

# CEN-IO-IR-104

## Wired Ethernet Module with 4 IR Ports

- > Compact, cost-effective wired Ethernet I/O module
- > Provides four IR/1-way Serial ports
- > Installer setup via Crestron Toolbox™ software or web browser
- > Supports TLS 1.2, Local Authentication, and SSL security protocols
- > PoE (Power over Ethernet) network powered
- > Compact, stackable “IFE micro” form factor
- > Surface or DIN rail mountable
- > Available rack mount and pole mount options <sup>[1]</sup>



The Crestron® CEN-IO-IR-104 is a compact and cost-effective wired I/O module designed to easily expand the available IR/Serial ports within a commercial or residential system. A small form factor allows the CEN-IO-IR-104 to be placed just about anywhere, with the option to attach it to a flat surface or DIN rail using the included mounting bracket. The four onboard IR/1-way Serial ports enable direct integration with all kinds of third-party equipment.

The CEN-IO-IR-104 communicates to the local network using the available LAN connection, allowing the connected equipment to be remotely controlled and monitored from a computer or tablet. Power is conveniently supplied to the CEN-IO-IR-104 via PoE (Power over Ethernet) or a Crestron control system, eliminating the need for a local power supply or extra wiring.

### Security Protocols

The CEN-IO-IR-104 supports the following security protocols to help protect against service interruptions and malicious intrusions:

- TLS 1.2 for web server and control system connections
- Local Authentication for console, web server, and control system connections
- SSL for console connections

### Power over Ethernet

Using PoE technology, the CEN-IO-IR-104 gets its operating power directly through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE injector ([PWE-4803RU](#)) simply connects in line with the LAN cable at any convenient location. Crestron PoE switches ([CEN-SW-POE-5](#) or [CEN-SWPOE-16](#)) may also be used to provide a total networking solution with built-in PoE. All PoE injectors and switches are sold separately.

### Integrator Friendly Enclosure

The CEN-IO-IR-104 features the Crestron IFE form factor, a compact “Integrator Friendly Enclosure” design that fits almost anywhere and enables a variety of installation options. Its shape allows multiple CEN-IO and other IFE compliant devices to be stacked together. Using the included mounting bracket, it can be fastened to any flat surface or snapped onto a standard DIN rail. Rack mount and pole mount kits are also available.<sup>[1]</sup>

## SPECIFICATIONS

### Communications

**Ethernet:** 100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, SSL, TLS, IEEE 802.3af and 802.3at Type 1 compliant

**IR/Serial:** Supports 1-way device control via infrared up to 1.2 MHz or Serial TTL/RS-232 (0–5 Volts) up to 115.2k baud

### Connectors

**LAN PoE:** (1) 8-pin RJ45 connector, female;  
100Base-TX Ethernet port;

PoE (Power over Ethernet) PD (Powered Device) port

**IR:** (1) 8-pin 3.5 mm detachable terminal block;

Comprises (4) IR/Serial output ports;

IR output up to 1.2 MHz;

1-way Serial TTL/RS-232 (0–5 Volts) up to 115.2k baud

**G:** (1) 4-40 screw;

Chassis ground lug

### Controls & Indicators

**PWR:** (1) Bicolor green/amber LED, indicates that power is present, amber indicates that the device is booting and not yet ready to operate, green indicates that device is ready to operate

**ONLINE:** (1) Green LED, indicates that the device is connected to a Crestron control system via Ethernet

**SETUP:** (1) Red LED and (1) recessed pushbutton for Ethernet setup, LED indicates that the SETUP pushbutton has been pressed (times out automatically) <sup>[2]</sup>

**LAN PoE:** (2) Bicolor LEDs, green LED indicates 100Mbps Ethernet link status, amber LED indicates Ethernet activity

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Front View



Rear View

## Power

**Power over Ethernet:** IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95 W) PoE Powered Device

**Power Consumption:** 2.3 Watts

## Environmental

**Temperature:** 41 to 104 °F (5 to 40 °C)

**Humidity:** 10% to 90% RH (noncondensing)

**Heat Dissipation:** 8 BTU/hr

## Construction

**Enclosure:** IFE micro form factor, black and blue plastic

**Mounting:** Freestanding, stackable, surface mount, or 35 mm DIN EN 60715 rail mount; occupies 8 DIN module spaces (144 mm); surface/DIN rail mounting bracket included, optional rack mount and pole mount kits sold separately

## Dimensions

**Height:** 1.35 in. (34 mm), 1.77 in. (45 mm) with bracket

**Width:** 5.04 in. (128 mm), 5.36 in. (136 mm) with bracket

**Depth:** 2.86 in. (73 mm), 3.33 in. (85 mm) with bracket

## Weight

6.4 oz (180 g)

## Compliance

UL Listed for US & Canada, CE, IC, FCC Part 15 Class B digital device

## Notes:

1. Item(s) sold separately.
2. A different IP address may be set for the module using Crestron Toolbox™ software.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, visit <https://www.crestron.com/opensource>.

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## MODELS & ACCESSORIES

### Available Models

**CEN-IO-IR-104:** Wired Ethernet Module with 4 IR Ports

### Available Accessories

**PWE-4803RU:** PoE Injector

**CEN-SW-POE-5:** 5-Port PoE Switch

**CEN-SWPOE-16:** 16-Port Managed PoE Switch

**RMK-IFE-1U:** IFE Rack Mount Kit

**PLMK-IFE-101:** IFE Pole Mount Kit

**CNSP-XX:** Custom Serial Interface Cable

**IRP2:** IR Emitter

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