

## Züm™ J-Box Accessory Power Supply

- > Provides a means for adding a Züm™ Network Bridge or Contract Closure Output to a Züm lighting system
- > Züm Mesh peer-to-peer RF communications
- > Pair and play wireless integration with Züm dimmers, switches, occupancy sensors, vacancy sensors, and daylight sensors<sup>[1]</sup>
- > 100-277 Volts AC line powered
- > Flying lead wiring connections
- > Knockout mount to a standard 4-inch square junction box
- > 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 **ZUMMESH-JBOX-PSU** is an accessory power supply that mounts to a four inch square junction box and provides a host for a Züm™ Network Bridge (**ZUMMESH-NETBRIDGE**<sup>[1]</sup>) or Züm Contact Closure Output (**ZUMMESH-CCO**<sup>[1]</sup>). It communicates wirelessly with other Züm Mesh devices in a Züm commercial room lighting system to enable centralized monitoring and management using the network bridge, or to enable integration with an HVAC system using the contact closure output.

The ZUMMESH-JBOX-PSU is similar to a **ZUMMESH-JBOX** load controller, but without any dimming or switch circuitry onboard.

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

### SPECIFICATIONS

#### Power Requirements

Line Power: 100-277 Volts AC, 50/60 Hz

Idle Power Consumption: 1 Watt

#### Wireless Communications

**RF Transceiver:** 2-way RF, 2.4 GHz ISM Channels 15, 20, 25, or 26 (channel auto-selected), IEEE 802.15.4 compliant

**Züm Mesh Range (Typical):** 50 ft (15 m) indoor to nearest peer-to-peer mesh network device(s); Subject to site-specific conditions and individual device capabilities<sup>[2]</sup>

**Züm Net Range (Typical):** 150 ft (46 m) indoor to a Züm wireless gateway or nearest mesh network device(s), requires the Züm Network Bridge (model **ZUMMESH-NETBRIDGE**<sup>[1]</sup>); Subject to site-specific conditions and individual device capabilities<sup>[2]</sup>

*Note: A maximum of 32 Züm Mesh wireless devices is permitted per room. Only one Network Bridge is permitted per room.*



**Züm J-Box Accessory Power Supply (Right)  
Shown with Züm Network Bridge (Left, sold separately)**

#### Controls & Indicators

**SETUP:** (1) Pushbutton and (1) red LED, used for room setup and factory reset

**TEST:** (1) Pushbutton and (1) green LED, used for room setup and factory reset

#### Connections

**Hot:** (1) 14 AWG Class 1 flying lead, black, line power input

**Neutral:** (1) 14 AWG Class 1 flying lead, white, neutral

**Expansion Port:** Accessory port for Züm Network Bridge or Züm Contact Closure Output (model **ZUMMESH-NETBRIDGE** or **ZUMMESH-CCO**<sup>[1]</sup>)

#### Construction

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

**Mounting:** Mounts to the side of a 4-inch square junction box via a 1/2 inch conduit knockout, meets the requirements of UL 2043 for installation in an environmental air-handling (plenum) space

#### Environmental

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

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

#### Dimensions

**Height:** 3.25 in (83 mm)

**Width:** 4.17 in (106 mm)

**Depth:** 1.32 in (34 mm)

*Note: Projects 3.66 inches (93 mm) from the junction box when installed.*

# ZUMMESH-JBOX-PSU Zūm J-Box Accessory Power Supply

## Weight

7 oz (199 g)

## Standards & Certifications

UL 2043, UL 916, UL 94 5VA, CEC Title 24 2013<sup>[3]</sup>, ASHRAE 90.1-2016<sup>[4]</sup>, IECC-2015<sup>[5]</sup>, FCC

## MODELS & ACCESSORIES

### Available Models

ZUMMESH-JBOX-PSU: Zūm J-Box Accessory Power Supply

### Available Accessories

ZUMMESH-NETBRIDGE: Zūm Network Bridge

ZUMMESH-CCO: Zūm Contact Closure Output

#### Notes:

1. Item(s) sold separately. Refer to each product's spec sheet for more information.
2. "Zūm Mesh" refers to the wireless mesh network within each room composed of dimmers, switches, load controllers, keypads, and sensors. "Zūm Net" refers to the wireless mesh network that connects one or more rooms with a Zūm Floor Hub, and consists of a Zūm Wireless Gateway and one or more Zūm Network Bridges. AC-powered Zūm Mesh or Zūm Net devices function as wireless "expanders," which effectively extend the range of a Zūm Mesh

or Zūm Net wireless network. Battery-powered devices do not provide expander functionality. Networks composed predominantly of battery-powered devices may require additional AC-powered devices, such as the ZUMMESH-JBOX-PSU, to function as expanders to fill any gaps in coverage.

3. This product is part of Crestron T24-2013 compliant solutions. Reference the T24-2013 design guide for additional devices required for fully compliant solutions.
4. This product is part of Crestron ASHRAE 90.1-2013 compliant solutions. Reference the ASHRAE 90.1-2013 design guide for additional devices required for fully compliant solutions.
5. This product is part of Crestron IECC-2015 compliant solutions. Reference the IECC-2015 design guide for additional devices required for fully compliant solutions.

All design guides can be accessed via the Consultant Partner Portal at <http://www.crestron.com/about/partner-info/consultants-uplink>.

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.

For assistance with incorporating this product into a design or specification, please contact the Commercial Lighting Consultant Hotline 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).

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