

# CEN-HPRFGW

## Extended Range RF Wireless Gateway

- > 2-way "Extended Range" RF wireless transceiver/gateway
- > Supports up to 16 touch screens and remotes
- > Dynamic discovery for fast, easy setup
- > "Wi-Fi friendly" channel selection
- > Built-in RF network diagnostics
- > 100 to 200 feet range indoors, 1000 feet outdoors
- > Supports roaming for extended coverage
- > Antenna extendable using optional ANT-EXT
- > Crestron Toolbox™ software configuration and management
- > Cresnet® or Ethernet control system interface
- > Compatible with TPS-6X and UFO-WPR-3ER

The CEN-HPRFGW gateway is a 2-way RF transceiver that enables wireless communication and management for up to 16 Crestron® "Extended Range" wireless touch screens and remotes. It is compatible with the Isys® TPS-6X Wireless Touch Screen and UFO-WPR-3ER Waterproof Wireless Remote.

### Extended Range 2.4 GHz RF Technology

Crestron Extended Range wireless technology (formerly called "High Powered RF") affords robust bidirectional wireless communications over an impressive distance of approximately 100 to 200 feet indoors and up to 1000 feet outdoors. Roaming capability allows for even greater coverage using up to eight CEN-HPRFGW gateways. "Wi-Fi friendly" RF technology permits selection from 16 ISM channels within the 2.4 GHz spectrum to minimize the possibility of interference with other RF equipment including 802.11 devices.

The CEN-HPRFGW continuously monitors each device on the network, diligently keeping track when any device goes to sleep, shuts down, or wanders out of range, restoring communications seamlessly when the device reappears on the network. The control data to and from each associated device is passed cleanly and quickly through the gateway without any cumbersome processing to affect performance. Excessive network traffic and noise are combated using intelligent data routing to ensure every control signal is delivered intact to its intended destination without interruption.

### Easy Setup

Setting up a network of ER wireless devices is simple, utilizing dynamic discovery to locate and acquire each RF device automatically. Up to 16 ER wireless touch screens and remotes can be linked to a control system via a single CEN-HPRFGW gateway. Additional gateways may be installed to support more devices, with up to 16 gateways possible in a complete system (RF conditions allowing).

Wired communications between the CEN-HPRFGW gateway and the control system can be via Cresnet® or Ethernet, with power for the gateway delivered over Cresnet or via the included power pack.



## SPECIFICATIONS

### Wireless

**RF Transceiver:** 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), IEEE 802.15.4 compliant

**Transmitting Power:** 75 mW (Ch.11), 100 mW (Ch.12-23), 15 mW (Ch.24), 3.5 mW (Ch.25), 1 mW (Ch.26) @ High Setting; 1 mW (Ch.11-25), 0.5 mW (Ch.26) @ Low Setting

**Range (typical):** 100 to 200 feet maximum indoor, 1000 feet outdoor, subject to site-specific conditions

**Roaming:** Supports roaming amongst up to 8 RF gateways

Maximum 16 "ER" wireless devices per gateway or roaming network

### Communications

**Ethernet:** 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP

**Cresnet®:** Supports Cresnet slave mode

### Controls and Indicators

**PWR:** (1) Green LED, indicates DC power supplied from Cresnet network or local power pack

**NET:** (1) Yellow LED, indicates communication with the Cresnet system

**RXD:** (1) Red LED, indicates data is being received from wireless network devices

**TXD:** (1) Red LED, indicates data is being transmitted to wireless network devices

**ACQUIRE:** (1) Recessed pushbutton with red LED, used to configure the wireless network

**SETUP:** (1) Recessed pushbutton with red LED, used for touch-settable ID (TSID) and Ethernet autodiscovery

**LAN:** (2) LEDs, Green indicates Ethernet link status, Yellow indicates Ethernet activity

# CEN-HPRFGW Extended Range RF Wireless Gateway

## Connectors

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**LAN:** (1) 8-wire RJ45, 10Base-T/100Base-TX Ethernet port

**COMPUTER:** (1) 6-pin RJ11 female, computer console port;  
Bidirectional RS-232 up to 115.2k baud;  
Hardware and software handshaking support;  
2 ft (0.6 m) RJ11-to-DB9F adapter cable included;  
For setup only

**NET:** (1) 3.5mm detachable terminal block;  
Cresnet slave port, connects to Cresnet control network

**PWR 12VDC 0.5A:** (1) 2.5mm barrel DC power jack;  
12 Volt DC power input (power pack included)

## Power Requirements

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**Power Pack (US/North America):** 0.5 Amps @ 12 Volts DC;  
120 Volts AC, 60 Hz power pack, model PW-1205 included

**Power Pack (International):** 0.5 Amps @ 12 Volts DC;  
230 Volts AC, 50 Hz power pack, model PWI-1215 included

**Cresnet Power Usage:** 2 Watts (85 mA @ 24 Volts DC) with no power pack connected

## Enclosure

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Metal, matte black finish, freestanding or surface mount (adhesive feet, 3M™ Dual Lock™ reclosable fastener, and mounting plate included)

## Environmental

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

**Humidity:** 10% to 90% RH (non-condensing)

## Dimensions

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(Without antenna)

**Height:** 1.30 in (33 mm);  
1.22 (31 mm) without feet

**Width:** 4.28 in (109 mm)

**Depth:** 5.60 in (143 mm)

## Weight

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14.6 oz (414 g)

## MODELS & ACCESSORIES

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### Available Models

**CEN-HPRFGW:** Extended Range RF Wireless Gateway

**CENI-HPRFGW:** Extended Range RF Wireless Gateway - International Version, 230V

### Included Accessories

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**PW-1205:** Power Pack, Wall, 12VDC, 0.5A, 120VAC (Qty. 1 included with CEN-HPRFGW)

**PWI-1215:** Power Pack, Desktop, 12VDC, 1.5A, 230VAC (Qty. 1 included with CENI-HPRFGW)

### Available Accessories

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**ANT-EXT-5:** 5 ft Antenna Extender

**ANT-EXT-10:** 10 ft Antenna Extender

**CRESNET-NP:** Cresnet® Control Cable, non-plenum

**CRESNET-P:** Cresnet® Control Cable, plenum

**CRESNET-HP-NP:** Cresnet® “High-Power” Control Cable, non-plenum

Notes:

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 [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

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