

Zūm™ Net Wireless Gateway

- > Enables Zūm™ Net wireless communication for a single Zūm Floor Hub
- > Supports up to 100 Zūm Network Bridges^[2]
- > Ultra-dependable Zūm Net mesh network technology^[2]
- > Dynamic discovery for fast, easy setup
- > “Wi-Fi® friendly” channel auto-selection for trouble-free operation
- > Built-in RF network diagnostics
- > 50 feet (15 meters) range to nearest Zūm Net device^[2]
- > Compact “IFE small” form factor
- > Surface or DIN rail mountable using bracket provided
- > Available rack mount and pole mount options^[1]
- > Antenna extender available separately
- > High-speed Ethernet interface
- > 24VDC or PoE network powered
- > PoE injector or 24VDC power pack sold separately

The Zūm™ Net Wireless Gateway (ZUMNET-GATEWAY) is a 2-way RF wireless transceiver designed for use with Crestron® Zūm Net wireless devices. Specifically, it enables wireless communication between the Zūm Floor Hub (ZUM-FLOOR-HUB^[1]) and any rooms on the floor equipped with a Zūm Network Bridge (ZUMMESH-NETBRIDGE^[1]). Networking each room with the Zūm Floor Hub allows each room to be centrally monitored, managed, and controlled as part of a complete Zūm enterprise lighting solution. Using Zūm Net wireless technology affords fast, easy installation and configuration without wires.

Zūm Across the Enterprise

Zūm delivers cutting-edge wireless lighting control and heightened energy efficiency for the intelligent enterprise. With each room wirelessly networked to a Zūm Floor Hub, Zūm synergizes lighting control across the enterprise by providing centralized monitoring, management, and reporting capabilities. Zūm Net wireless communication is enabled by simply adding a Zūm Network Bridge to each room and pairing it with the Zūm Net Wireless Gateway, which connects via Ethernet to the Zūm Floor Hub’s Control Subnet port.

Zūm Net Wireless Technology

Ultra-reliable Zūm Net wireless technology provides steadfast 2-way RF communications throughout a commercial structure without the need for physical control wiring. Employing a Wi-Fi® friendly 2.4 GHz mesh network topology, every Zūm Net device acts as a “routing node,” relaying wireless commands between the Zūm Net gateway and all the other Zūm Net devices to ensure that every command reaches its intended destination without disruption. Each Zūm Net device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths. The wireless range between any two Zūm Net devices is typically 50 feet (15 meters).^[2]

Easy Setup

Setting up a network of Zūm Net devices is simple, utilizing dynamic discovery to locate and acquire each device automatically. The Zūm Net



gateway can support up to 100 Zūm Network Bridges. A complete Zūm enterprise lighting system commonly consists of multiple Zūm Net gateways and Zūm floor hubs dispersed throughout a building or campus, all networked together via Ethernet.

Single-Wire Hookup

The ZUMNET-GATEWAY communicates with the Zūm Floor Hub over Ethernet and gets its operating power over the same Ethernet connection using PoE technology. PoE (Power over Ethernet) simply requires the presence of an 802.3af or 802.3at PoE power source.

- Crestron offers the [PWE-4803RU](#) PoE Injector, which connects inline with the Ethernet cable, allowing for installation at any convenient location between the gateway and the floor hub (or network switch if implemented). The PWE-4803RU is capable of powering a single gateway, and is sold separately.
- Crestron also offers Ethernet switches with built-in PoE (models [CEN-SW-POE-5](#) and [CEN-SWPOE-16](#)^[1]), affording a complete networking solution capable of providing PoE for multiple gateways and other PoE devices. Using an Ethernet switch with built-in PoE eliminates the need for individual PoE Injectors.

As an alternative to PoE, the ZUMNET-GATEWAY can be powered using an optional 24VDC power pack, model [PW-2407WU](#).^[1]

Integrator Friendly Enclosure

The ZUMNET-GATEWAY features the Crestron IFE form factor, a compact “Integrator Friendly Enclosure” design that fits almost anywhere and enables a variety of installation options. Using the included mounting bracket, it can be fastened to any flat surface or snapped onto a standard DIN rail. [Rack mount](#) and [pole mount](#) kits are also available separately.

ZUMNET-GATEWAY Zūm™ Net Wireless Gateway



Rear & Front Views

Please refer to the Zūm Lighting Control System Setup Guide (Doc # 7957) for additional information.

SPECIFICATIONS

Supported Devices

Zūm Net Devices: Supports Crestron Zūm Net wireless devices only^[2]
Maximum Devices Allowed: Supports up to 100 Zūm Network Bridges per Zūm Net Gateway^[2]

Wireless Communications

RF Transceiver: Zūm Net 2-way RF, 2.4 GHz ISM Channels 15, 20, 25, or 26 (channel auto-selected), IEEE 802.15.4 compliant
Range: 50 ft (15 m) to nearest Zūm Net mesh network device(s), subject to site-specific conditions and individual device capabilities, range between floors or ceilings is limited to one level^[2]
Note: Do not stack multiple gateways.

Wired Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, IEEE 802.3at Type 1 compliant
USB: USB device port for setup

Controls & Indicators

PWR: (1) Green LED, indicates operating power supplied via PoE or 24VDC
ACT: (1) Green LED, indicates wireless RX and TX data activity

ACQUIRE: (1) Recessed pushbutton with red LED, used to set up connections with wireless devices
SETUP: (1) Recessed pushbutton with red LED, used to set up connection with the Zūm Floor Hub via Ethernet
RESET: (1) Recessed pushbutton, for hardware reset
LAN PoE: (1) Green and (1) Amber LEDs, green indicates Ethernet link status, amber indicates Ethernet activity

Connectors

ANTENNA: (1) Connection for supplied antenna
COMPUTER: (1) Micro-B USB connector, female; Computer console port, for installer use only; 6 ft (2.83 m) Micro-B to A USB cable included
G: (1) 4-40 screw; Chassis ground lug
24VDC 0.75A: (1) 2.1 x 5.5 mm DC power connector; 24 Volt DC power input; PW-2407WU power pack sold separately
LAN PoE: (1) 8-pin RJ45 connector, female; 10Base-T/100Base-TX Ethernet port; Power over Ethernet compliant

Power

Power over Ethernet: IEEE 802.3at Type 1 (802.3af compatible) Class 1 (3.84 W) PoE Powered Device

Power Pack: 0.75 Amps (minimum) at 24 Volts DC; 100-240 Volts AC, 50/60 Hz power pack, model PW-2407WU sold separately

Power Consumption: 2.1 Watts typical

Environmental

Temperature: 41° to 104° F (5° to 40° C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 7 BTU/hr

Construction

Enclosure: IFE small form factor, black and blue plastic
Mounting: Freestanding, 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

(Without antenna)
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: 5.20 in (133 mm)

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Weight

8.9 oz (253 g) without bracket

Compliance

IC, FCC Part 15 Class B digital device

MODELS & ACCESSORIES

Available Models

ZUMNET-GATEWAY: Züm™ Net Wireless Gateway

Available Accessories

ANT-EXT: Antenna Extender

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

PW-2407WU: 24 Volt DC Power Pack



Shown with mounting bracket

Notes:

1. Item(s) sold separately. Refer to each product's spec sheet for more information.
2. "Züm Net" refers to the wireless mesh network that connects one or more rooms with a Züm Floor Hub, and consists of one Züm Net Wireless Gateway and one or more Züm Network Bridges. Each Züm Network Bridge functions as a routing node, which relays the signals it receives on to any other Züm Net devices within range. This effectively extends the total range of the network and provides multiple redundant signal paths for extra reliability. A maximum of six "hops" across routing nodes is allowed, although a maximum of three is recommended. Up to 100 Züm Net devices are permitted per gateway, although best practices suggest a limit of 50. Refer to the "Installation and Setup of Crestron RF Products, Best Practices" guide ([Doc # 6689](#)) for additional guidelines.

This product may be purchased from an authorized Crestron dealer or distributor. 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/salesreps or by calling 800-237-2041.

Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at <http://www.crestron.com/about/partner-info/commercial-lighting-consultants>. For assistance with incorporating this product into a design or specification, please contact the Commercial Lighting Consultant Hotline via email at clcdesign@crestron.com or by calling 888-330-1502.

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

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

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