

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 ^[1]



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.^[1]

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) ^[2]

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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