

Zūm™ J-Box Accessory Power Supply

- > Provides a means for adding a Zūm™ Network Bridge or Contract Closure Output to a Zūm lighting system
- > Zūm Mesh peer-to-peer RF communications
- > Pair and play wireless integration with Zūm dimmers, switches, occupancy sensors, vacancy sensors, and daylight sensors [1]
- > 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 [3]
- > Meets ASHRAE 90.1 energy efficiency standards [4]
- > ICC International Energy Conservation Code compliant [5]

The ZUMMESH-JBOX-PSU is an accessory power supply that mounts to a four inch square junction box and provides a host for a Zūm[™] Network Bridge (ZUMMESH-NETBRIDGE [¹¹]) or Zūm Contact Closure Output (ZUMMESH-CCO [¹¹]). It communicates wirelessly with other Zūm Mesh devices in a Zūm 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 Zūm 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

Zūm 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 [2]

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

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



Zūm J-Box Accessory Power Supply (Right) Shown with Zūm 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 Zūm Network Bridge or Zūm Contact
Closure Output (model ZUMMESH-NETBRIDGE or ZUMMESH-CCO [1])

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 [3], ASHRAE 90.1-2016 [4], IECC-2015 [5], FCC

MODELS & ACCESSORIES

Available Models

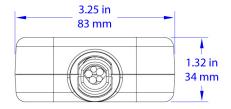
ZUMMESH-JBOX-PSU: Zūm J-Box Accessory Power Supply

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.
- "Zūm Mesh" refers to the wireless mesh network within each room composed of dimmers, switches, load controllers, keypads, and sensors. "Zum 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 Zum Network Bridges. AC-powered Zum Mesh or Zum Net devices function as wireless "expanders," which effectively extend the range of a Zum 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
- 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.
- 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 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 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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