ZUMMESH-JBOX-PSU

Zūm™ ™

Zūm™ J-Box Accessory Power Supply

> Provides a means for adding a Zūm™ Network Bridge or Contract Closure Output to a Zūm lighting system[1]

> Zūm Mesh peer-to-peer RF communications[2]

> 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[1]) or Zūm Contact Closure Output (ZUMMESH-CCO[1]). 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 # 7957) for additional information.

SPECIFICATIONS

Wireless Communications

RF Transceiver: Zūm Mesh & Zūm Net 2-way RF, 2.4 GHz ISM Channels 15, 20, 25, or 26 (channel auto-selected), IEEE 802.15.4 compliant
Zūm Mesh Range: 50 ft (15 m) to nearest Zūm Mesh peer-to-peer mesh network device(s), subject to site-specific conditions and individual device capabilities[2]
Zūm Net Range: 50 ft (15 m) to a Zūm Net wireless gateway or nearest Zūm Net mesh network device(s), requires the Zūm Network Bridge (model ZUMMESH-NETBRIDGE[1]), range between floors or ceilings is limited to one level, 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.

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

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

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])

Power

Line Power: 100-277 Volts AC, 50/60 Hz
Idle Power Consumption: 1 Watt

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: 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

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.

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Weight

7 oz (199 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 [3], ASHRAE 90.1 [4], IECC [5]

MODELS & ACCESSORIES

Available Models

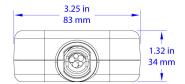**ZUMMESH-JBOX-PSU:** Zūm J-Box Accessory Power Supply

Available Accessories

ZUMMESH-NETBRIDGE: Zūm Network Bridge
ZUMMESH-CCO: Zūm Contact Closure Output
ZUM-FLOOR-HUB: Zūm Floor Hub
ZUMNET-GATEWAY: Zūm Net Wireless Gateway

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 Net Wireless Gateway and one or more Zūm Network Bridges. AC-powered Zūm Mesh or Zūm Net devices function as routing nodes, which effectively extend the range of a Zūm Mesh or Zūm Net wireless network. Battery-powered devices only function as leaf nodes and do not extend range. A Zūm Mesh network composed predominantly of battery-powered devices may require additional AC-powered devices, such as the ZUMMESH-JBOX-PSU, to serve as supplemental routing nodes to fill any gaps in coverage. 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 de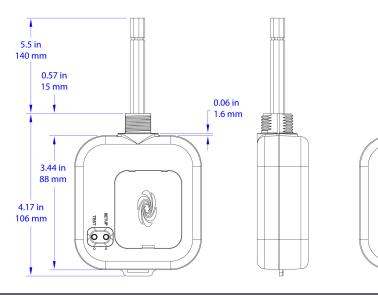signing a fully compliant solution. Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at http://www.crestron.com/about/partner-info/commercial-lighting-consultants.

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 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.

3.25 in
83 mm

1.32 in
34 mm

5.5 in
140 mm

0.57 in
15 mm

0.06 in
1.6 mm

3.44 in
88 mm

4.17 in
106 mm

SETUP
TEST

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