Ethernet to 32 Channel TTL Digital I/O Adapter, with PoE (802.3af)

Part: 160PoE | **Model:** eI/O PIO-32

Control and monitor up to 32 channels of buffered drive digital I/O via any 10/100BaseT Ethernet connection with the eI/O-160PoE digital I/O module.

The module addresses the 32 channels of I/O as four eight-bit ports, each programmable as input or output. Use a standard 50-pin IDC ribbon cable to connect an industry-standard relay rack for PC based control and automation of equipment including sensors, switches, security control systems, and other industrial automation systems. The eI/O-160PoE 50-pin (TTL) digital interface is pin-compatible with the Sealevel SeaDAC Lite 8126 and accepts the same accessories.

The eI/O-160PoE is a Class 0 (IEEE 802.3af-2003) Power over Ethernet device. This allows power and data to be transferred over a single CAT5 cable and eliminates the need for an external power supply. With PoE, power can be supplied by power sourcing equipment including PoE injectors (midspans) and switches (endspans).

Ready for DIN rail mounting, the eI/O-160PoE includes a removable plastic clip that snaps onto 35mm DIN rail. The clip can also be attached to any flat surface such as a wall or under a counter. Standard operating temperature range of eI/O Ethernet digital I/O modules is 0°C to 70°C. Status LEDs on the front show power and I/O activity. Additionally, LEDs on the RJ45 connector display Ethernet link and communication activity.

Communicate with eI/O Ethernet digital I/O modules using industry-standard Modbus TCP protocol or use the Sealevel SeaMAX API software libraries from your application program. Sealevel's SeaMAX software drivers and utilities make installation and operation easy using Microsoft Windows operating systems.

The Sealevel Modbus Connect app for iOS allows you to access the registers, coils and discrete I/O of your Sealevel Modbus devices and is available on the App Store. Use the app to remotely access I/O in the field or for testing and troubleshooting during application development. The Sealevel Mod+ Connect app is an easy-to-use diagnostic utility that allows you to monitor, test and troubleshoot Sealevel eI/O and SeaI/O modules using your iPhone or iPod touch.

Features & Specifications
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Features

- 10/100BaseT Ethernet Modbus TCP interface
- 32 channels of buffered drive TTL I/O
- Each 8-bit port individually configurable as input or output
- 10K pull-up resistors on each port bit
- Industry standard 50-pin solid-state relay rack connector
- +5VDC power and ground provided on 50-pin header connector
- Ready for DIN rail mounting, removable plastic clip snaps onto 35mm DIN rail or can be attached to walls and other surfaces with optional screws
- PoE version allows power and data over a single CAT5 cable, eliminating the need for an external power supply
- Status LEDs display power, Ethernet link and I/O activity
- Sealevel SeaMAX software supports Microsoft Windows operating systems
- Housed in rugged, attractive plastic enclosure
- Includes 7' CAT5 Ethernet cable (Item# CA246)

Specifications

Family	eI/O
Digital I/O	TTL I/O
Dimensions	4.5 (L) x 3.5 (W) x 1.3 (H)
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	Ethernet
Operating Temperature	0°C to 70°C (32°F to 158°F)
Output Power	+5VDC @ 350mA max.
Output Specification	Sink up to 64mA, Source up to 32mA
PoE Powered	Yes
# of Ports	32
Power Requirement	802.3af PoE Class 0 @ 2.2W (Typical)
RoHS Compliant	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)