

## Zum™ Network Bridge

- > Converts a standalone, single-room Zum™ lighting control system into a centrally managed networked system
- > Zum Net wireless mesh network technology affords robust, building-wide communications without running wires<sup>[2]</sup>
- > Provides Bluetooth® connectivity for easy room configuration using the Zum mobile app
- > Attaches to a Zum J-Box Load Controller or Zum J-Box Accessory Power Supply<sup>[1]</sup>
- > UL® 2043 listed for installation in an environmental air handling space
- > Meets UL 916 standard for energy management equipment
- > Meets CEC Title 24 energy efficiency standards<sup>[3]</sup>
- > Meets ASHRAE® 90.1 energy efficiency standards<sup>[4]</sup>
- > ICC® International Energy Conservation Code® compliant<sup>[5]</sup>

The Zum™ Network Bridge (ZUMMESH-NETBRIDGE) adds enhanced integration and setup capabilities to a Zum lighting control system. It simply snaps onto a Zum J-Box Load Controller or Zum J-Box Accessory Power Supply (ZUMMESH-JBOX or ZUMMESH-JBOX-PSU<sup>[1]</sup>) to enable Zum Net wireless communication with a Zum Floor Hub via a Zum Net Wireless Gateway (ZUM-FLOOR-HUB and ZUMNET-GATEWAY<sup>[1]</sup>). Integration with the Zum Floor Hub enables every room in the building to be centrally monitored, managed, and controlled as part of a complete Zum enterprise lighting solution. The Zum Network Bridge also adds Bluetooth® connectivity within each room to allow simplified setup using a mobile device running the Zum app. Just one network bridge is required per room.<sup>[2]</sup>

### Zum Across the Enterprise

Zum delivers cutting-edge wireless lighting control and heightened energy efficiency for the intelligent enterprise. With each room wirelessly networked to a Zum Floor Hub, Zum synergizes lighting control across the enterprise by providing centralized monitoring, management, and reporting capabilities. Zum Net wireless communication is enabled by simply adding a Zum Network Bridge to each room and pairing it with a Zum Net Wireless Gateway, which connects to the Zum Floor Hub via Ethernet. The Zum Network Bridge simply snaps onto a Zum J-Box Load Controller or Zum J-Box Accessory Power Supply in each room.<sup>[1,2]</sup>

### Smart Lighting Control

The Zum Network Bridge takes single-room Zum lighting control to the next level. The Network Bridge comes with a corresponding setup app that enables installers to configure and customize the room's lighting controls. With the app, installers can set scenes, create scheduled events, and set up occupancy, vacancy, and daylight sensors. No programming is required when the controls are literally in hand!

### Zum Net Wireless Technology

Ultra-reliable Zum 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 Zum Net device acts as a "routing node," relaying wireless commands between the Zum Net gateway and all the other Zum Net devices to ensure that every command reaches its intended destination



without disruption. Each Zum 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 Zum Net devices is typically 50 ft (15 m).<sup>[2]</sup>

*Please refer to the [Zum Lighting Control System Setup Guide \(Doc # 7957\)](#) for additional information.*

## SPECIFICATIONS

### Wireless Communications

**Bluetooth:** Bluetooth low energy, Version 4.0, pairs with a mobile device running the Zum app

**Zum Net:** (Refer to the host J-Box device)<sup>[2]</sup>

*Note: Only one Network Bridge is permitted per room.*

### Controls & Indicators

**SET:** (1) Pushbutton and (1) red LED, used to connect to a Zum Net Wireless Gateway<sup>[1]</sup>

### Power

Draws 60 mA average, 250 mA peak at 3.3 Volts DC, provided by a Zum J-Box Load Controller or Zum J-Box Accessory Power Supply<sup>[1]</sup>

### Environmental

**Temperature:** 32° to 104° F (0° to 40° C)

**Humidity:** 10% to 90% RH (non-condensing)

### Construction

**Housing:** Plastic, white, UL 94 5VA flame rated

**Mounting:** Attaches to a Zum J-Box Load Controller or Zum J-Box

# ZUMMESH-NETBRIDGE Zūm Network Bridge

Accessory Power Supply<sup>[1]</sup>, meets the requirements of UL 2043 for installation in an environmental air-handling (plenum) space

## Dimensions

**Height:** 1.66 in (42 mm)

**Width:** 1.94 in (49 mm)

**Depth:** 1.01 in (26 mm)

*Note: Projects ~0.75 inches (~18 mm) when attached to the J-Box unit.*

## Weight

3 oz (85 g)

## Compliance

UL Listed for US & Canada, IC, FCC Part 15 Class A digital device, UL 916, UL 2043, UL 94 5VA, CEC Title 24<sup>[3]</sup>, ASHRAE 90.1<sup>[4]</sup>, IECC<sup>[5]</sup>

## MODELS & ACCESSORIES

### Available Models

**ZUMMESH-NETBRIDGE:** Zūm Network Bridge

### Available Accessories

**ZUMMESH-JBOX:** Zūm J-Box Load Controller

**ZUMMESH-JBOX-PSU:** Zūm Accessory Power Supply

**ZUMNET-GATEWAY:** Zūm Net Wireless Gateway

**ZUM-FLOOR-HUB:** Zūm Floor Hub

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 Zūm equipped rooms with a Zūm Floor Hub, and consists of a Zūm Net Wireless Gateway and one or more

Zūm Network Bridges. Zūm Net devices function as routing nodes, which effectively extend the range of a Zūm Net wireless network. Refer to the "Installation and Setup of Crestron RF Products, Best Practices" guide (Doc #6689) for additional guidelines.

3. This product is part of a California Energy Commission Title 24 compliant solution. Refer to <http://www.energy.ca.gov/title24/> to learn more about designing a fully compliant solution. Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at <http://www.crestron.com/about/partner-info/commercial-lighting-consultants>.
4. This product is part of an ASHRAE 90.1 compliant solution. Refer to <https://www.ashrae.org/> to learn more about designing a fully compliant solution. Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at <http://www.crestron.com/about/partner-info/commercial-lighting-consultants>.
5. This product is part of an International Energy Conservation Code compliant solution. Refer to <https://www.iccsafe.org/iecc/> to learn more about designing a fully compliant solution. Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at <http://www.crestron.com/about/partner-info/commercial-lighting-consultants>.

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](http://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](mailto:clcdesign@crestron.com) or by calling 888-330-1502.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

Crestron, the Crestron logo, and Zūm are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. ASHRAE is either a trademark or registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. in the United States and/or other countries. Bluetooth is either a trademark or a registered trademark of Bluetooth SIG, Inc. in the United States and/or other countries. ICC and International Energy Conservation Code are either trademarks or registered trademarks of International Code Council, Inc. in the United States and/or other countries. UL is either a trademark or registered trademark of UL LLC in the United States and/or other countries. Wi-Fi is either a trademark or a registered trademark of Wi-Fi Alliance in the United States and/or other countries. Other trademarks, registered 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. Crestron is not responsible for errors in typography or photography. Specifications are subject to change without notice. ©2017 Crestron Electronics, Inc.

