

Zūm® Net Wireless Gateway for Zūm Lighting Control System



- *Enables Zūm® Net wireless communication for a single ZUM-HUB4*
- *Supports up to 50 Zūm Network Bridges*
- *Ultra-dependable Zūm Net mesh network technology*
- *Dynamic discovery for fast, easy setup*
- *Wi-Fi® communication friendly channel auto-selection for trouble-free operation*
- *Built-in RF network diagnostics*
- *100 feet (31 meters) range to nearest Zūm Net device*
- *Compact "IFE small" form factor*
- *Surface or DIN rail mountable using bracket provided*
- *Available rack mount and pole mount options*
- *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. The ZUMNET-GATEWAY facilitates wireless communications between rooms that are equipped with a Zūm Network Bridge ([ZUMMESH-NETBRIDGE](#)). The ZUMNET-GATEWAY relays control between the rooms and the Zūm Hub ([ZUM-HUB4](#)). Networking each room with the Zūm Hub allows each room to be centrally monitored, managed, and controlled as part of a complete Zūm enterprise lighting solution.

Zūm Across the Enterprise

Zūm delivers cutting-edge wireless lighting control and heightened energy efficiency for the intelligent enterprise. With each room networked to a Zūm 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 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® communication 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.² 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 100 ft (31 m).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 50 Zūm Network Bridges.² A complete Zūm enterprise lighting system commonly consists of multiple Zūm Net gateways and Zūm hubs dispersed throughout a building or campus.

Single Wire Hookup

The ZUMNET-GATEWAY communicates with the Zūm Hub over Ethernet and gets its operating power over the same Ethernet connection using PoE (Power over Ethernet) technology. PoE 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 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-161](#)), 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 most flat surfaces or snapped onto a standard DIN rail. [Rack mount](#) and [pole mount](#) kits are also available separately.¹

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Specifications

Supported Devices

Zūm Net Devices	Supports Crestron Zūm Net wireless devices only ²
Maximum Devices Allowed	Supports up to 50 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	100 ft (31 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

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 Hub via Ethernet
RESET	(1) Recessed pushbutton, for hardware reset
LANPoE	(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; 24VDC power input; PW-2407WU power pack sold separately
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LAN PoE	(1) 8 pin RJ 45 connector, female; 10Base T/100Base TX Ethernet port; Power over Ethernet compliant
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Power

Power over Ethernet	IEEE 802.3at Type 1 (802.3af compatible) Class 1 (3.84 W) PoE Powered Device
Power Pack	0.75 A (minimum) at 24VDC; 100 240VAC, 50/60 Hz power pack, model PW-2407WU sold separately
Power Consumption	2.1 W typical

Environmental

Temperature	41° to 104°F (5° to 40°C)
Humidity	10% to 90% RH (noncondensing)
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

Height	1.35 in. (35 mm); 1.77 in. (45mm) with bracket
Width	5.04 in. (128 mm); 5.36 in. (137 mm) with bracket
Depth	5.20 in. (133 mm)

Weight

8.9 oz (253 g) without bracket

Compliance

Regulatory Model: M201903003

IC, FCC Part 15 Class B digital device

Models

ZUMNET-GATEWAY

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Available Accessories

For a list of available accessories, visit the [ZUMNET-GATEWAY](#) product page.

Notes:

1. Item(s) sold separately. Refer to each product's spec sheet for more information.
2. "Zūm Net" refers to the wireless mesh network that connects one or more rooms with a Zūm Hub, and consists of one Zūm Net Wireless Gateway and one or more Zūm Network Bridges. Each Zūm Network Bridge functions as a routing node, which relays the signals it receives on to any other Zūm 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 50 Zūm Net devices are permitted per gateway. Refer to the "Installation and Setup of Crestron RF Products, Best Practices" guide (Doc # 6689) for additional guidelines.

This product may be purchased from select authorized Crestron dealers and distributors. 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/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at 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.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

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

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

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Rev 11/12/21

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