" x 2.04" x 1.68" 154 x 51.8 x 42.7 mm

ETHERNET INTERFACE SPECIFICATIONS

Connector Type	Female, M12 D-coded, 4-pin
Number of Ports	2
Ethernet Specification	10/100BASE-TX
Standards	IEEE802.3: 10BASE-T IEEE 802.3u: 100BASE-TX
Auto-MD/MDI-X	Yes
Auto-Negotiation	Yes
Link Distance	100 m
Cable Types	

Unshielded twisted pair	
IPv4 Addressing	Yes

IO-LINK INTERFACE SPECIFICATIONS

Connector Type	Female, M12 D-coded, 4-pin
Number of Ports	4
Transfer Rates	4.8K (COM1) 38.4K (COM2) 230.4K (COM3)
Baud Rate Recognition	Automatic
Cable Length (Max.)	20m

DIGITAL INPUTS

Connector Type	Female, M12 A-coded, 5-pin
Number of Ports	4
Input Characteristics	Type 2
Cable Length (Max.)	30 m

DIGITAL OUTPUTS

Connector Type	Female, M12 A-coded, 5-pin
Number of Ports	4
Actuator (Sensor) Current Load (Max.)	200mA
Lamp Load (Max.)	4W
Over Load and Short Circuit Protection	Yes
Switching Output	PNP, NPN

ELECTRICAL SPECIFICATIONS

Device		
DC Input Voltage Range	18-30VDC	
Current Consumption (Max.)	2A @ 24VDC	100mA
Current Consumption (w/out devices)		
Power Consumption	2.4W	
Sensor Supply Connectors 1 to 4 (Max.)	200mA/connector	
Short Circuit Protection for IO-Link Connectors	300mA	
Power Connectors		
Input (1)	Male M12 A-coded 5-pin	
Output (1)	Female M12 A-coded 5-pin	

ENVIRONMENTAL SPECIFICATIONS

Air Temperature	
System On	0°C to +55°C*
System Off	-40°C to +70°C
Operating Humidity (non-condensing)	10% to 95%
Storage Humidity (non-condensing)	10% to 95%
Shock/Vibrations	EN60068-2-6 EN60068-2-27
Enclosure Rating	IP67 (IEC 60529)

WHAT IS IO-LINK?

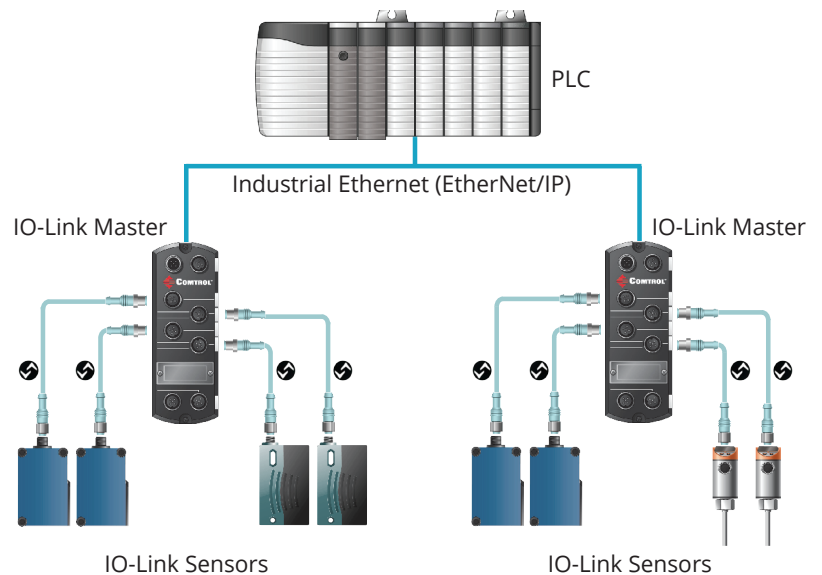
IO-Link is a point-to-point serial communication protocol used to communicate with sensors and/or actuators. This increasingly deployed protocol extends the globally recognized PLC standard IEC 61131, which allows three types of data to be exchanged: process data, service data and events.

Major sensor manufacturers and industrial manufacturing companies, including Comtrol, have joined the international IO-Link Consortium to promote the IO-Link communication protocol due to its many advantages over standard I/O.

WHY IO-LINK?

IO-Link is a powerful, yet simple, protocol with wide support in the industry. There are many reasons to use IO-Link. In almost any place that a digital or analog sensor is used, an IO-Link sensor can provide the end user significantly more information, configurability and control. From installation to operation and even maintenance of an automation system, IO-Link provides clear advantages over legacy solutions.

IO-Link Master common configuration networking diagram



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Warranty Information

Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

Sales Support

+1.763.957.6000
sales@comtrol.com

Technical Support

+1.763.957.6000
www.comtrol.com/support

Email, FTP, and Web Support

info@comtrol.com
ftp.comtrol.com
www.comtrol.com