CEN-HPRFGW

High Powered RF Gateway

The CEN-HPRFGW gateway is an RF transceiver that enables the Isys™ TPS-6X wireless touchpanel to communicate with a 2-Series control system. "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 affords a range of approximately 100 to 200 feet indoors and up to 1000 feet outdoors. For even greater coverage, the TPS-6X supports roaming amongst up to 8 CEN-HPRFGW gateways.

Up to 16 touchpanels may be associated with any single CEN-HPRFGW gateway. Setup is simple, utilizing dynamic discovery to locate and acquire each touchpanel and gateway automatically. Each wireless connection is monitored continuously, diligently keeping track when touchpanels go to sleep, shut down, or wander out of range, and restoring communications seamlessly when any touchpanel reappears on the network. The control data to and from each associated touchpanel is passed cleanly and quickly through the gateway without any cumbersome processing to effect 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.

- > 2-way RF wireless transceiver/gateway
- > Supports up to 16 TPS-6X touchpanels
- > 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

SPECIFICATIONS

Wireless

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

RF 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

Maximum 16 touchpanels per gateway

Communications

Ethernet: 10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP **Cresnet:** Supports Cresnet slave mode



Controls and LED 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

Connectors

LAN: (1) 8-wire RJ45 with 2 LED indicators;

10/100BaseT Ethernet port;

Green LED indicates link status;

Yellow LED indicates Ethernet activity

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

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 (PW-1205 power pack included)

Power Requirements

Power Pack: 0.5 Amps @ 12 Volts DC;

120 Volts AC, 60 Hz power pack, model PW-1205, included

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

Enclosure

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



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Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Dimensions

(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

14.6 oz (414 g)

INTERNATIONAL VERSION (230 VAC)

CENI-HPRFGW

All the features and specifications of the CEN-HPRFGW except:

Power Requirements

Power Pack: 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

Available Models

CEN-HPRFGW: High Powered RF Gateway

CENI-HPRFGW: High Powered RF Gateway - International Version, 230V

Included Accessories

PW-1205 Power Pack, Wall, 12VDC, 0.5A, 120VAC

[Included Quantity for CEN-HPRFGW: 1]

PWI-1215 Power Pack, Desktop, 12VDC, 1.5A, 230VAC

[Included Quantity for CENI-HPRFGW: 1]

Available Accessories

ANT-EXT-5: 5 ft Antenna Extender

[Just Released]

ANT-EXT-10: 10 ft Antenna Extender

[Just Released]

CRESNET-NP-TL-B250: Cresnet® Control Cable, non-plenum, teal, 250 ft box

CRESNET-NP-TL-B500: Cresnet® Control Cable, non-plenum, teal, 500 ft box

CRESNET-NP-TL-SP500: Cresnet® Control Cable, non-plenum, teal, 500 ft spool

CRESNET-NP-TL-SP1000: Cresnet® Control Cable, non-plenum, teal, 1000 ft

spool

CRESNET-NP-BK-B500: Cresnet® Control Cable, non-plenum, black, 500 ft box

CRESNET-NP-OR-B500: Cresnet® Control Cable, non-plenum, orange, 500 ft box

CRESNET-NP-YL-B500: Cresnet® Control Cable, non-plenum, yellow, 500 ft box

CRESNET-P-TL-SP500: Cresnet® Control Cable, plenum, teal, 500 ft spool CRESNET-P-TL-SP1000: Cresnet® Control Cable, plenum, teal, 1000 ft spool

CRESNET-P-BK-SP500: Cresnet® Control Cable, plenum, black, 500 ft spool

CRESNET-P-OR-SP500: Cresnet® Control Cable, plenum, orange, 500 ft spool

CRESNET-P-YL-SP500: Cresnet® Control Cable, plenum, yellow, 500 ft spool

CRESNET-HP-NP-TL-SP500: Cresnet® "High-Power" Control Cable, non-plenum, teal, 500 ft spool

CRESNET-HP-NP-TL-SP1000: Cresnet® "High-Power" Control Cable, non-plenum, teal, 1000 ft spool



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