

PYNG-HUB

Control Hub for Crestron Pyng™

- > Provides an interface for the Crestron Pyng™ app
- > Interfaces with Pyng app and other controllers to send commands to connected infiNET EX® accessories
- > Surface or DIN rail mountable using bracket provided
- > Available rack mount option^[1]
- > PoE network powered

The PYNG-HUB receives and routes commands from the Crestron Pyng™ app or other control accessories. It has connections for a dedicated power supply and Ethernet with PoE. In addition to cloud backup, your settings are also stored in the hub.

The PYNG-HUB supports 50 infiNET EX® accessories. Up to three external gateways can be added, each of which supports 50 accessories, for a total of 200 infiNET EX accessories on a Pyng network.

Integrator Friendly Enclosure

The PYNG-HUB 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 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. A rack mount kit is also available^[1].

infiNET EX

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption^[2]. Every device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths^[2].

Power over Ethernet

The hub communicates with the Pyng app via high-speed Ethernet and can get its operating power over the same Ethernet connection using PoE technology or using the included power supply. To power the hub, Crestron offers the PWE-4803RU PoE Injector^[1], which simply connects in line with the Ethernet cable. Crestron also offers Ethernet switches with built-in PoE (models CEN-SW-POE-5 or CEN-SWPOE-16^[1]), affording a complete high-performance networking solution capable of powering multiple PoE powered devices.

SPECIFICATIONS

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, IEEE 802.3af and 802.3at Type 1 compliant



Wireless (infiNET EX®):

RF Transceiver: infiNET EX 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant

Range (typical): 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s); subject to site-specific conditions and individual device capabilities^[2]

Cresnet®: Cresnet master mode (for future use)

Power Requirements

Power over Ethernet (PoE): IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95W) PoE Powered Device; Requires a PoE injector or PoE switch^[1]

Power Pack:

Model: PW-2407WU outlet-mounted power supply

Input: 100-240 VAC, 50/60HZ, 0.4 A

Output: 24 VDC, 0.75 A

Connectors

Computer: (1) micro-B USB port (for factory use only)

Memory: (1) Slot for memory card

G: (1) 4-40 screw, chassis ground lug

24V: (1) Connector, for power pack

LAN/PoE: (1) Ethernet port, Power over Ethernet compliant

NET: (1) 4-pin 3.5 mm detachable terminal block, Cresnet master port (for future use)

Controls & Indicators

PWR: (1) Green LED, indicates device is powered on

NET: (1) Amber LED, indicates network communication

PAIR: (1) Red LED, indicates accessory is being paired

HW-R: (1) Pushbutton, initiates hardware reset

SW-R: (1) Pushbutton, initiates software reset

PYNG-HUB Control Hub for Crestron Pyng™

Environmental

Temperature: 41° to 113°F (5° to 45°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 26 BTU/Hr

Construction

Enclosure: IFE small form factor, white 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 kit sold separately

Dimensions

Height: 1.35 in (35 mm); 1.77 in (45 mm) with bracket
Width: 5.04 in (128 mm); 5.36 in (137 mm) with bracket
Depth: 5.10 in (130 mm)

Weight

11.20 oz (318 g)

Standards & Certifications

UL Listed, CE

MODELS & ACCESSORIES

Available Models

PYNG-HUB: Control Hub for Crestron Pyng™

Included Accessories

PW-2407WU: Wall Mount Power Pack 24VDC, 0.75A, Universal

Available Accessories

PWE-4803RU: PoE Injector
CEN-SW-POE-5: 5-Port PoE Switch

CEN-SWPOE-16: 16-Port Managed PoE Switch
PYNG-CONNECT-COM: COM Port Expander for PYNG-HUB
RMK-IFE-1U: IFE Rack Mount Kit

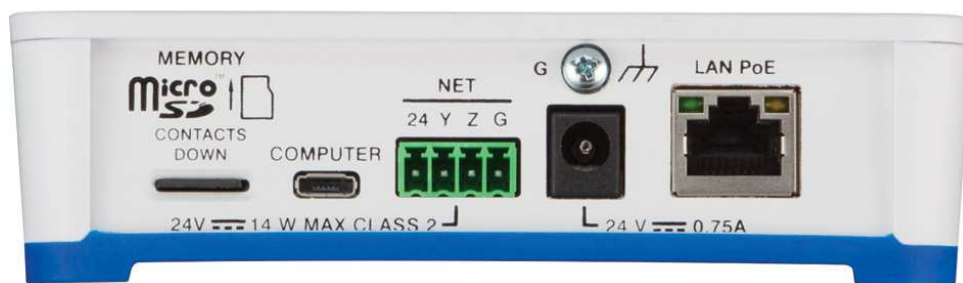
Notes:

1. Item(s) sold separately.
2. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality.

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 or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Crestron, the Crestron Logo, Crestron Pyng, and infiNET EX are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. Apple and iPad are either trademarks or registered trademarks of Apple Inc. in the United States and/or other countries. Other 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. Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography. ©2014 Crestron Electronics, Inc.



ABOVE: PYNG-HUB, BACK VIEW