

## Züm® Wired J-Box Load Controller with Link Communication

The Crestron® ZUMLINK-JBOX-16A-LV, ZUMLINK-JBOX-20A-SW, and ZUMLINK-JBOX-20A-PLUG load controllers:

- Provide a sophisticated, wired lighting control solution for Züm® commercial lighting systems.
- Facilitate in-room communication via the CBL-CAT5E-ZUMLINK-P cables (sold separately) for daisy-chained connection to Züm Link load controllers and compatible keypads and sensors.
- Connect to Züm Net devices for communication between rooms.
- Mount directly to a 4 in. square junction box.

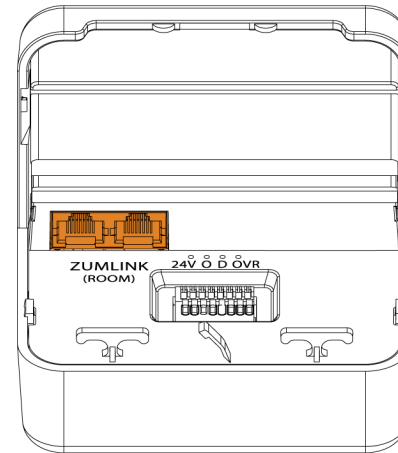
The ZUMLINK-JBOX-16A-LV, ZUMLINK-JBOX-20A-SW, and ZUMLINK-JBOX-20A-PLUG load controllers are functionally similar. For simplicity within this guide, the term "ZUMLINK-JBOX" is used except where otherwise noted.

For more information about the Züm Link and Züm Net load controllers for wired applications, refer to the following product pages:

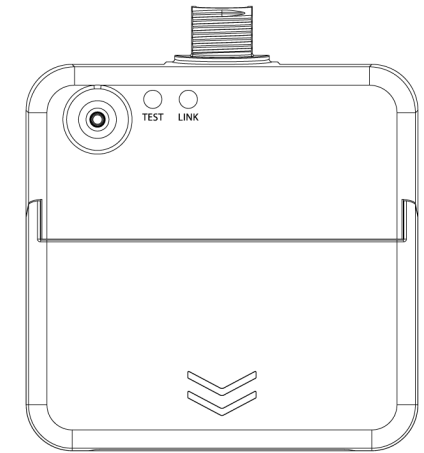
- ZUMLINK-JBOX-16A-LV: 0-10V Dimmer, 16A, 100-277V
- ZUMLINK-JBOX-20A-SW: High Inrush Switch, 20A, 100-277V
- ZUMLINK-JBOX-20A-PLUG: Plug Load Switch, 20A, 100-240V
- ZUMNET-JBOX-16A-LV: 0-10V Dimmer, 16A, 100-277V
- ZUMNET-JBOX-DALI: DALI® Load Controller, 100-277V

**NOTE:** ZUMNET-JBOX devices facilitate communications between rooms via CBL-CAT5E-ZUMNET-P cables (sold separately) and can be daisy-chained for network expansion. Züm Link devices connect to ZUMNET-JBOX devices to provide in-room lighting control.

ZUMLINK-JBOX Open



ZUMLINK-JBOX Closed



### In the Box

- 1 ZUMLINK-JBOX-16A-LV, ZUMLINK-JBOX-20A-PLUG, or ZUMLINK-JBOX-20A-SW, Züm® LINK Wired J-Box Load Controller

#### Additional Items

- 5 Yellow Wire Nut, 22-10 AWG (2049245)
- 1 Locknut (2047626)
- 1 Tie Wrap (2005429)

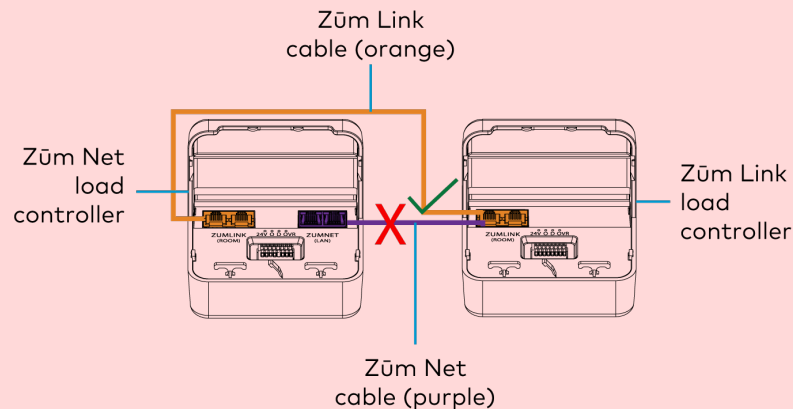
## Zūm® Wired J-Box Load Controller with Link Communication



### Installation

#### WARNINGS:

- To avoid fire, shock, or death, turn off the power at the circuit breaker or fuse and test that the power is off before wiring!
- Do **NOT** connect standard Ethernet ports on network-based devices to the orange Zūm Link ports on any Zūm Link or Zūm Net device. Also, do **NOT** connect the purple Zūm Net ports on the Zūm Net device to the orange Zūm Link ports on any Zūm Link device. These connections may damage network devices.



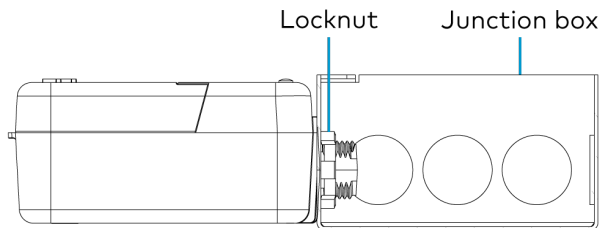
#### NOTES:

- Install and use this product in accordance with appropriate electrical codes and regulations.
- A licensed electrician should install this product.
- The product should project 4.40 in. (112 mm) from the junction box when installed.
- For use where temperatures are between 32° to 104°F (0° to 40°C)
- For Chicago plenum compliant installations:
  - Ensure that the junction boxes and other electrical components are rated for Chicago plenum.
  - Separate the high-voltage lines from the low-voltage cables.
  - Install two junction boxes: one junction box for the high-voltage lines and one junction box for the low-voltage cables and load controller. A 6 in. square, 3.5 in. deep box with conduit knockouts is recommended for the low-voltage cables and load controller.

## Zūm® Wired J-Box Load Controller with Link Communication

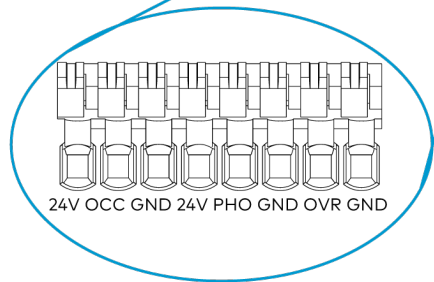
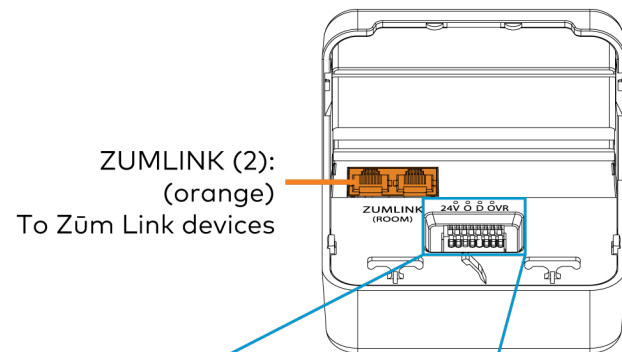
To install a load controller:

1. Turn the power off at the circuit breaker.
2. Mount the load controller to the junction box using the included locknut.



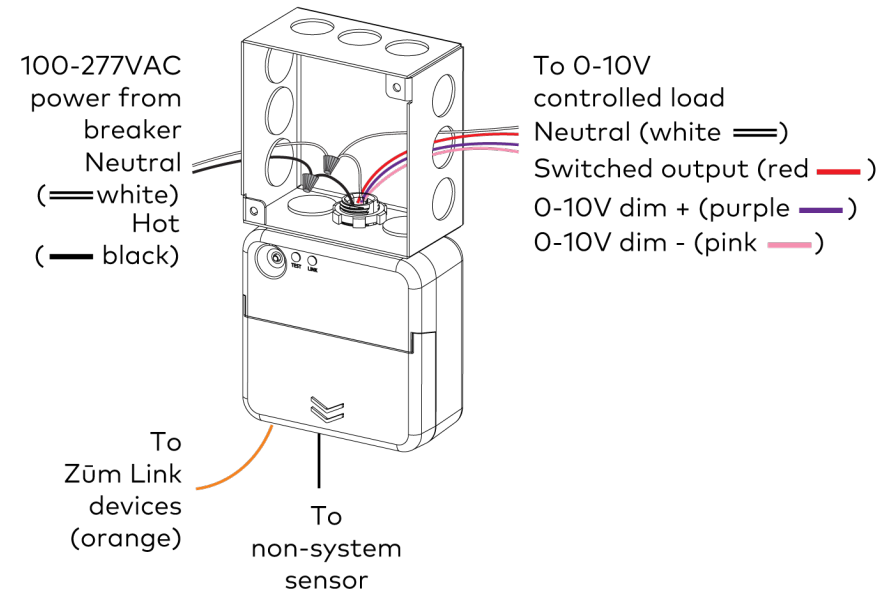
3. Wire the load controller as shown in the following diagrams.

### Zūm Link Load Controller Wiring to Other Zūm Link Devices



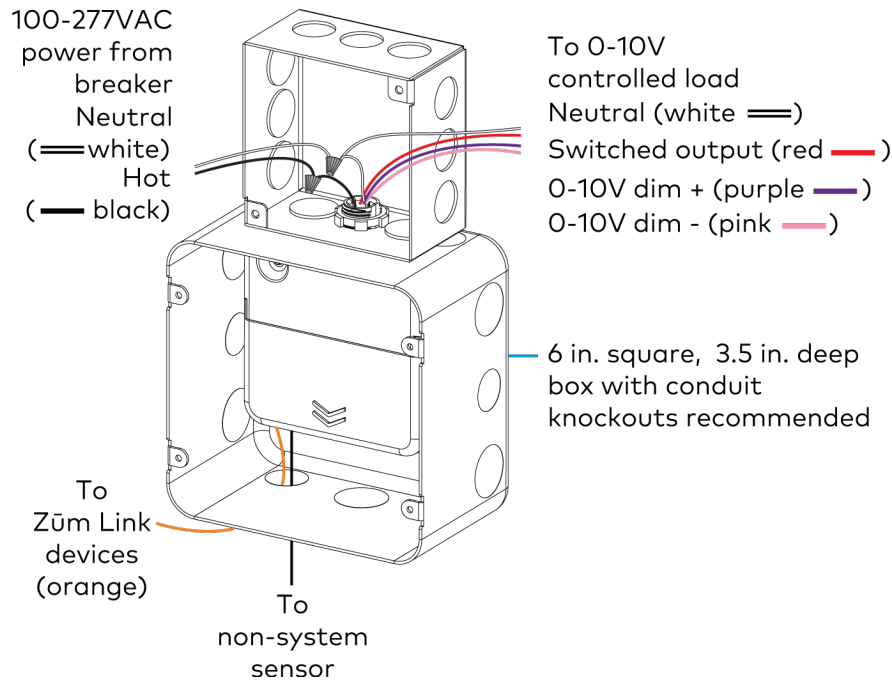
- 24V: Power for occupancy sensor and daylight sensor
- OCC: To occupancy sensor
- GND: To ground
- PHO: To photosensor
- OVR: To override input

### Zūm Link Load Controller Wiring

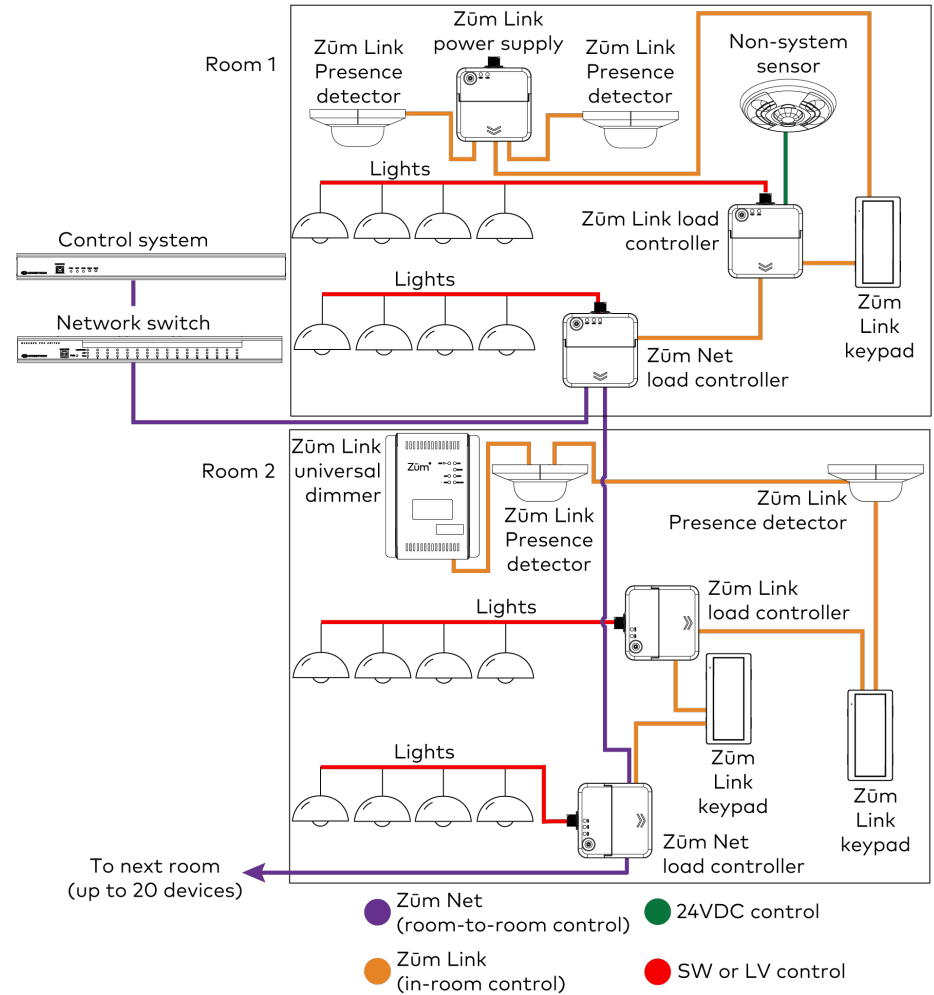


## Zūm® Wired J-Box Load Controller with Link Communication

### Zūm Link Load Controller Wiring to Meet Chicago Electric Code



### Zūm Wired System Diagram



## Zūm® Wired J-Box Load Controller with Link Communication

### NOTES:

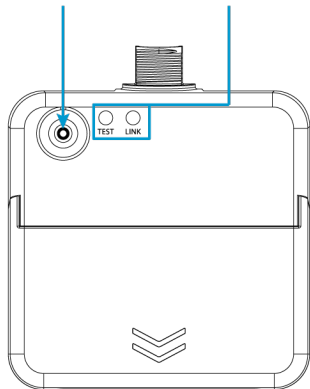
- Daisy-chain up to 20 Zūm Net devices (up to 328 ft (100 m) between Zūm Net devices) with purple CBL-CAT5E-ZUMNET-P RJ-45 cables (sold separately).
- Do not exceed three network switches between a ZUM-HUB4 and a Zūm Net device.
- System sensors communicate digitally via Zūm Link. Non-system sensors communicate via an analog connection on a Zūm Wired load controller.

### Test the Loads

To verify system wiring, test the loads. Tap the **TEST** button to turn the connected loads on and off. Press and hold the **TEST** button to cycle the connected dimmers.

#### Zūm Link Load Controllers

Recessed test button      TEST and LINK LEDs



### Firmware Upgrade

Before using a Zūm Wired device, ensure it is updated with the latest firmware. Check for the latest firmware at [www.crestron.com/firmware](http://www.crestron.com/firmware). Load the firmware onto the device using Crestron Toolbox™ software, the ZUM-HUB4 web interface, or the Zūm app (refer to [Update Firmware for a Zūm Space](#)).



### Operation

A Zūm Wired space consists of at least one Zūm Net or Zūm Link load controller connected to lights, sensors or another Zūm Wired device. Once the devices are installed and connected together in a space, they communicate with each other. Without any programming, the devices behave as described below.

**NOTE:** To add an Zūm Wired device to an existing space, simply connect the device and it will become part of the space logic.

## Zūm® Wired J-Box Load Controller with Link Communication

### Presence Detectors

Non-system (such as the [GLA-IR-QUATTRO-HD-COM1-24](#) or [GLS-ODT-C-NS](#)) and system sensors (such as the ZUMLINK-IR-QUATTRO-DLS) will trigger and control the connected load controller. Non-system sensors connect to the load controller via the I/O ports, while system sensors connect to the load controller via a CBL-CAT5E-ZUMLINK-P cable.

For presence detectors with a relay (such as the ZUMLINK-IR-QUATTRO-DLS-RLY), the default function is set to None. Use the Zūm app to change the functionality to follow occupancy logic or button presses.

#### Presence Detector Functionality When Connected to Load Controllers

Load Controller	Occupancy Detected	Vacancy Detected
ZUMNET-JBOX-16A-LV and ZUMLINK-JBOX-16A-LV	Recalls Scene 1 (all on)	Recalls Scene 16 (all off)
ZUMLINK-JBOX-20A-SW	On	Recalls Scene 16 (all off)
ZUMLINK-JBOX-20A-PLUG	On	Off after grace period delay

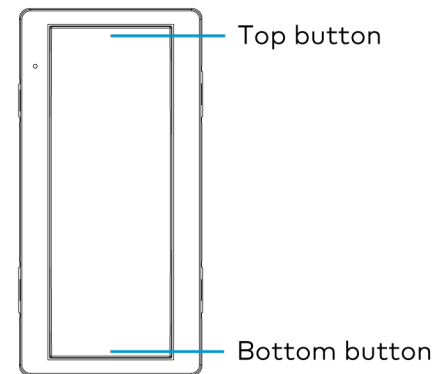
### Keypads

The ZUMLINK-KP-R controls most of the connected load controllers in a space.

**NOTE:** The ZUMLINK-KP-R will not control a ZUMLINK-JBOX-20A-PLUG.

#### ZUMLINK-KP Functionality When Connected to Load Controllers

Load Controller	Top Button Tap	Top Button Hold	Bottom Button Tap	Bottom Button Hold
ZUMNET-JBOX-16A-LV and ZUMLINK-JBOX-16A-LV	Recalls Scene 1	Raise all loads	Recalls Off	Lower all loads
ZUMLINK-JBOX-20A-SW	Recalls On	N/A	Recalls Off	N/A
ZUMLINK-JBOX-20A-PLUG	N/A	N/A	N/A	N/A



## Zūm® Wired J-Box Load Controller with Link Communication

The ZUMLINK-KP-R can be used with any ZUMLINK-BTN button tree for up to 8 programmable buttons. Use the Zūm app to change a button's default functionality. Each of the buttons can be programmed with the following functions:

- None
- Off: Assigned loads controllers turn off.
- On: Assigned loads turn on
- Raise: Assigned load controllers raise.
- Lower: Assigned load controllers lower.
- Recall Scene 1 - Scene 16: Assigned load controllers recall the behavior set for the specified scene.

## Load Controllers

In a room with multiple load controllers, one load controller is the primary controller and the others are secondary. Observe the LINK LED to identify the primary load controller. The LINK LED on the primary load controller consistently flashes for 0.5 seconds on and 0.5 seconds off.

Additional LED behavior is described in the following tables.

### LED Status for Room Primary Load Controllers

LED	LED Color	Description
LINK	Off	The load controller is not polling any secondary load controllers.
LINK	Green (flashes 0.5 seconds on and 0.5 seconds off)	The load controller is the room primary load controller.
TEST	Off	The local load is off.
TEST	Green	The local load is on.
NET (ZUMNET-JBOX only)	Off	The ZUMNET-JBOX is not connected to a control system or ZUM-HUB4.
NET (ZUMNET-JBOX only)	Green	The ZUMNET-JBOX is connected to a control system or ZUM-HUB4.
NET (ZUMNET-JBOX only)	Red	The ZUMNET-JBOX lost connection to a control system or ZUM-HUB4.

## Zūm® Wired J-Box Load Controller with Link Communication

### LED Status for Secondary Load Controllers (ZUMLINK-JBOX only)

LED	LED Color	Description
LINK	Off	The load controller is not being polled by the room primary load controller.
LINK	Green (solid)	The load controller is actively being polled by the room primary load controller.
TEST	Off	The local load is off.
TEST	Green	The local load is on.

### Perform a Factory Reset on a Load Controller

On the load controller, press and hold the **TEST** button for 10 seconds. Release the button when all LEDs turn red. Wait a few seconds for the factory reset to finish.

#### NOTES:

- Performing a factory reset on the primary Zūm Wired load controller restores the space to default functionality and resets the load controller as a secondary device that no longer controls the space. Refer to [Assign a Load Controller as Primary or Secondary](#).
- Performing a factory reset on any other Zūm Wired load controller or device in the space only restores the default settings for that device.

### Assign a Load Controller as Primary or Secondary

Change a load controller from the primary controller to secondary or a secondary controller to primary.

#### NOTES:

- Only one load controller can be assigned as the primary load controller in a Zūm space.
- Zūm Net load controllers are preconfigured as a primary devices. In applications with more than one Zūm Net load controller in the same Zūm space, keep one Zūm Net load controller as the primary controller and follow the procedure to set the others as secondary controllers.

To assign a load controller as the primary or secondary controller:

1. Tap the **TEST** button three times, then press and hold for five to seven seconds.
2. Release the button when the LINK LED flashes red. The load controller reboots.  
After three to five minutes, the LINK LED flashes 0.5 seconds on and 0.5 seconds off consistently.
3. Connect to the Zūm app and confirm the load controller assignment.

### Reboot a Load Controller

To reboot a load controller:

1. Tap the **TEST** button four times, then press and hold for five seconds.
2. Release the button when all LEDs flash red.



## Zūm® Wired J-Box Load Controller with Link Communication

### Remove a Missing Device from a Zūm Wired Room

To remove a missing device from a Zūm Wired room:

1. Identify the primary load controller.  
The LINK LED on the primary load controller consistently flashes for 0.5 seconds on and 0.5 seconds off.
2. Perform a factory reset on the load controller.  
Refer to [Perform a Factory Reset on a Load Controller](#).
3. Reassign the load controller as the primary controller.  
Refer to [Assign a Load Controller as Primary or Secondary](#).

**NOTE:** Performing a factory reset on a primary load controller erases all previous room logic to the default settings.



### Zūm Wired Setup

Once all of the devices are installed in the space and using the latest firmware, use the Zūm app to modify default room behavior. Expedite commissioning by copying a room configuration and sending it to a room with identical devices. Save a room configuration template and share it via email, or other methods available on the device. A template can be deployed to any identical room via the Zūm app or the ZUM-HUB4.

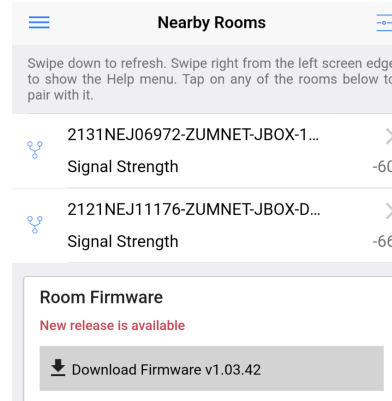
**NOTE:** The ZUMLINK-KP Bluetooth® connection is required to configure a Zūm wired space with the Zūm app.

### Connect to the Zūm App

Download the Zūm app from the [Google Play™](#) online store or the [Apple® App Store®](#) online store.

To use the Zūm app:

1. Enable Bluetooth wireless connection on your device to communicate with the Zūm space.
2. Launch the Zūm app and grant the permissions the app requests. The Zūm app displays a list of available spaces.



3. If new firmware is detected, update the firmware. Refer to [Update Firmware for a Zūm Space](#).
4. Select the desired space.
5. When prompted, enter the PIN. The Zūm app main screen opens.

#### NOTES:

- For Primary load controllers running firmware 3.6.18 and higher, the default PIN is 246800. For firmware lower than 3.6.18, the default PIN is 2468.
- To change the PIN, navigate to the Room Settings. When changing the PIN, the previous PIN is required.

## Zūm® Wired J-Box Load Controller with Link Communication

- The first failed log-in attempt locks the user out of the Zūm space. With subsequent failed attempts, the lockout duration increases up to 60 minutes.
- The lockout duration resets when the correct PIN is entered, the Primary load controller reboots, or when the PIN is changed from the ZUM-HUB4 Web-Interface.

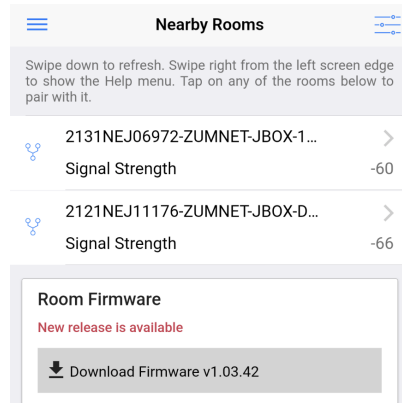
### Update Firmware with the Zūm App

Follow the required work flow to update device firmware for a Zūm space. Each Zūm space must be updated separately.

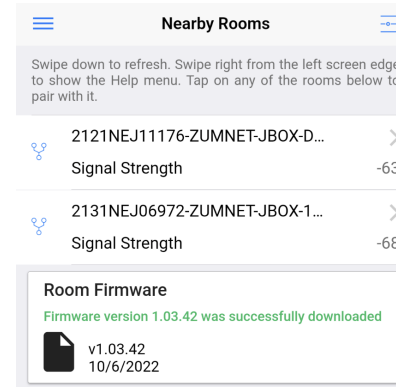
- [Load the Latest Firmware to the App](#)
- [Update Firmware for a Zūm Space](#)

### Load the Latest Firmware to the App

If new firmware is detected when connecting to the Zūm app, the **Room Firmware** window appears on the **Nearby Rooms** screen.



Tap **Download Firmware** to load the firmware to the app. The **Room Firmware** window message changes when the firmware is successfully downloaded. The Zūm app is now ready to connect to the Zūm space and start updating outdated devices.



## Zūm® Wired J-Box Load Controller with Link Communication

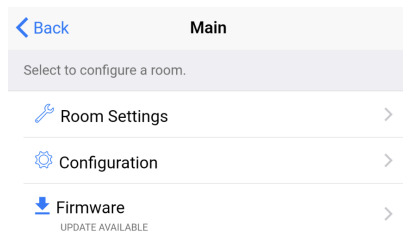
### Update Firmware for a Zūm Space

**WARNING:** Interrupting the firmware update can cause the update to fail. To avoid interrupting the firmware update, follow these best practices:

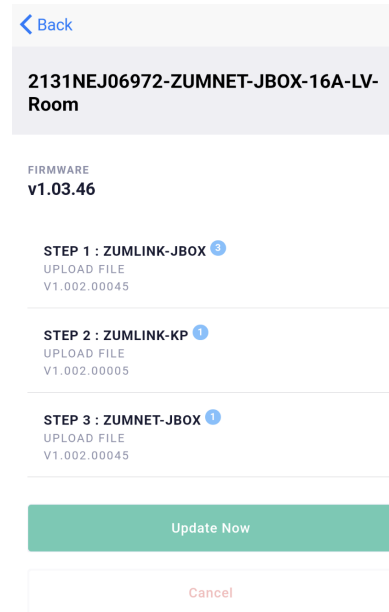
- Place the mobile device in Do Not Disturb Mode.
- Do not minimize or place the Zūm app in the background.
- Do not lock the mobile device.

To update device firmware in a Zūm space.

1. Choose the desired Zūm space to access the **Main** screen and tap **Firmware**.



2. Tap **Update Now** to initiate the firmware update for STEP 1. Devices are grouped based on the device type.



**NOTE:** The number next to the device type indicates the number of devices of that type that need to be updated in that Zūm space.

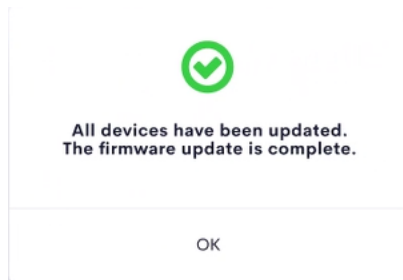
## Zūm® Wired J-Box Load Controller with Link Communication

- When the **Update Firmware** confirmation displays, select **Yes** to continue or **No** to cancel and return to **Firmware**. The confirmation also estimates the amount of time it will take to update the room based on the number of devices.



**NOTE:** The Zūm space is inaccessible via Bluetooth until the firmware update process is complete.

- When all of the devices are updated in a Zūm space, a notification displays stating the update is complete. Click **OK**, and repeat the process for every Zūm space listed in **Nearby Rooms**.



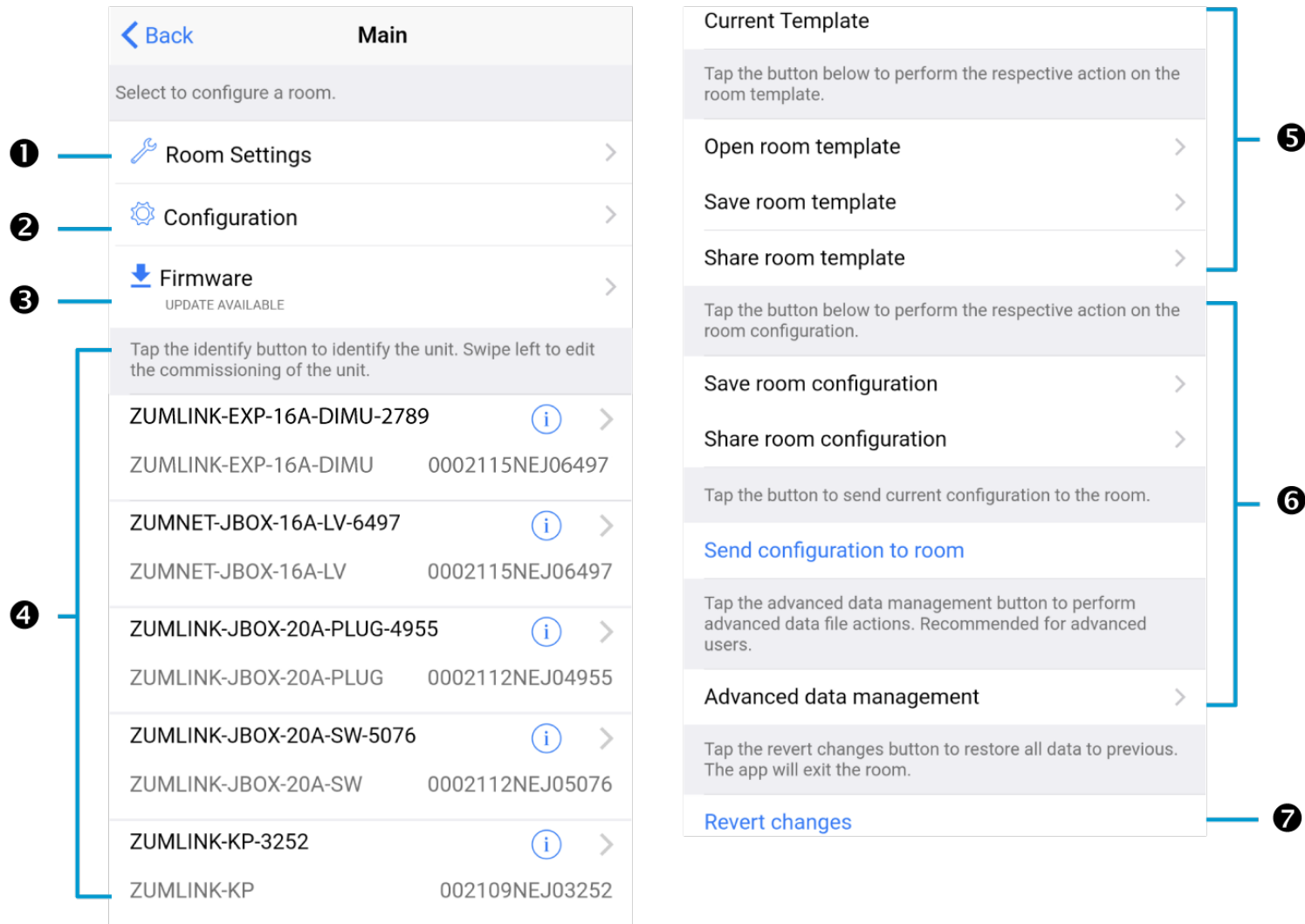
- If a device fails to update, a notification opens stating that some of the devices were not updated. Click **OK**.

The notification closes and displays the **Nearby Rooms** screen. To restart the firmware update, select the room and repeat the procedure from step 1 until all of the devices have been successfully updated.

## Zūm® Wired J-Box Load Controller with Link Communication

### Zūm App Main Screen

From the **Nearby Rooms** screen, tap the desired room to open the **Main** screen. The following sections describe the actions available for each area of the **Main** screen.



## Zūm® Wired J-Box Load Controller with Link Communication

**NOTE:** The numbers below correspond with the numbers in the **Main** screen diagram.

1. Room Settings: Edit the Room Name, PIN, Floor ID, Zone ID, and Network information.
2. Configuration: Edit the room logic to view the current state of the room.
  - Occupancy Sensors: View details for the connected sensor(s) or edit the sensor name.
  - Photo Sensors: View details for the connected sensor(s) or edit the sensor name.
  - Load Controllers: Identify and view details for the connected load controller(s).
    - ZUMLINK-JBOX-16A-LV and ZUMNET-JBOX-16A-LV load controllers:
      - View Current Scene, Daylighting status, and Output Level.
      - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
      - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
      - View Dimming Values
      - Edit the Dimming Curve Configuration or Dimmer Scenes Configuration.
    - ZUMLINK-JBOX-20A-PLUG load controller:
      - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
      - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
    - ZUMLINK-JBOX-20A-SW load controller:
      - Closed: Click the toggle to turn the load on or off.
      - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
      - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
      - Scenes: Allow keypad access to the scene by selecting or deselecting the checkbox. Determine the state of the load when the scene is recalled by clicking the toggle on or off.


## Zūm® Wired J-Box Load Controller with Link Communication

- ZUMLINK-EXP-16A-DIMU load controller:
    - View Current Scene, Daylighting status, and Output Level.
    - Override: The state of the load when Override is recalled. Click the toggle to turn the load on or off during Override.
    - Assign the occupancy mode (Occupancy menu), vacancy mode (Vacancy menu), vicinity mode (Vicinity menu), and daylight harvesting (Photo menu) to specific load controllers.
    - View Dimming Values.
    - Edit the Dimmer Scenes Configuration.
  - Scenes: View and edit room scenes: Scene 1 - Scene 16. When editing the scene, tap the Identify icon (i) to identify the load controller. The load controller emits a sound and flashes the Link LED. The connected loads also flash.
  - Keypads: Identify and view details for the connected keypad(s). Edit the keypad name and assign the button layout.
    - Adjust the Double Tap Speed: Set the amount of time between two button presses to qualify as a double tap.
    - Specify the Button Layout and click on a button to configure button actions.
      - Button action options:
        - None
        - Off: Assigned load controllers turn off.
        - On: Assigned loads turn on.
        - Raise: Assigned load controllers raise.
        - Toggle: Switches load controllers between ON and OFF states
        - Lower: Assigned load controllers lower.
        - Recall Scene 1 - Scene 16: Assigned load controllers recall the behavior set for the specified scene.
        - Export to Hub: Name and send information to ZUM-HUB4 for macro actions.
  - Load Shedding: Set the maximum levels for load shedding.
  - Load/Sensor Groups: Create groups within the room.
  - DALI Controllers: Address drivers, create DALI groups, assign drivers, and identify drivers.
  - Current Scene: Displays the current room scene.
  - Occupancy Status: Displays occupied or vacant. If any area of the room is occupied, then the status is Occupied. When all areas of the room are vacant, the status is Vacant.
3. Firmware: To update firmware, refer to [Update Firmware with the Zūm App](#).
  4. Discovered Room Devices: Identify a device and edit the commissioning settings

## Zūm® Wired J-Box Load Controller with Link Communication

Tap the identify button to identify the unit. Swipe left to edit the commissioning of the unit.

ZUMNET-JBOX-16A-LV-6497	 >
ZUMNET-JBOX-16A-LV	0002115NEJ06497
ZUMLINK-JBOX-20A-PLUG-4955	 >
ZUMLINK-JBOX-20A-PLUG	0002112NEJ04955
ZUMLINK-JBOX-20A-SW-5076	 >
ZUMLINK-JBOX-20A-SW	0002112NEJ05076
ZUMLINK-KP-3252	 >
ZUMLINK-KP	002109NEJ03252

- Tap the Identify icon  to identify a device. A load controller emits a sound and the Link LED flashes. The connected loads also flash. A keypad flashes its LED.
- Tap the device to edit or review the device details: Edit Name. Review the Model, Serial Number, Status, and edit the device settings.

5. Current Template Settings: Choose Open room template, Save room template, or Share room template.

### Current Template

Tap the buttons below to perform actions with the room template.

Open room template	>
Save room template	>
Share room template	>

6. Configuration Data:

- Save room configuration: Save the room configuration data in the space.
- Share room configuration: Share the room configuration data in the space.
- Send configuration to room: Send room logic changes made in the app to the room.
- Advanced data management: Review the Map, Logic, and Settings of the data currently loaded. Load, save or share new Map, Logic, or Settings data.

Tap the button below to perform the respective action on the room configuration.

Save room configuration >

Share room configuration >

Tap the button to send current configuration to the room.

[Send configuration to room](#)

Tap the advanced data management button to perform advanced data file actions. Recommended for advanced users.


Advanced data management >

**NOTE:** Changes made in the app are not sent to the room until they are deployed using the Send configuration to room button.

7. Revert changes: Restore all non-deployed changes made since launching the app.

Tap the revert changes button to restore all data to previous. The app will exit the room.

[Revert changes](#)

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## Zūm® Wired J-Box Load Controller with Link Communication

### Calibrate Daylighting Settings for a Load Controller

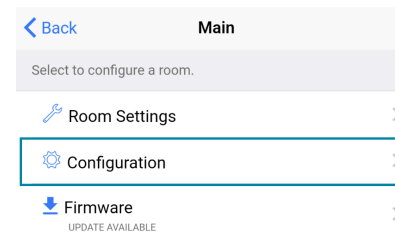
The photocell component of a Zūm Net load controller, Zūm Link load controller, or Zūm Link universal dimmer load controller detects the amount of ambient light in the room. When a space is calibrated for Daylighting and Scene 1 is called, the photocell will detect the ambient light levels and dim the lights accordingly.

Calibrating Daylighting requires four main steps:

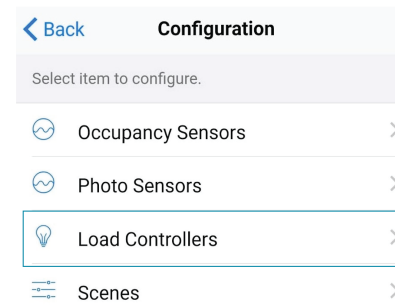
1. Assign the photocell component of a load controller to the load controller.
2. Send the new configuration to the space.
3. Adjust the light level in the space.
4. Calibrate Daylighting.

To calibrate the daylight settings:

1. Assign the photocell component to the load controller that will participate in Daylighting.
  - a. From the Main screen, click **Configuration**.



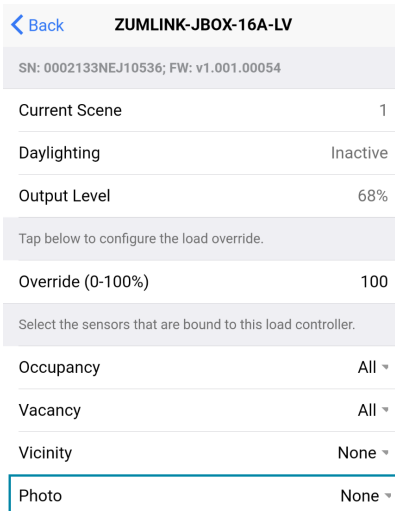
- b. Click **Load Controllers**.



- c. Click the desired load controller.

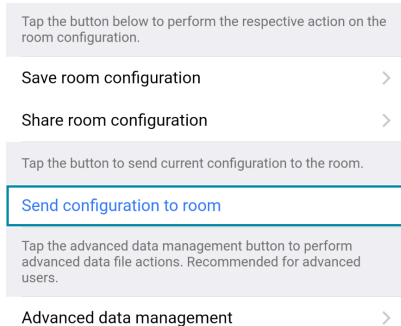
## Zūm® Wired J-Box Load Controller with Link Communication

d. For Photo, select a photocell from the drop-down menu.



2. Send the configuration to the room.

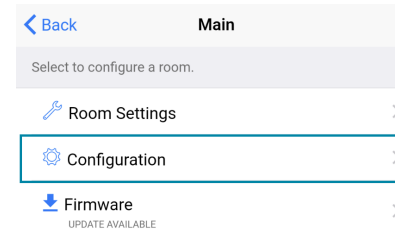
- a. Navigate back to the Main screen.
- b. Click **Send configuration to room**.



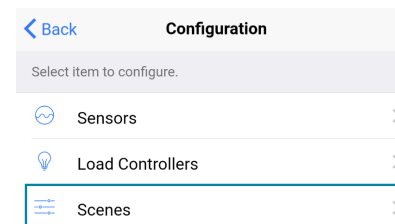
A confirmation window opens stating that the app will disconnect from the room. Click **OK** to continue or **Cancel** to close without sending the configuration. The Retrieving Data Map screen displays.

3. Recall Scene 1 and adjust load levels.

a. From the Main screen, click **Configuration**.

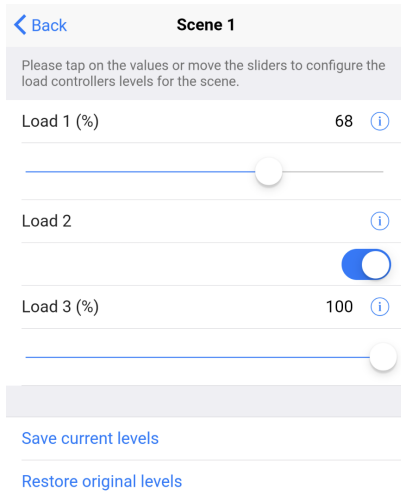


b. Click **Scenes**.



## Zūm® Wired J-Box Load Controller with Link Communication

- c. Select **Scene 1**. Daylighting is only available for Scene 1.

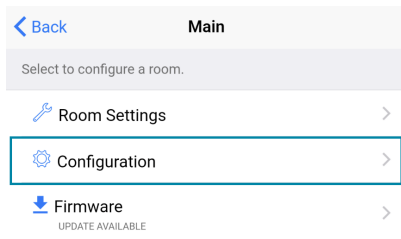


- d. Adjust the loads in the space to the appropriate level based on the amount of natural light.

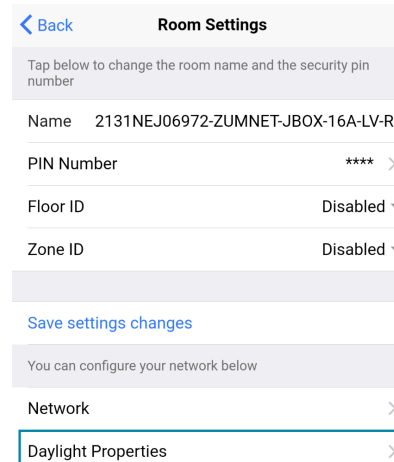
**NOTE:** DO NOT click Save current levels.

4. Calibrate Daylighting.

- a. Navigate back to the Main screen.  
b. Click **Room Settings**.



- c. Click **Daylight Properties**.



- d. Click **Calibrate Daylighting**.



During Daylight calibration, the lights in the space will turn full on, turn off, and then back on with the Daylighting settings. Whenever Scene 1 is recalled, the Daylighting settings are initiated.

## Additional Information

### Original Instructions

The U.S. English version of this document is the original instructions. All other languages are a translation of the original instructions.

Regulatory Model: M201933001 and M201933002

## Zūm® Wired J-Box Load Controller with Link Communication

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