

# CEN-IO-RY-204

## Wi-Fi® Network I/O Extender with 4 Relay Ports



- Compact, cost-effective wireless network I/O extender
- Communicates to the local network over Wi-Fi® wireless communications
- Up to five wireless access points can be memorized
- Provides four relay ports
- Installer setup via Crestron Toolbox™ software or web browser
- Supports TLS 1.2 and Local Authentication security protocols
- Powered via included 5 VDC power pack
- Compact, stackable IFE micro form factor
- Surface or DIN rail mountable
- Available rack mount and pole mount options

The Crestron® CEN-IO-RY-204 is a compact and cost-effective wireless I/O extender designed to easily expand the available relay ports within a commercial or residential system. A small form factor allows the CEN-IO-RY-204 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 relay ports enable direct integration with all kinds of third-party equipment.

The CEN-IO-RY-204 communicates to the local network over Wi-Fi® wireless communications, allowing the connected equipment to be remotely controlled and monitored from a computer or tablet. Power is conveniently supplied to the CEN-IO-RY-204 via an included 5 VDC power pack.

### Security Protocols

The CEN-IO-RY-204 supports the following security protocols to help protect against service interruptions and malicious intrusions:

- TLS 1.2 for control system connections
- Local Authentication for console and control system connections

### Advanced Wi-Fi Wireless Performance

Crestron enhanced Wi-Fi performance is optimized to deliver fast, dependable wireless communications with a 50 ft (15 m) omnidirectional range (conditions permitting). The choice of 802.11 a, b, g, and n protocols affords reliable, high-speed wireless connectivity in most RF environments. Up to five wireless access points can be memorized for easy connectivity within larger networks.

### Integrator Friendly Enclosure

The CEN-IO-RY-204 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 a flat surface or snapped onto a standard DIN rail. Rack mount and pole mount kits are also available.<sup>1</sup>

# CEN-IO-RY-204

## Wi-Fi® Network I/O Extender with 4 Relay Ports

### Specifications

#### Wireless Communication

<b>Transceiver</b>	IEEE 802.11a/b/g/n Wi-Fi (2.4 or 5 GHz 2-way RF), static IP or dynamic IP via DHCP
<b>Security</b>	64 and 128-bit WEP, WPA and WPA2-PSK with TKIP and AES
<b>Range</b>	Up to 50 ft (15 m), subject to site-specific conditions
<b>Gateway</b>	Requires an 802.11a/b/g/n wireless access point and Ethernet-enabled Crestron control system

#### Connectors

<b>RELAY</b>	(1) 8-pin 3.5 mm detachable terminal block; Comprises (4) normally open, isolated relays; Rated 1 A, 30 VAC/VDC; MOV arc suppression across contacts
<b>USB</b>	(1) Micro-USB Type B console port; For setup via Crestron Toolbox™ software
<b>PWR</b>	(1) 2-pin 3.5 mm detachable terminal block; 5 VDC power input for included power pack
<b>G</b>	(1) 4-40 screw; Chassis ground lug

#### Controls and Indicators

<b>PWR</b>	(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
<b>ONLINE</b>	(1) Green LED, indicates that the device is connected to a Crestron control system via Wi-Fi wireless communications
<b>SETUP</b>	(1) Red LED and (1) recessed push button for web setup, LED indicates that the SETUP push button has been pressed (times out automatically) <sup>2</sup>

#### Power

<b>Power Pack (included)</b>	Input: 100–240 VAC, 50/60 Hz; Output: 1.2 A @ 5 VDC; Model: PW-0510WUL
<b>Power Consumption</b>	0.7 W typical

#### Environmental

<b>Temperature</b>	41 to 104 °F (5 to 40 °C)
<b>Humidity</b>	10% to 90% RH (noncondensing)
<b>Heat Dissipation</b>	2.3 BTU/hr typical

#### Construction

<b>Enclosure</b>	IFE micro form factor, black and blue plastic
<b>Mounting</b>	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 kits sold separately <sup>1</sup>

#### Dimensions

<b>Height</b>	1.35 in. (34 mm), 1.77 in. (45 mm) with bracket
<b>Width</b>	5.04 in. (128 mm), 5.36 in. (136 mm) with bracket
<b>Depth</b>	2.86 in. (73 mm), 3.33 in. (85 mm) with bracket

#### Weight

6.4 oz (180 g)

#### Compliance

**Regulatory Model: CEN-IO**  
UL® Listed for US and Canada, CE, IC, FCC Part 15 Class B digital device

#### Models

**CEN-IO-RY-204**  
Wi-Fi® Network I/O Extender with 4 Relay Ports

#### Available Accessories

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

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

## Wi-Fi® Network I/O Extender with 4 Relay Ports

### Notes:

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

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](http://www.crestron.com/How-To-Buy/Find-a-Representative) or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to [www.crestron.com/warranty](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

Crestron, the Crestron logo, and Crestron Toolbox are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. UL is either a trademark or a registered trademark of Underwriters Laboratories, Inc. in the United States and/or other countries. Wi-Fi is either a trademark or a registered trademark of Wi-Fi Alliance in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

Specifications are subject to change without notice.

©2020 Crestron Electronics, Inc.

Rev 02/18/20

# CEN-IO-RY-204

## Wi-Fi® Network I/O Extender with 4 Relay Ports

