

# Crestron Pyng® Control Hub

- > Communicates with the Crestron Pyng® App via an internet connection
- > Interfaces with wireless and wired lighting controls, motorized shades, thermostats, security systems, door locks, occupancy sensors, daylight sensors, AV, and other equipment<sup>[2]</sup>
- > Built-in infiNET EX® wireless network gateway<sup>[1,3]</sup>
- > Cresnet® master port for wired devices<sup>[1]</sup>
- > High-Speed LAN port for Ethernet devices and internet connection
- > Optional COM port expander adds an RS-232 interface for third-party devices<sup>[2]</sup>
- > Stores system configuration settings onboard
- > Cloud backup for reliability and serviceability
- > Memory card slot for event logging (Micro SD card not included)
- > Crestron "IFE" Integrator Friendly Enclosure
- > Surface or DIN rail mountable using bracket provided
- > Available rack mount and pole mount options<sup>[2]</sup>
- > PoE, Cresnet, or line powered
- > External 100-240 VAC universal power pack included

The Crestron Pyng® Control Hub (PYNG-HUB) communicates with the Crestron Pyng App (CRESTRON-PYNG) via an internet connection to enable control and monitoring of AV, lights, shades, thermostats, security systems, door locks, occupancy sensors, daylight sensors, and other equipment. It also enables control of the equipment using Crestron® touch screens and keypads.

Built-in infiNET EX®, Cresnet®, and Ethernet provide both wireless and wired connectivity to support a wide range of Crestron devices.<sup>[1]</sup> A variety of third-party devices and services can also connect to the control hub via Ethernet and the Internet, or via RS-232 using the optional COM Port Expander

System setup and configuration is accomplished by a Crestron authorized installer using the Crestron Pyng App. Configuration settings are stored onboard the control hub and backed up in the cloud to ensure reliable operation and easy serviceability. Simplified internet access is enabled using the [myCrestron Dynamic DNS Service](#).

## SPECIFICATIONS

### Wired Communications

**Ethernet:** 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, IEEE 802.3at Type 1 compliant

**Cresnet:** Cresnet master mode<sup>[1]</sup>



### Wireless Communications<sup>[1]</sup>

**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:** 50 ft (15 m) to nearest mesh network device(s), subject to site-specific conditions and individual device capabilities, range between floors or ceilings is limited to one level<sup>[3]</sup>

*Note: Do not rackmount or stack multiple units when using wireless. Use care when positioning the device to avoid interference from nearby RF devices, obstructions, and metal surfaces.*

### Connectors

**MEMORY:** (1) Micro SD memory card slot;  
 Accepts one Micro SD card for storage of log files

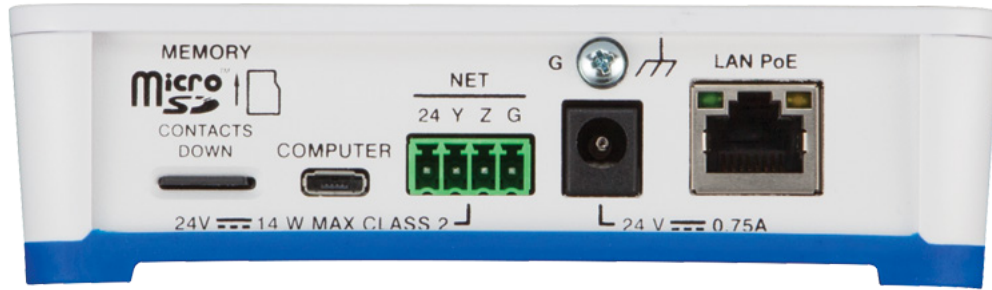
**COMPUTER:** (1) USB Type Micro-B connector, female;  
 Service port for factory use only

**NET:** (1) 4-pin 3.5 mm detachable terminal block;  
 Cresnet master port<sup>[1]</sup>;  
 Outputs power to Cresnet devices if the included power pack is connected to the 24 VDC power input jack;  
 Alternately functions as a Cresnet power input to power the unit from a Cresnet power supply<sup>[2]</sup>;  
 See "Power" section below for additional specifications

**G:** (1) 4-40 screw;  
 Chassis ground lug

**24 VDC 0.75A:** (1) 2.1 x 5.5 mm DC power connector;  
 24 Volt DC power input (power pack included);  
 Passes through to the NET port to power Cresnet devices;  
 See "Power" section below for additional specifications

**LAN PoE:** (1) 8-pin RJ45 connector, female;  
 10Base-T/100Base-TX Ethernet port;  
 PoE PD port



Rear View

**Controls & Indicators**

**PWR:** (1) Green LED, indicates operating power is supplied via PoE, a power pack, or Cresnet  
**NET:** (1) Amber LED, indicates communication with Cresnet devices  
**PAIR:** (1) Red LED, indicates when pairing with an infiNET EX wireless device  
**HW-R:** (1) Pushbutton, initiates hardware reset  
**SW-R:** (1) Pushbutton, initiates software reset  
**LAN PoE (rear):** (1) Green and (1) amber LEDs, green indicates Ethernet link status, amber indicates Ethernet activity

**Power**

**Power Source Options:** PoE, power pack, or Cresnet; safe to connect PoE simultaneously with either Cresnet or power pack  
**Power over Ethernet:** IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95 W) PoE Powered Device  
**Power Pack (included):**  
 Input: 0.4 Amps maximum @ 100-240 Volts AC, 50/60 Hz;  
 Output: 0.75 Amps @ 24 Volts DC;  
 Model: PW-2407WU  
**Cresnet Power Usage:** 4 Watts (0.17 Amp @ 24 Volts DC) when powered by a Cresnet power supply [2]  
**Available Cresnet Power:** 14 Watts (0.6 Amp @ 24 Volts DC) when powered by the included power pack  
**Power Consumption:** 4 Watts (not including any connected Cresnet devices)

**Environmental**

**Temperature:** 41° to 113° F (5° to 45° C)  
**Humidity:** 10% to 90% RH (non-condensing)  
**Heat Dissipation:** 14 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 and pole mount kits sold separately

**Dimensions**

**Height:** 1.35 in (35 mm); 1.77 in (45 mm) with bracket  
**Width:** 5.04 in (129 mm); 5.36 in (137 mm) with bracket  
**Depth:** 5.04 (129 mm)

**Weight**

9.9 oz (281 g);  
 11.3 oz (321 g) with bracket

**Compliance**

UL Listed for US and Canada, CE, IC, FCC Part 15 Class B digital device

**MODELS & ACCESSORIES**

**Available Models**

**PYNG-HUB:** Creston Pyng® Control Hub

**Included Accessories**

**PW-2407WU:** 24 Volt DC Power Pack

**Available Accessories**

**CRESTRON-PYNG:** Creston Pyng® App  
**PYNG-CONNECT-COM:** COM Port Expander for PYNG-HUB  
**RMK-IFE-1U:** IFE Rack Mount Kit  
**PLMK-IFE-101:** IFE Pole Mount Kit  
**PWE-4803RU:** PoE Injector  
**CEN-SW-POE-5:** 5-Port PoE Switch  
**CEN-SWPOE-16:** 16-Port Managed PoE Switch  
**MYCRESTRON-DDNS:** myCreston Dynamic DNS Service for Creston Systems