

EtherNet/IP Industrial I/O Modules >

EtherNet/IP Industrial I/O Modules are robust and durable IP67-rated input/output (I/O) modules designed for connecting industrial controllers and devices in harsh-duty environments to enable fast and versatile automation of industrial networks that use the EtherNet/IP protocol.



ADVANTAGES AND FEATURES

Is resistant to vibration and dust

Resin potting seals cables against environmental ingress for on-machine mounting.

Provides flexibility to configure module for multiple applications

Users can choose between fixed and configurable digital I/O channels, with various input and output combinations available, to improve versatility and reduce costs.

Reduces installation time with M12 Ultra-Lock push-to-lock connectors

Fast and secure Ultra-Lock connectors enable quick changeovers and are compatible with threaded connectors for greater flexibility.

Accelerates time to market with off-the-shelf options

Delivery is available in six to eight weeks.

Protocol	EtherNet/IP
Ingress Protection	IP67 rated
Mounting	On machine
Form Factor	60.00mm
Connector Types	5-pole M12 Ultra-Lock, 4- or 5-pole Mini-Change
Operating Temperatures	-20 to +70°C

Enables simplified networking for industrial networks

Modules are compliant with the EtherNet/IP protocol. Ethernet ring redundancy (DLR feature) and Quick Connect capability to start and connect the module in less than 500 milliseconds minimize installation time and downtime.

Communicates module and network status quickly through diagnostics LEDs

Maintenance personnel can easily determine I/O, module and network status by using diagnostic capabilities via an embedded web server, fieldbus messaging and diagnostic LED indicators.

MARKETS AND APPLICATIONS

Industrial Automation

- Automotive assembly lines
- CNC machines
- Complex factory automation devices
- Conveyors
- Material handling devices
- Robotic cells
- Warehouse automation systems



Automotive Assembly Lines



Conveyors

EtherNet/IP™

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SPECIFICATIONS

Reference Information

Packing: Carton
 Designed in: Millimeters
 ODVA Certification: Yes
 RoHS: Yes
 CE: Yes
 REACH: Yes
 cULus/CSA: Yes (CSA 22.2)
 EMC: EN 61000-6-2/EN 61000-6-4
 I/O Configurations:
 16 inputs
 8 inputs + 8 outputs
 16 I/O user configurable

Fieldbus

Network Connectors: 2 x M12, 4-pole, female, D-code, Nickel Brass
 Diagnostic LEDs: Yes (per port, link/speed/activity)
 Rotary Switches: 3 (fixed, DHCP, stored)
 Protocol: EtherNet/IP adapter
 I/O and Explicit Communications Support: Yes
 Requested Packet Interval (RPI): 1 millisecond
 Features: DLR client, ACD, Quick Connect (class A)
 Ethernet Packet: Manage up to 9,000 packets per second
 Description File: Yes (EDS)
 EDS File Upload from Module: Uses Rockwell RSLinx

Physical

Dimensions: 220.00 by 60.00 by 37.50mm
 Housing: IP67 rated
 Housing Material: PBT VALOX 420 SEO
 Operating Temperatures: -20 to +70°C
 Storage Temperatures: -40 to +85°C
 Relative Humidity: 10 to 95%, non-condensing

Input Channels

Input Type: PNP, sinking, IEC 61131-2- Type 3
 Diagnostic LEDs: Yes
 Sensor Power Supply: 140mA (pin 1), short circuit protection and overcurrent protection
 Input Filter: 5 milliseconds
 Connector: M12, 4-pin, female, A-code, Nickel Brass

Power Connectors

Power In: Male Mini-Change, 4 pole or 5 pole
 Power Out: Female Mini-Change, 4 pole or 5 pole
 Protection Against Power Crossing: Yes

Output Channels

Output Type: PNP, sourcing
 Output Current: 2.0A per channel (max. 8.0A at 25°C)
 Diagnostic LEDs: Yes
 Short Circuit and Overcurrent Protection: Yes
 Connector: M12, 4-pin, female, A-code, Nickel Brass
 Switching Frequency: 200 Hz

Shock and Vibration

Vibration: EN 60068-2-6/EN 60068-2-29
 Mechanical Shock: EN 60068-2-6/EN 60068-2-29

Power Requirements

Module Input Power: 24V DC (-15/+20%)
 Module Output Power: 24V DC (-15/+20%), 8.0A max. per module
 Diagnostic LEDs: Yes (logic/input and output) with detection of high- and low-voltage operation

Ethernet Switch

Network Connectors: 2 x M12, 4-pole, female, D-code, Nickel Brass
 Diagnostic LEDs: Yes (per port, link/speed/activity)
 Data Speed: 2 port, 10/100 Mbps (auto-negotiation)