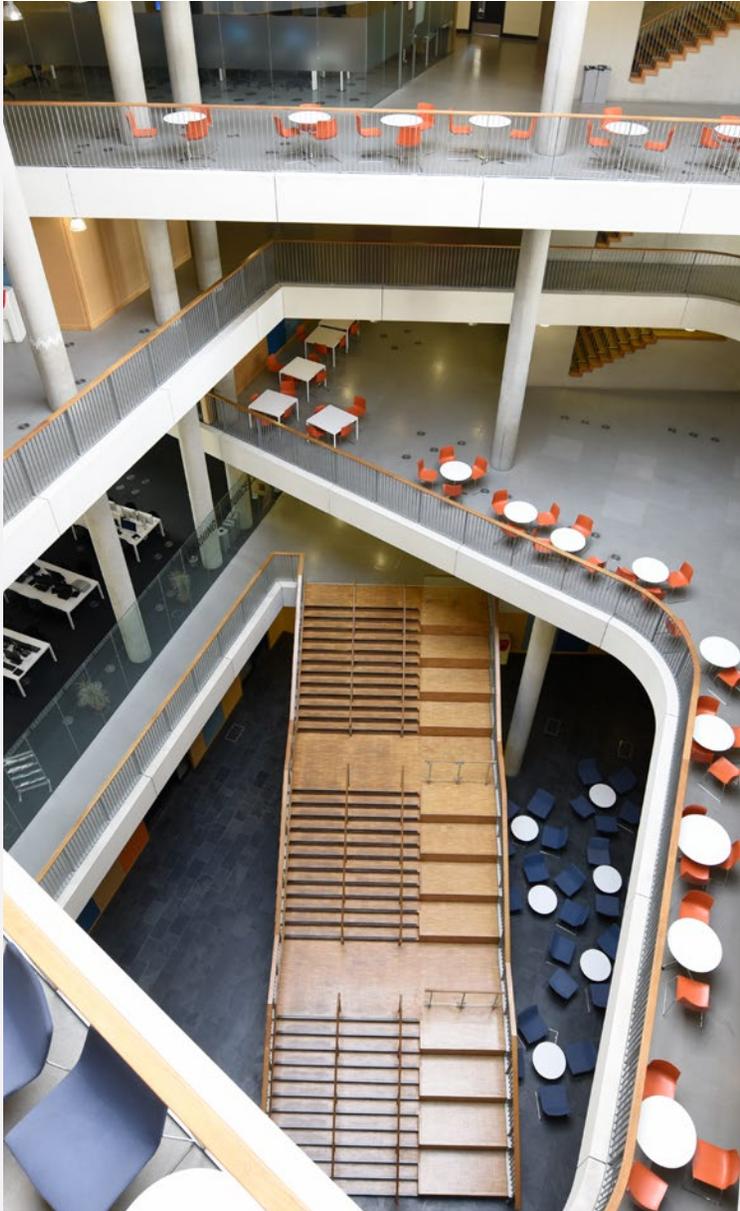

Commercial Lighting Control

Product Overview



Commercial Lighting Control

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Solutions For Every Space

Crestron simplifies commercial lighting control design, installation, and startup with products and systems designed to meet the intent of every space type while seamlessly scaling up to a complete, whole building solution when needed. The Crestron Zūm® platform's point-and-click software does not require cloud access or licensing fees, eliminating over-specification and unnecessary programming.

Our innovative Zūm platform offers simple design, installation, and control. With unparalleled scalability, Zūm allows for lighting control in as many – or as few – spaces as required. Each space is configured with the optimal control system, accessories, and nothing more. This dramatically speeds completion of each phase of a lighting control project and greatly improves efficiency.

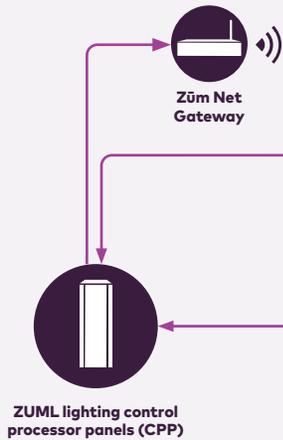
Easy Integration

All Crestron commercial lighting control systems can be networked together seamlessly and then integrated with Building Management Systems (BMS via BACnet/IP) or managed via cloud services. We offer both wired and wireless control solutions that integrate with products from nearly all lighting fixture manufacturers, allowing virtually unlimited configuration.



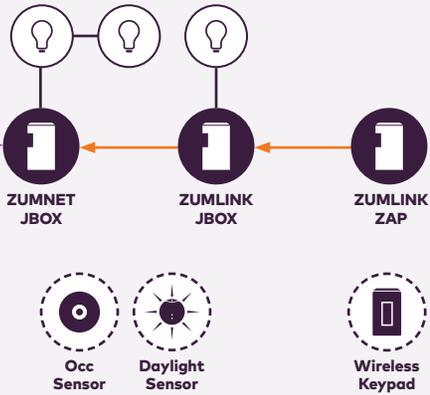
One Control Platform for Every Space & Application.

Centralized lighting management



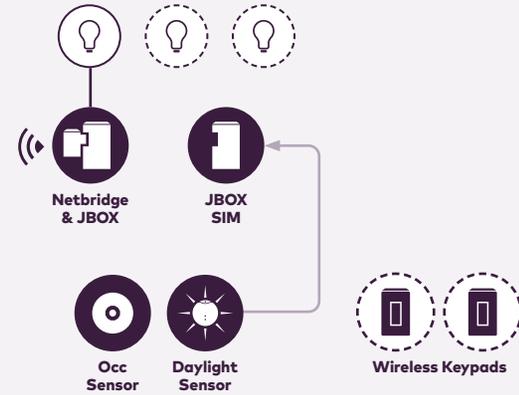
Hybrid room

Züm hybrid systems



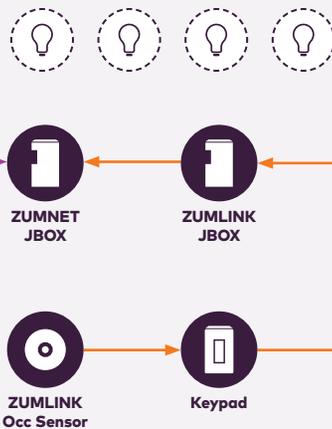
Classroom

Züm wireless control



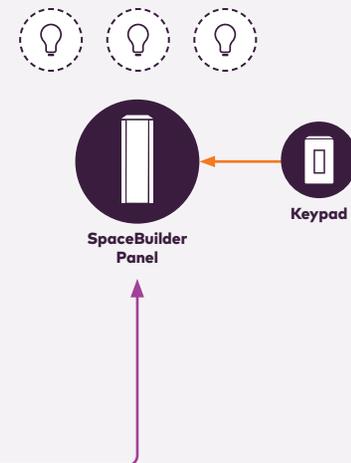
Cafetorium

Züm wired control



Site lighting

Relay & Dimming Panels



Zūm Wired solutions

Zūm Wired systems offer the full Power "of" Ethernet to implement a powerful and scalable Cat5e system architecture that's easy to design and install. Zūm Wired systems can be networked or stand alone, depending on local code requirements.

Design your space around the fixture needs, control types and user interfaces. Use a network-level ZUMNET controller to allow the space to use a high-speed Ethernet infrastructure for control and data.

Flexibility is the name of the game with Zūm Wired. Mix in wireless keypads and sensors to meet special project conditions, or add a Zūm Ethernet switch for additional sensor data collection and touch panel connectivity.



Zūm Wired Load Controllers

Zūm Wired J-Box zone and room controllers

Using the Power of Ethernet, Zum delivers high performance and reliability for installations of up to 1,000 rooms, with the benefit of an IoT backbone for future system expansion. Traditional lighting control solutions use RS485 instead of Ethernet to manage the system. Zūm Wired is the first distributed lighting control platform in the industry to use the full bandwidth of Ethernet for system management.

Junction box mounted control

ZUMNET Ethernet connectivity with pass-through switch

ZUMLINK CAT5 connectivity for room control and expansion

Universal 120V-277V input

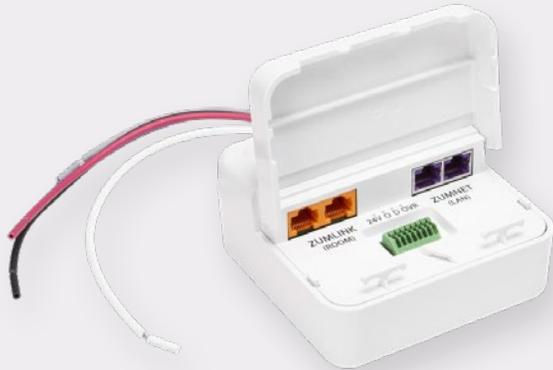
Plenum rated enclosure

Arcless switching for 1 million cycle relay lifetime

Built in I/O ports for sensors

Energy Monitoring technology

Built-in emergency override



- ① **ZUMNET-JBOX-16A-LV**
16A 0-10 Volt Dimming, net level control
- ② **ZUMNET-JBOX-DALI**
DALI interface, net level control

Zūm Wired Load Controllers



Zūm Wired J-Box zone and room controllers

ZUMLINK wired controls provide multi-zone expansion when connected to a ZUMNET wired load controller. ZUMLINK controllers can also be used in stand alone installations when networking is not required.

Junction box mounted control

ZUMLINK CAT5 connectivity for room control and expansion

Universal 120V-277V input

Plenum rated enclosure

Arcless switching for 1 million cycle relay lifetime

Built-in I/O ports for sensors

Built-in Emergency override

Energy Monitoring technology

- ① **ZUMLINK-JBOX-16A-LV**
16A 0-10 Volt dimming, link level control
- ② **ZUMLINK-JBOX-20A-SW**
20A switching, link level control
- ③ **ZUMLINK-JBOX-20A-PLUG**
20A plug load, link level control

Zūm Wired User Interface



Zūm Wired keypads

ZUMLINK wired keypads provide dynamic control of individual spaces. The standard rocker provides basic load control, while the optional 2, 4, 6, and 8-button trees can be added in the field for enhanced functionality and scene recall.

Standard wall box installation

Trimmed with gangable decorator style faceplates (not included)

Pad-printed labels or custom engraving options

Connected via ZUMLINK CAT5e cable

LED feedback

Built-in Bluetooth Radio for system startup and control

Configurable via Zūm app, ZUM-HUB4 software, or custom program

White, almond, black, gray and red

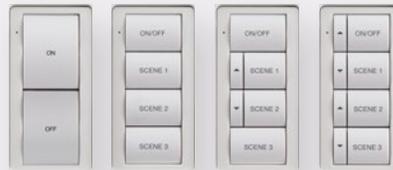
Zūm Wired User Interface

Zūm Button Tree Options



1 

- ① **ZUMLINK-KP-R-W**
Rocker-style keypad



2 3 4 5     

- ② **ZUMLINK-BTN2-W/B/G/A/R-ENGRAVED**
Blank 2-button engraveable tree
- ③ **ZUMLINK-BTNR-W/B/G/A/R-ENGRAVED**
Blank 4-button engraveable tree
- ④ **ZUMLINK-BTN6-W/B/G/A/R-ENGRAVED**
Blank 6-button engraveable tree
- ⑤ **ZUMLINK-BTN8-W/B/G/A/R-ENGRAVED**
Blank 8-button engraveable tree



6 7 8 9     

- ⑥ **ZUMLINK-BTN2-W/B/G/A/R**
Pad-printed 2-button tree
- ⑦ **ZUMLINK-BTN4-W/B/G/A/R**
Pad-printed 4-button tree
- ⑧ **ZUMLINK-BTN6-W/B/G/A/R**
Pad-printed 6-button tree
- ⑨ **ZUMLINK-BTN8-W/B/G/A/R**
Pad-printed 8-button tree

Zūm Wired Sensors



Zūm Wired Presence Sensors

Advanced Occupancy/Vacancy Sensors with Integrated Daylight sensor

ZUMLINK ceiling mount occupancy or vacancy sensor

PIR, US and DT technologies

600 SF to 4000 SF coverage

CAT5 ZUMLINK connection

Available with HVAC relay

Integrated Daylight sensor reduces the need for additional sensor in some spaces

① **ZUMLINK-DT-QUATTRO-DLS**

Dual technology sensor

② **ZUMLINK-DT-QUATTRO-DLS-RLY**

Dual technology sensor with HVAC relay

③ **ZUMLINK-US-QUATTRO-DLS**

Ultrasonic sensor

④ **ZUMLINK-US-QUATTRO-DLS-RLY**

Ultrasonic sensor with HVAC relay

① **ZUMLINK-IR-QUATTRO-DLS**

Passive infrared sensor

② **ZUMLINK-IR-QUATTRO-DLS-RLY**

Passive infrared sensor with HVAC relay

③ **ZUMLINK-IR-QUATTRO-HD-DLS**

4000SF, HD passive infrared sensor

④ **ZUMLINK-IR-QUATTRO-HD-DLS-RLY**

4000SF, HD passive infrared sensor with HVAC relay

① **ZUMLINK-HALLWAY-DLS**

Ultrasonic hallway sensor

② **ZUMLINK-HALLWAY-DLS-RLY**

Ultrasonic hallway sensor with HVAC relay

③ **ZUMLINK-ONEWAY-DLS**

Ultrasonic hallway sensor

④ **ZUMLINK-ONEWAY-DLS-RLY**

Ultrasonic hallway sensor with HVAC relay

Züm Wired Accessories

Züm Wired Cables

Color-coded Net and Link cables, for fast and simple installation, Plenum-rated, pre-terminated CAT5.



① **CBL-CAT5E-ZUMNET-P-25/50/100**
Züm Net CAT5 Ethernet cable

Preterminated CAT5e cable for Züm Net device communications between rooms in a Züm Wired system

RS485 Communications

Plenum-rated jacket

RJ-45 connectors with dust cap

Available in three lengths



② **CBL-CAT5E-ZUMLINK-P-0.5/3/6/12/25/50**
Züm Link CAT5 cable

Preterminated CAT5e cable for Züm Link device communications within a Züm Wired space

RS485 Communications

Plenum-rated jacket

RJ-45 connectors

Available in six lengths

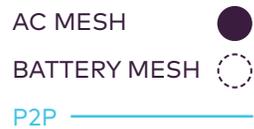
ZŪM WIRELESS LIGHTING SOLUTIONS



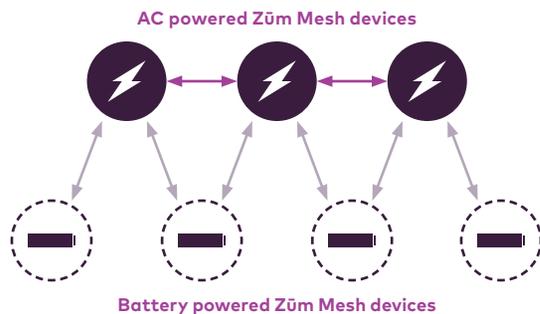
A complete Zūm wireless lighting control system

Start with a Space

In-room Zūm control devices intelligently "pair and play" with Zūm keypads, occupancy sensors, vacancy sensors, and daylight sensors over Zūm Mesh, a reliable, peer-to-peer wireless communications topology. A few simple taps on each device sets up the lighting controls – no programming required. All the devices you need for energy efficient lighting control are available in the Zūm Mesh lineup.

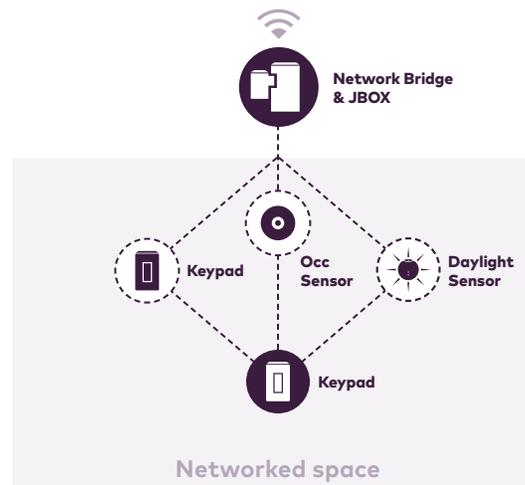


But how do all the Zūm Mesh devices connect?



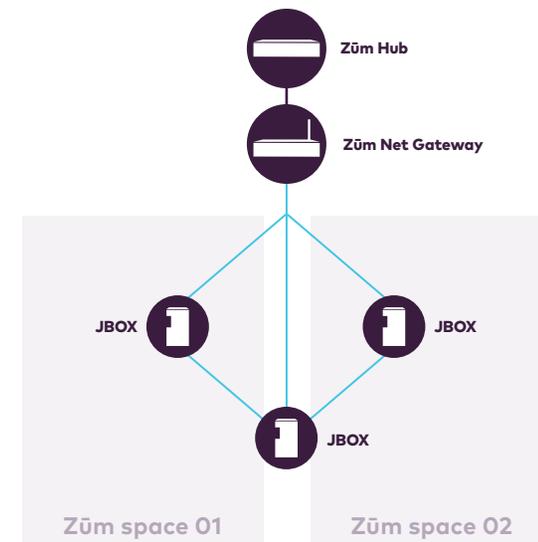
Networking is a Snap

Each Zūm space can then be networked with the addition of a Zūm Network Bridge (ZUMMESH-NETBRIDGE), which allows Zūm wireless spaces to talk back to the ZUM-HUB4 via a gateway. The Network Bridge connects to a setup app for configuring and control of all the Zūm devices in the room from your mobile device. Zūm multi-room networking devices expand the system from a single room or a series of single rooms to an enterprise-wide lighting control system via Zūm Net communications.



Manage Multiple Zūm Spaces

Building-wide lighting control is just as easy as in-room lighting control. With a Zūm Network Bridge installed in every room, all you need is a ZUM-HUB4 and a ZUMNET-GATEWAY to tie all of your rooms together. The ZUM-HUB4 provides the control and the Zūm Net Gateway provides wireless communications to centrally manage, monitor, and control every Zūm space via a Zūm Hub.



Zūm Wireless Load Controls

Zūm Wireless J-Box Load Controllers

Marked by intelligent “pair and play” room lighting control with essential features for energy efficiency, each ZUMMESH-JBOX model wirelessly connects to Zūm daylight sensors, occupancy sensors, vacancy sensors, and keypads over the Zūm Mesh network. A complete Zūm system with sensors and zone controllers provides intelligent lighting control based on the amount of natural light and the presence of people in a space.



Zūm J-Box and optional Zūm Netbridge shown



- ① **ZUMMESH-JBOX-5A-LV**
5A 0 – 10 Volt Dimming
- ② **ZUMMESH-JBOX-16A-LV**
16A 0 – 10 Volt Dimming
- ③ **ZUMMESH-JBOX-20A-SW**
20A Switching
- ④ **ZUMMESH-JBOX-20A-PLUG**
20A Plug Load
- ⑤ **ZUMMESH-JBOX-DALI** (see next spread)
DALI dimming

Zūm junction box-mounted lighting control

Wireless integration with Zūm keypads and occupancy, vacancy, and daylight sensors

4" x 4" junction box mounting via ½" conduit knockout

Universal 120-277 VAC input

Plenum-rated (Chicago plenum housing available as option)

Switched outputs utilize arc-less switching, ensuring 1 million cycle relay lifetime

Provides a plug-in port for connecting a Zūm Network Bridge

Zūm Wireless Load Controls

Zūm Wireless Universal Dimmer

Required to control large forward or reverse phase loads, such as chandeliers or track lighting in ballrooms or museums, or decorative lamps in large hotel foyers.



ZUMMESH-EXP-16A-DIMU
Wireless Universal Dimmer

Wireless integration with Zūm keypads and occupancy, vacancy, and daylight sensors

High-power universal phase dimming control module

Universal 120V-277 VAC

Full 16 Amp dimming

Plenum rated enclosure

Built-in Emergency override

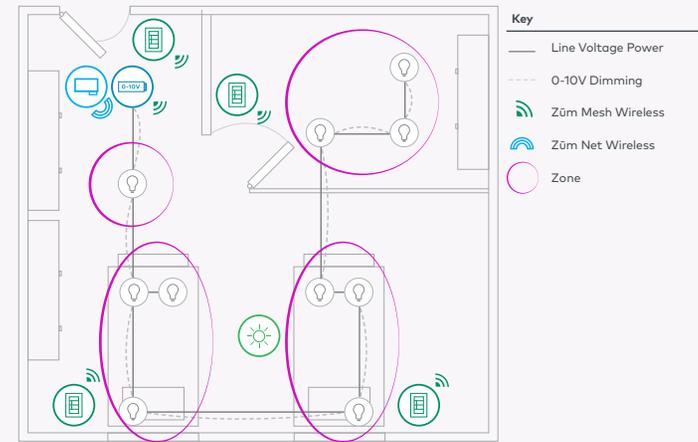
Zūm Wireless Load Controls



ZUMMESH-JBOX-DALI
DALI dimming

Zūm Mesh DALI

Single-loop DALI® controller capable of controlling up to 64 DALI compatible drivers. The ZUMMESH-JBOX-DALI communicates with other Zūm wireless devices such as keypads and occupancy sensors. Zūm Mesh wireless technology affords easy “pair and play” integration as part of a complete Zūm commercial lighting system. Energy-saving options are available to enable daylighting, occupancy or vacancy sensing, HVAC system integration, and centralized monitoring and management.



Zūm J-Box mount device

Single DALI loop (64) DALI drivers per J-Box Controller

Up to 15 groups (zones)

Zūm Mesh wireless network communication

Docking port for Network Bridge

Interface with SolarSync™ sensor

Program for Zūm app, iOS® and Android™ operating system devices

DALI 2 protocol

Zūm Wireless Load Controls

Zūm Wireless Wall Box Load Controllers

Zūm wireless wall-box zone controllers include a 5 Amp 0-10V, ELV and MLV dimmers, and a 5 Amp switch. Available in five colors and configured with a “pair and play” rocker, the Wall-Box Zone Controllers are versatile and easy-to-use additions to the Zūm commercial lighting system. Powered via line voltage AC, their streamlined design and out-of-the-box functionality is advantageous in new or retrofit installations.



- ① **ZUMMESH-5A-SW-W/B/G/A/R-S**
5A Switching
- ② **ZUMMESH-5A-LV-W/B/G/A/R-S**
5A 0 – 10 Volt Dimming
- ③ **ZUMMESH-DELV-W/B/G/A/R-S**
500W ELV Dimming
- ④ **ZUMMESH-DIM-W/B/G/A/R-S**
1200W FWD Phase Dimming

“Pair and play” functionality with Zūm occupancy, vacancy, and daylight sensors

Lighting control via a rocker switch

Available in white, black, gray, almond, red colors

Flying lead connectors for easy installation

Standard wall-box installation, trimmed with gangable decorator-style faceplates*

Universal 120-277 VAC inputs

*Sold separately

Züm Wireless Keypads

Züm Battery Powered Wireless Keypads

Extremely slim battery-powered Züm wireless keypads offer flexible installation. Available in five designer colors and configured with either a rocker or in one of three “pair and play” button layouts, these keypads are powered by a battery and are slim enough to mount to a wall or glass surface without the need for a back box.



- ① **ZUMMESH-KP10ABATT-W/B/G/A/R-S**
Züm Rocker Switch
- ② **ZUMMESH-KP10BBATT-W/B/G/A/R-S**
Züm 4-Button Keypad
- ③ **ZUMMESH-KP10CBATT-W/B/G/A/R-S**
Züm 6-Button Keypad
- ④ **ZUMMESH-KP10DBATT-W/B/G/A/R-S**
Züm 6-Button w/Sensor Control

Züm battery-powered wireless keypad

Pair-and-play functionality with a Züm Zone Controller

Available in white, black, gray, almond, red colors

Ultra-thin profile, — no thicker than a decorator-style faceplate*

Standard wall-box installation, trimmed with gangable decorator-style faceplates*

Optional glass back slider for on-glass installations

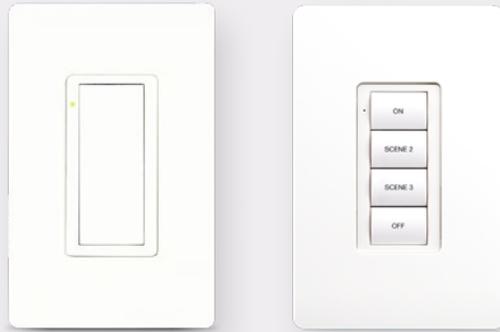
Powered via one CR2032 coin cell battery (included), up to 7-years of life

*Sold separately

Zūm Wireless Keypads

Line Voltage Wireless Keypads

AC-powered Zūm wireless wall-box keypads are available in five designer colors. Configured with either a rocker or a "pair and play" four-button layout, their streamlined design and out-of-the-box functionality is advantageous in new or retrofit installations.



- ① **ZUMMESH-KP10A-W/B/G/A/R-S**
Zūm Rocker AC-Powered Keypad
- ② **ZUMMESH-KP10B-W/B/G/A/R-S**
Zūm 4-Button AC-Powered Keypad

Zūm AC-powered wireless keypad

Pair-and-play functionality with a Zūm Zone Controller

Configurable with a rocker switch or a pre-programmed 4-button layout

Available in white, black, gray, almond, red colors

Flying lead connectors for easy installation

Standard wall-box installation, trimmed with gangable decorator-style faceplates*

Universal 120-277 VAC inputs

*Sold separately



Zūm Wireless Sensors



ZUMMESH-PIR-OCCUPANCY-BATT
Zūm Wireless Battery-Powered
Occupancy Sensor, 500 sq. ft.

Zūm Wireless Battery-Powered Occupancy Sensor

Low-profile, battery-powered occupancy sensor designed to detect when areas up to 500 sq. ft. are occupied and when they are vacant. The occupancy sensor utilizes a passive infrared (PIR) sensor to deliver a powerful and cost-effective solution for reducing energy consumption and enhancing the functionality of standalone and networked Zūm lighting systems.

Zūm ceiling-mount occupancy sensor

Passive infrared motion detection

360-degrees, 500 sq. ft. of coverage

Lithium-ion 9-Volt battery powered, 10 years of life

Automatic ON, Automatic OFF

Grace occupancy feature

Zūm Wireless Sensors



ZUMMESH-PIR-VACANCY-BATT
Zūm Wireless Battery-Powered
Vacancy Sensor, 500 sq. ft.

Zūm Wireless Battery-Powered Vacancy Sensor

Low-profile, battery-powered vacancy sensor designed to work with a Zūm lighting system to turn lights off when an area up to 500 sq. ft. is vacant. The vacancy sensor utilizes a passive infrared (PIR) sensor to deliver a powerful and cost-effective solution for reducing energy consumption and enhancing the functionality of standalone and networked Zūm lighting systems.

Zūm ceiling-mount vacancy sensor

Passive infrared motion detection

360-degrees, 500 sq. ft. of coverage

Lithium-ion 9-Volt battery powered, 10 years of life

Grace occupancy feature

Manual ON, Automatic OFF

Zūm Wireless Sensors



ZUMMESH-JBOX-SIM
Zūm J-Box Sensor Integration Module

Zūm J-Box Sensor Integration Module

Enables hard-wired, low-voltage occupancy and daylight sensors to be used with a Zūm commercial lighting system. Allows contact closure from other devices, in addition to sensors.



Supports occupancy or vacancy sensing, plus daylighting, and provides 24V Power (250mA)

Compatible with Crestron GLS-ODT-C-NS, GLS-OIR-C-NS occupancy sensors

Compatible with Crestron GLA-LDS-PC-0-10 open-loop daylight sensor

Compatible with STEINEL occupancy sensors and presence detectors and provides 24V Power (250mA)

Pair-and-play wireless integration with Zūm dimmers, switches, and load controllers

120V – 277V powered

Zūm Wireless Sensors



ZUMMESH-OL-PHOTOCELL-BATT
Zūm Wireless Battery-Powered
Daylight Sensor

Zūm Wireless Battery-Powered Daylight Sensor

Battery-powered, wireless, open-loop (dual loop calibration) daylight sensor that provides superior natural light sensing and indoor lighting control in daylight harvesting applications. An internal photocell for open-loop daylight sensing effectively cuts costs while providing exceptional daylight sensing in new construction or retrofit applications.

The dual-loop auto-calibration process discovers the optimal light settings in just a few minutes – one press of a button is all it takes to achieve reliable and energy efficient daylight harvesting in any Zūm space.

Zūm open-loop, battery-powered daylight sensor

Ceiling or surface mounting for both sidelight and toplight applications

Local button lets users commission and auto-calibrate the daylight harvesting system

10-year battery life via two Lithium-ion AAA batteries

Sleek, compact design

Zūm Wireless Sensors

Zūm Wireless Partition Sensor

Passes messages between 2–4 rooms that have Zūm Mesh devices when a partition is open. This allows for the two rooms to be treated as one for the purpose of occupancy sensors and keypads.



ZUMMESH-PART
Zūm Wireless Partition Sensor



Powered by 24V

Multiple Partition sensors may be used to combine up to four Zūm spaces

Mounts to single gang wallbox

Zūm Wireless Networking and Accessories



ZUMMESH-NETBRIDGE
Zūm Network Bridge



Zūm Network Bridge

Enables Zūm device setup from a mobile app and integrates a standalone Zūm lighting control space or room with the Zūm Hub for a centrally managed, enterprise-wide lighting control system. Turning Zūm single-room lighting controls into a smart system is a snap with the Zūm Network Bridge.

Converts standalone Zūm lighting control system for a single room into a centrally managed, networked system

Provides access to Zūm Setup App for room configuration, built-in Bluetooth® connectivity

Zūm Mesh communications technology for a complete networked Zūm wireless lighting control solution

Snaps on to Zūm J-Box Zone Controller, Zūm Network Bridge Power Supply, or Zūm J-Box SIM

Zūm Wireless Networking and Accessories



ZUMNET-GATEWAY
Zūm Net Gateway

Zūm Net Gateway

Two-way RF wireless gateway designed for use with Crestron Zūm wireless devices. A single gateway auto-acquires all Zūm Network Bridges within range, enabling an entire multi-room Zūm Net wireless communications network for commercial lighting control. The Zūm Gateway connects to the Zūm Hub to provide central monitoring, management, reporting, and control of lighting systems throughout the enterprise.

Built-in RF network diagnostics

Range of up to 250 feet (76.2 meters) to nearest Zūm Network Bridge

Surface or DIN rail mountable using bracket provided

Plenum-rated case

Up to 30 gateways can be connected to each Zūm Floor Hub

Up to 50 Zūm Netbridges can be connected to a single Gateway

PoE powered

Zūm Wireless Networking and Accessories



ZUMMESH-JBOX-PSU
Zūm J-Box Power Supply

Zūm J-Box Power Supply

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) or Zūm Contact Closure Output (ZUMMESH-CCO). 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.

Zūm junction box-mounted power supply for Zūm accessories, such as the Zūm

Network Bridge and the Zūm Contact Closure Output

Zūm Network Bridge integration for Zūm spaces controlled via Zūm dimmers or switches

Zūm Mesh peer-to-peer RF communications for easy integration into a complete standalone or networked Zūm wireless lighting control solution

Wireless integration with Zūm keypads, occupancy sensors, vacancy sensors, and daylight sensors

Zūm Wireless Networking and Accessories



ZUMMESH-CCO
Zūm Contact Closure Output

Zūm Contact Closure Output

Small module that snaps onto a ZUMMESH-JBOX (Zūm J-Box Load Controller) or ZUMMESH-JBOX-PSU (Zūm J-Box Accessory Power Supply). This enables integration with a HVAC system or other equipment via its low voltage SPDT form-C contact closure to a Zūm commercial room system. The CCO is controlled by the occupancy or vacancy sensors in the room. When the room is occupied, the relay engages. When the room is vacant, the relay disengages.

Adds a contact closure output

Low-voltage SPDT form-C relay activates and deactivates on signal from room occupancy sensor

Rated 1 Amp @ 30 volts AC

Enables integration with HVAC equipment to save energy

Attaches to Zūm J-Box Accessory Power Supply

Zūm Wireless Networking and Accessories

Zūm AV Bridge

Wireless control integration module designed for use with wireless keypads, as well as occupancy and vacancy sensors. A simple, brand-agnostic command set allows for integration with both Crestron and third-party systems via RS-232 or USB. The AV Bridge pairs wirelessly with keypads and sensors in a room without requiring a separate wireless gateway.



ZUMMESH-AVBRIDGE Zūm AV Bridge

Wireless "pair and play" in-space with Zūm Mesh lighting controls

Bi-directional RS-232 or USB communication AV system

Mounts inconspicuously at the AV equipment location

Powered via 24Vdc or USB

Zūm Wireless Networking and Accessories

Chicago Plenum Enclosure for Zūm Wireless J-Box Devices

An air-tight, metal enclosure designed to mount a Zūm J-Box device in a plenum space. The ZUMMESH-JBOX-FMKT-CP maintains compliance with the City of Chicago Environmental Air (CCEA) requirements.



ZUMMESH-JBOX-FMKT-CP
Chicago Plenum Enclosure for Zūm Wireless
J-Box Devices



16 gauge, zinc-coated steel

Compliant with the City of Chicago Environmental Air (CCEA) requirements for mounting in a plenum space

Metal partition to separate Class 1 and Class 2 wiring and mount a Zūm Wireless J-Box device

Secure to a stud, hanger, or conduit in the plenum with the opening in the room

(7) 1/2 in. and (8) 3/4 in. push-back style, air-tight knockouts

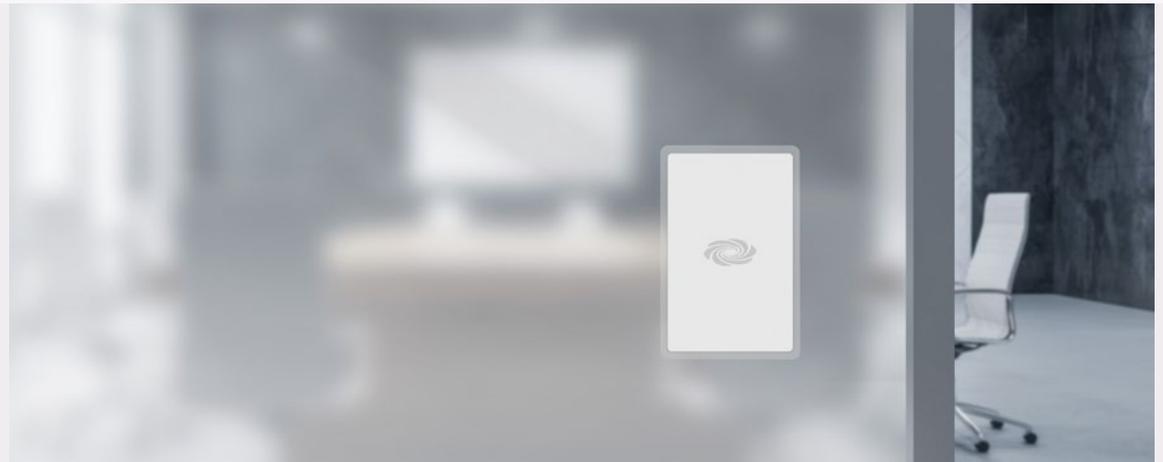
Dimples placed on the bottom of the box for easy drilling

White plastic cover to conceal the Zūm J-Box device

Zūm Wireless Networking and Accessories

Adhesive Label for Glass Mounted Zūm Wireless Keypads

Conceals the back of a Zūm Wireless Keypad (ZUMMESH KP BATT) when it is mounted to a transparent glass surface.



ZUMMESH-KP-BATT-LM
Adhesive Label

Elegantly conceals the rear of a ZUMMESH KP BATT when it is mounted to transparent glass
Easily adheres to clean, smooth glass





Crestron **SPACEBUILDER**[®]

Crestron SpaceBuilder systems are the fastest way to design, install, and start up commercial lighting controls for any size building or system. Space-based packaging allows for quick project material sorting, and optional pre-paired option from the factory saves time in the field. SpaceBuilder online tools help you quickly and easily find the system you need and then design the system according to the distinct needs of your space.

SpaceBuilder Distributed Systems

GLZUM SpaceBuilder System

An ideal wireless lighting control system for any space, new construction, or retrofit. It provides dimming, switching, motion sensing, keypads, and plug load control. Each GLZUM space can support up to 32 Zūm devices.



GLZUM SpaceBuilder System SpaceBuilder Distributed System

32 Zūm mesh devices

Configured through the Zūm app

RF pairing in factory (optional)

Forward- and reverse-phase, 0-10V dimming/switching, plug load

Battery or high voltage operated keypads

Up to 8 wireless occupancy/vacancy sensors

Dual tech 24V motion sensors supported through ZUMMESH-SIM

1 dual loop daylight sensors (each zone of lighting has a unique daylighting profile)

RS-232 / USB AV integration

Dry contact closure output to share occupancy status with HVAC system

SpaceBuilder Distributed Systems

GLIPACSW8 SpaceBuilder System

Perfect for spaces such as retail stores, small offices, parking garages, and service stations that typically require only ON/OFF switching.



GLIPACSW8 SpaceBuilder System SpaceBuilder Distributed System

8 to 40 zones of switching; built-in time clock

Standalone or networkable configurations

Up to 10 keypads; up to 10 vacancy and 10 daylight sensors

Class 1 NEMA enclosure for remote location

Works with Zūm systems



SpaceBuilder Panel

SpaceBuilder Panel is a Crestron process that simplifies panel design, production, and delivery for jobs that still require large panel-based systems. Removing the complexity of custom design, complex build sheets, and inconsistent solutions, SpaceBuilder Panel allows a designer to quickly and effectively design a system using simple, dynamic spec sheets, which also serve as factory production build sheets.

SpaceBuilder Panel also provides flexibility by offering both 120V and 277V options along with MLO and feed-thru cabinets. From a simple restaurant to a large stadium project, the simple configurable spec sheets can work for any application.

SpaceBuilder Panel also has the option of an internal control system for a smaller installation, or can be linked via Cresnet® or Ethernet communications from a Zūm Hub for master time clock, BMS, and demand response integration.

DALI and DMX are also covered as part of the SpaceBuilder Panel solution with the SpaceBuilder DIN solution, allowing a designer to build systems from 2 DALI network loops up to 32 DALI network loops, or DMX ecosystems.

SpaceBuilder Panel: Simple. Fast. Easy.

SpaceBuilder Feed-Thru Systems

GLCAEN-FT SpaceBuilder System

Ideal for spaces where distributed or wireless controls aren't appropriate, CAEN panel systems were designed for applications that require a higher quantity of smaller zones, allowing more efficient circuiting with dimming modules that offer (4) control zones per (1) circuit.



GLCAEN-FT SpaceBuilder System
SpaceBuilder Feed-Thru System



Control up to 56 lighting zones with astronomical time-clock

Configurable emergency/life safety zones

2-wire forward phase dimming

2-wire universal phase

4-wire 0-10 V dimming

Multizone switching

Optional internal control processor or ethernet uplink

120V or 277V versions available

Works with Züm systems and Züm wired interfaces

SpaceBuilder Feed-Thru Systems

GLEX-FT SpaceBuilder System

Great for spaces that don't have accessible ceilings, such as auditoriums, warehouses, sports venues, and large parking structures. With 16 Amp zones available, the GLEX-FT solution supports very large spaces.



GLEX-FT SpaceBuilder System
SpaceBuilder Feed-Thru System



Control up to 42 lighting zones; multizone switching with astronomical time-clock

Configurable emergency/life safety zones

2-wire forward phase dimming, 0 – 10V dimming, switching

100K/1,000K cycle switching

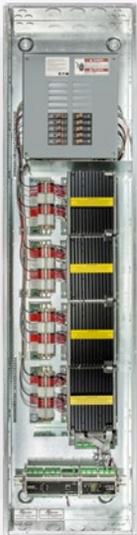
Works with Züm systems and Züm wired interfaces

120 or 277V versions available

SpaceBuilder Main Lug Panels

GLCAEN-MLO SpaceBuilder System

An MLO cabinet with flexible load types. It's great for spaces that don't have accessible ceilings such as auditoriums, hotels, sports venues, and large parking structures.



GLCAEN-MLO SpaceBuilder System
SpaceBuilder Main Lug Panel

Control up to 32 lighting zones; multizone switching

Configurable emergency/life safety zones

2-wire forward phase dimming

2-wire universal phase or 4-wire 0-10 V dimming

20 A, GFCI, or AFCI breakers - 10 kAIC rated, Eaton CHF series, 120V

Optional internal control processor

Works with Züm systems and Züm wired interfaces

SpaceBuilder Main Lug Panels

GLEP-MLO SpaceBuilder System

An MLO cabinet with space for up to 42 zones. It's great for spaces that don't have accessible ceilings such as auditoriums, warehouses, sports venues, and large parking structures.



GLEP-MLO SpaceBuilder System
SpaceBuilder Main Lug Panel



Control up to 42 lighting zones; multizone switching

Configurable emergency/life safety zones

2-wire forward phase dimming, 100K/1,000K cycle switching

3-phase 120 or 277 VAC

Optional processor

Works with Zūm systems and Zūm wired interfaces

SpaceBuilder DIN Rail System

GLDIN SpaceBuilder System

Great for digital lighting projects using DALI or DMX protocols. Also useful for Ethernet and Cresnet distribution.



GLDIN SpaceBuilder System
SpaceBuilder DIN Rail System



DIN-EN Series enclosures provide 2, 3, 6, or 9 DIN rails

Astronomical time-clock lighting control with built-in processor option

DIN-DALI-2 provides from 2 to 32 loops.

DMX for full show-control and RDM support using DIN-DMX-1UNIVERSE or DIN-DMX-2UNIVERSE

Works with Züm systems and Züm wired interfaces



Sensors

Crestron offers a variety of Sensors outside of the Züm platform that can be used with both Züm systems as well as spacebuilder and custom solutions.

Sensors



GLS-LCCT

Crestron SolarSync Outdoor Daylight and Color Temperature Sensor

Crestron SolarSync™ Sensor

Measures true color temperature and intensity of natural sunlight or any other lighting source.

Enables indoor lighting to be regulated to match the actual natural sunlight outdoors.

IP67 rated for outdoor rooftop installation.

Also suitable for indoor applications.

Sensors

Dual-Loop Photosensor

Dual photosensor for open- and closed-loop applications. Measures the ambient light level from all light sources source. Versatile flush or surface ceiling mounting.



GLA-LDL-PC-0-10
Dual-Loop Photosensor (White)

GLA-LDL-PC-0-10-B
Dual-Loop Photosensor (Black)

Ceiling-mount photosensor, used in both open-loop and closed-loop applications

Measures the ambient light level from all light sources

60° cone of coverage for open-loop and closed loop applications

Closed-loop light sensitivity ranging from 3-300 fc

Open-loop light sensitivity with three ranges: 3-300 fc, 30-3000 fc, and 60-6000 fc

0 to 10 VDC analog control output

Versatile flush or surface mounting

Control system interface via Cresnet® network or analog input

Sensors

CN and NS Sensors

CN and NS sensors provide Cresnet® connectivity for direct connection to a Crestron control system for integrated control of lighting, climate control, and other devices in the room. Cresnet sensors can be converted to Zümlink sensors for use in a custom system.



- ① **GLS-ODT-C-CN**
Dual-Technology Occupancy Sensor with Cresnet, 2000 Sq. Ft.
- ② **GLS-PART-CN**
Cresnet Partition Sensor
- ③ **GLS-OIR-C-CN**
Passive Infrared Occupancy Sensor with Cresnet

- ④ **GLS-OIRLCL-C-CN**
Ceiling Mount Passive Infrared Occupancy & Daylight Sensor, Cresnet
- ⑤ **GLS-ODT-C-NS**
Dual-Technology Ceiling Mount Occupancy Sensor
- ⑥ **GLS-OIR-C-NS**
Passive Infrared Ceiling Mount Occupancy Sensor



Crestron + Steinel

As part of our endeavour to deliver professional lighting and control solutions for the entire enterprise, Crestron is pleased to offer STEINEL PROFESSIONAL products, which are available for sale through authorized Crestron Commercial Lighting system integrators.

Based in Germany, STEINEL PROFESSIONAL has been manufacturing lighting controls for over 25 years. Their product offering includes a wide variety of controls and sensors for indoor and outdoor applications.

Presence Detectors

PIR Sensors

PIR (Passive Infrared) presence sensors deliver unsurpassed features, quality, and reliability to expand coverage of Crestron lighting control and automation system capabilities to hallways and high bays.



- ① **GLA-IR-QUATTRO-HD-COM1-24**
Single relay
- ② **GLA-IR-QUATTRO-HD-COM2-24**
Dual relays for lighting and HVAC

Low voltage (18-24 VDC/VAC)

26' x 26' Presence; 65' x 65' Tangential

4800 Switching zones



- ③ **GLA-IR-CM-COM1-24**
Single relay
- ④ **GLA-IR-CM-COM2-24**
Dual relays for lighting and HVAC

Low voltage (18-24 VDC/VAC) corner mount

22' Radial reach

520 Switching zones

Presence Detectors

Occupancy Sensors

Occupancy detectors for controlling lights in a variety of building spaces.



⑤ **GLA-IS-3180-24**
Single relay

⑥ **GLA-IS-3360-24**
Dual relays for lighting and HVAC

Low voltage (18-24 VDC/VAC) with 180 degree coverage

42' radial reach; 65' tangential

448 switching zones



⑦ **GLA-IS-D360-24**
Single relay

Low voltage (18-24 VDC/VAC) with 360 degree coverage

13' radial reach; 26' tangential

720 switching zones

Presence Detectors

Dual Tech Sensors

Dual Technology sensors combine the leading motion sensing technologies—PIR Passive Infrared Sensor and Ultrasonic – to detect the presence of signature of a person in a space.



- ① **GLA-DT-QUATTRO-COM1-24**
Single relay
- ② **GLA-DT-QUATTRO-COM2-24**
Dual relays for lighting and HVAC
- ③ **GLA-DT-QUATTRO-DIM-24**
1-10 volt dimming and daylighting

Low voltage (18-24 VDC/VAC)

20' x 20' presence; 32' x 32' max



- ④ **GLA-DT-CM-COM1-24**
Single relay
- ⑤ **GLA-DT-CM-DIM-24**
1-10 volt dimming and daylighting

Low voltage (18-24 VDC/VAC)

22' presence; 160 degree 82' max

Presence Detectors

US Sensors

Highly reliable and precise sensors that utilize state of the art ultrasonic signal processing to provide superior stable volumetric detection. They excel at detecting minor motion, and don't require an unobstructed line of sight.



① **GLA-US-HALLWAY-COM1-24**
Single relay

② **GLA-US-HALLWAY-COM2-24**
Dual relays for lighting and HVAC

Low voltage (18-24 VDC/VAC)

22' presence; 160 degree 82' max



③ **GLA-US-QUATTRO-COM1-24**
Single relay

④ **GLA-US-ONEWAY-COM1-24**
Single relay

Low voltage (18-24 VDC/VAC)

Omnidirectional detection, 20' x 20'
presence; 32' x 32' max

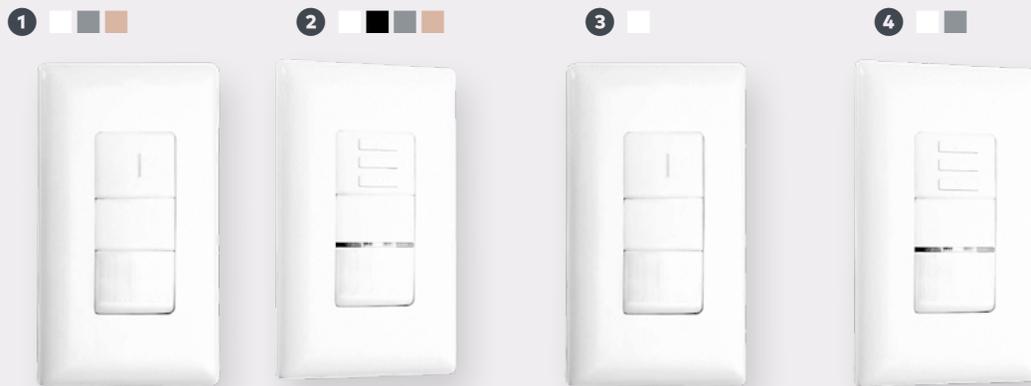
Low voltage (18-24 VDC/VAC)

Unidirectional detection, 6.5' x 33' max

Presence Detectors

In-Wall High-Voltage PIR Sensors

PIR sensors are used where the sensor will have a clear view of the occupants in the desired coverage area. The typical application is for small office, conference, storage closet and break rooms.



① **GLA-IR-WLS-1-W/GY/LA**
Single relay

② **GLA-IR-WLS-DIM-W/BK/GY/LA**
0-10 volt dimming

120/230/277 VAC, 50/60 Hz

180 degree coverage

Occupancy sensor, for rooms up to 18' x 15'

③ **GLA-IR-VS-1-W**
Single relay

④ **GLA-IR-VS-DIM-W/GY**
0-10 volt dimming

120/230/277 VAC, 50/60 Hz

180 degree coverage

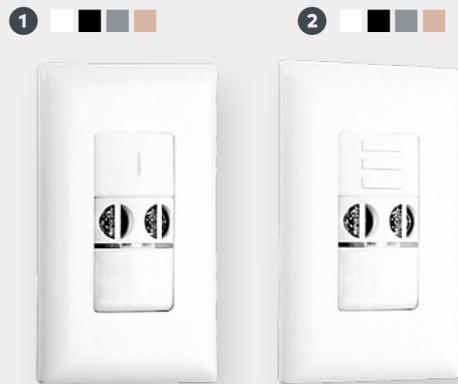
Vacancy sensor, for rooms up to 18' x 15'

Presence Detectors

In-Wall Line-Voltage Dual Tech Occupancy Sensors

A line voltage, single relay, Dual Technology (PIR & ultrasonic) wall switch occupancy sensor to control lighting in commercial spaces.

The combination of both technologies enhances occupancy detection in difficult applications.



- ① **GLA-DT-WLS-1-W/BK/GY/LA**
Single relay
- ② **GLA-DT-WLS-DIM-W/BK/GY/LA**
0-10 volt dimming

120/230/277 VAC, 50/60 Hz

180 degree coverage

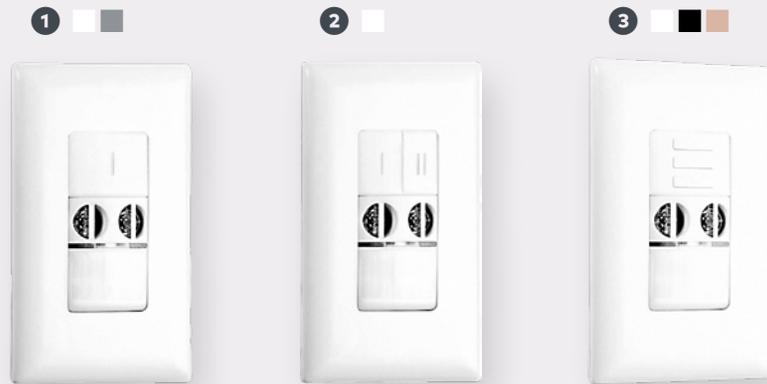
Occupancy sensor, for rooms up to 20' x 16'

Presence Detectors

In-Wall Line-Voltage Dual Tech Vacancy Sensors

A line voltage, single relay, Dual Technology (PIR & ultrasonic) wall switch vacancy sensor to control lighting in commercial spaces.

The combination of both technologies enhances vacancy detection in difficult applications.



- ① **GLA-DT-VS-1-W/GY**
Single relay
- ② **GLA-DT-VS-2-W**
Dual relays for bi-level load switching
- ③ **GLA-DT-VS-DIM-W/BK/LA**
0-10 volt dimming

120/230/277 VAC, 50/60 Hz

180 degree coverage

Vacancy sensor, for rooms up to 20' x 16'

High Voltage Standalone Sensors

High Bay Sensors

High bay occupancy sensors are engineered to save energy by using automatic control of high bay fixtures in high-ceiling spaces such as warehouses and distribution centers.



① **GLA-HBS-200**

② **GLA-HBS-200-WL**
IP65 for wet/damp locations

③ **GLA-HBS-200-347-480V**
347/480 VAC, 50/60 Hz

120/230/277 VAC, 50/60 Hz

Aisle way coverage with up to 100' linear detection

Up to 45' mounting height

④ **GLA-HBS-300**

⑤ **GLA-HBS-300-WL**
IP65 for wet/damp locations

⑥ **GLA-HBS-300-347-480V**
347/480 VAC, 50/60 Hz

120/230/277 VAC, 50/60 Hz

360 degrees of occupancy based control

Up to 45' mounting height

1416 switching zones

High Voltage Standalone Sensors

High Bay Sensors

The EM 1 Extender Module is used with STEINEL high bay occupancy sensors. It is recommended if the knockout at the end of the fixture is located greater than 1/2" from the bottom edge of the fixture.



GLA-EM-1
Steinel EM1 Extender Module

High Voltage Standalone Sensors

Power Packs

Provide power to Steinel low voltage occupancy sensors and other control devices.



① **GLA-TR-100**
Manual ON or Automatic ON

② **GLA-TR-100-A**
Automatic ON

③ **GLA-TR-100-M**
Manual ON

④ **GLA-TR-150**
Manual ON or Automatic ON

⑤ **GLA-TR-150-A**
Automatic ON

⑥ **GLA-TR-150-M**
Manual ON

⑦ **GLA-TR-200**
Super Duty Power Pack 200

⑧ **GLA-TR-250**
Super Duty Power Pack 250

120/230/277 VAC, 50/60 Hz

Provides up to 250mA of 24VDC low voltage output

120/230/277 VAC, 50/60 Hz

Built-in isolated relay for use with HVAC controls

Provides up to 250mA of 24VDC low voltage output

Zūm Wireless Networking and Accessories

Accessories

Lens cover options for high bay occupancy sensors.



- ① **GLA-LC-1**
Steinel LC1 Aisle Starter Lens Cover
- ② **GLA-LC-4**
Steinel LC4 Reduced Range Lens Cover
- ③ **GLA-LC-5**
Steinel LC5 180° Half Moon Lens Cover

Network System Management

By adding a processor or hub, Crestron lighting control systems can easily network spaces together. Networking allows for global control of the system from one or more interfaces giving the end user access to timeclock functions, load shedding or demand response, BMS integration, day pattern adjustments and more.

The ZUML-HUB4-PAK processor cabinet is used when networking Zūm Wired and Wireless systems. Zūm Wireless devices can be managed from the ZUML control panel when downstream from a ZUMNET-GATEWAY and ZUMMESH-NETBRIDGE. Zum Wired systems can be controlled from the ZUML control panel when downstream from a ZUMNET-JBOX device.

Users access a ZUM-HUB4 control processor (included with ZUML control panel assemblies) and connect via a web browser and, once connected, can check battery life of networked devices, set-up and adjust day patterns, recall scenes and rename spaces. The interface features both a calendar and tree view of the networked system for quick access, no matter the task.

If the system has traditionally wired Crestron components that are connected to the network via Cresnet or ethernet—or if custom programming is required for advanced sequences and integration outside of the ZUM-HUB4 software's out-of-the-box features—the ZUM-HUB4 can now be configured to run a custom program simultaneously alongside the Hub's built-in software.*

To network a hybrid system using Zūm wired and wireless components, the GLNET-ZUM-CN can be used to combine all space types together into a single processor panel. The ZUM-HUB inside the cabinet provides a single user interface for making changes or updating the system, viewing room status, device status and simple changes to the day pattern. Distribution panels are used to connect areas together when wiring limitations are encountered during installation of the networking cables.

*ZUM-HUB4's require SW-HUB4-PROG license key to unlock the Custom Program slot.

Zūm Networked Systems: Control Processors

Zūm Hub

Enables centralized management and time clock for Zūm wired and wireless commercial lighting systems, as well as SpaceBuilder systems. Provides a web-based user interface for easy configuration, control, monitoring, and scheduling. The time clock feature enables automation of room lighting and sensing behavior. The Zūm Hub supports up to 1,000 individual rooms equipped with Zūm lighting systems. Also enables integration with other Crestron lighting systems, control systems, touch screens, shading, HVAC, and more.



ZUM-HUB4 Zūm Hub

Centralized management and time clock for Crestron commercial lighting systems

Supports up to 1,000 individual rooms

Enables integration with non Zūm Crestron lighting systems, control systems, touch screens, shading, HVAC, and more

Gigabit Ethernet networking

Enterprise-grade security

Dedicated Control Subnet for up to 30 Zūm Net wireless gateways

Built-in demand response

Built-in BACnet over IP — for up to 10,000 points

Control Processor Panel Solutions



ZUML-HUB4-PAK
Control System Solution

ZUML-HUB4-PAK

Provides a convenient pre-assembled lighting control cabinet for a Crestron Zūm commercial lighting system.

Pre-assembled lighting cabinet for Zūm lighting control

For commercial applications running entirely on the Zūm platform

Contains a ZUM-HUB4 and 5-Port PoE Switch

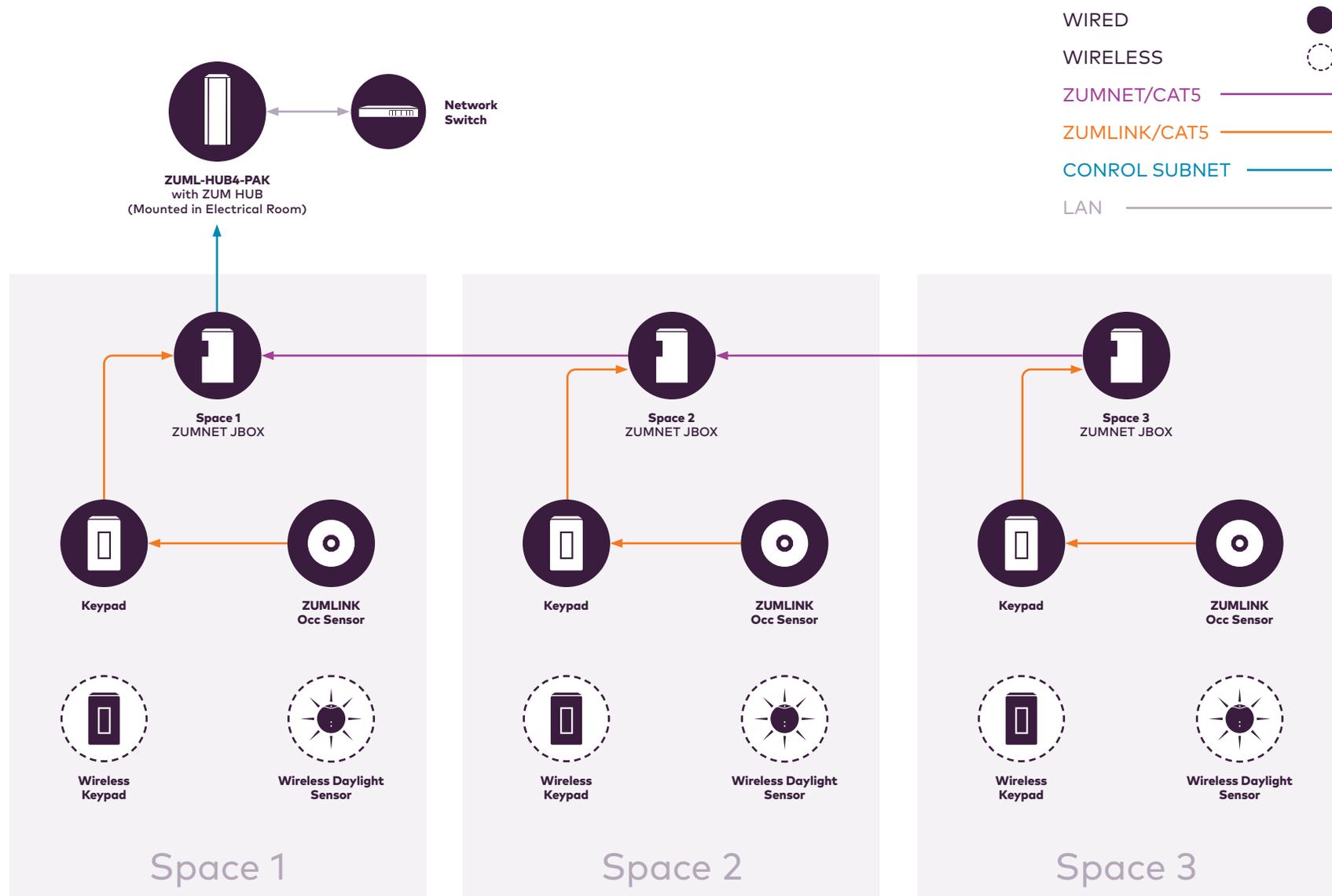
Enables centralized management and time clock for up to 1,000 individual rooms

Enables integration with non Zūm Crestron systems and devices

BACnet

Demand response

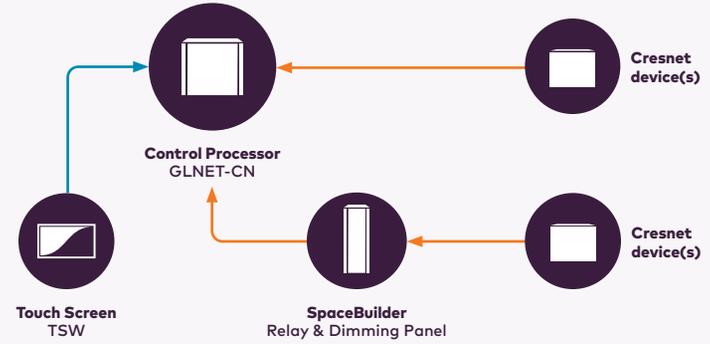
ZUML-HUB4-PAK Spaces



Control Processor Panel



CRESNET ———
ETHERNET ———



GLNET-CN

Provides a convenient pre-assembled lighting control cabinet for entirely Cresnet-based commercial lighting applications, such as lighting relay & dimming panels, Crestron Ethernet devices, and Cresnet devices.

GLNET-CN
Control System Solution

Pre-assembled lighting cabinet for Crestron lighting control

For commercial applications that are entirely Cresnet based

Contains a 4-Series® control system, Cresnet power supply, and 5-Port PoE Switch

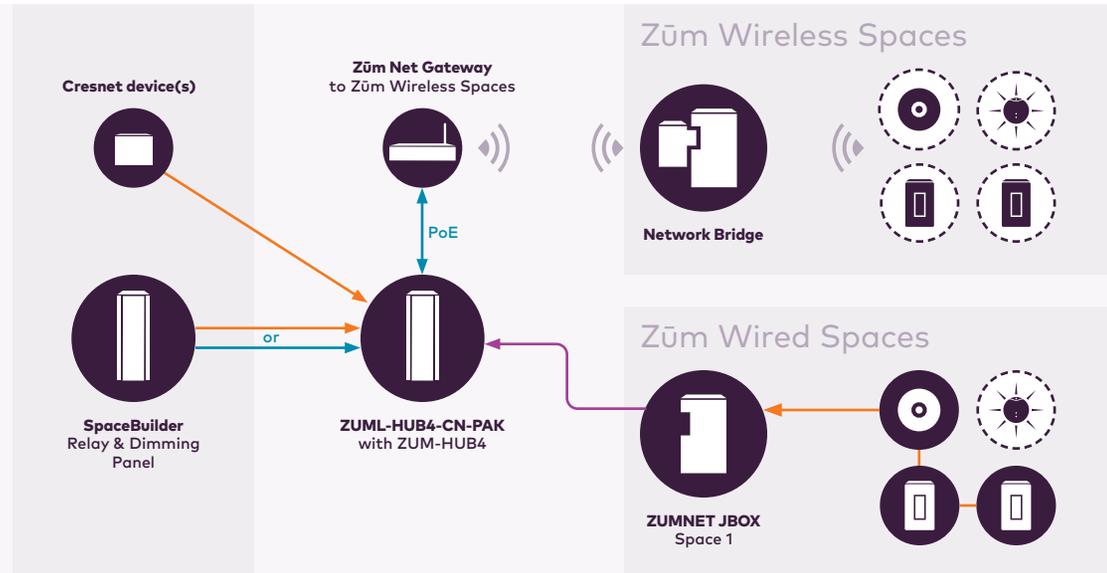
Control Processor Panel Solutions

CRESNET —

ETHERNET —



ZUML-HUB4-CN-PAK
Control System Solution



ZUML-HUB4-CN-PAK

The ZUML-HUB4-CN-PAK provides a convenient pre-assembled lighting control cabinet for commercial lighting applications that combine Crestron Züm Wired, Züm Wireless, and non-Züm Crestron devices.

For commercial applications combining the Züm platform with other Crestron systems

Contains a Züm Hub and 4-Series control system

Includes two Cresnet hubs, two Cresnet power supplies, and two 5-Port PoE switches

Enables centralized management and time clock for up to 1,000 individual rooms

Enables integration with non-Züm Crestron systems and devices

Expansion / Distribution Panel Solutions Panel

(does not include a control processor)



CLP-HUB-SW-POE-10
Expansion Panel

CLP-HUB-SW-POE-10 Expansion Panel

The Crestron CLP-HUB-SW-POE-10 is a preassembled expansion panel that provides additional Ethernet connectivity, and was designed for use with the Crestron ZUML-[®] Lighting Control Processor Panels. The Crestron CLP-HUB-SW-POE-10 contains 2 CEN-SW-POE-5 in a DIN-EN 2X18 cabinet. For additional details and specifications, refer to the individual spec sheets for each component.

Pre-assembled expansion cabinet for Crestron lighting control

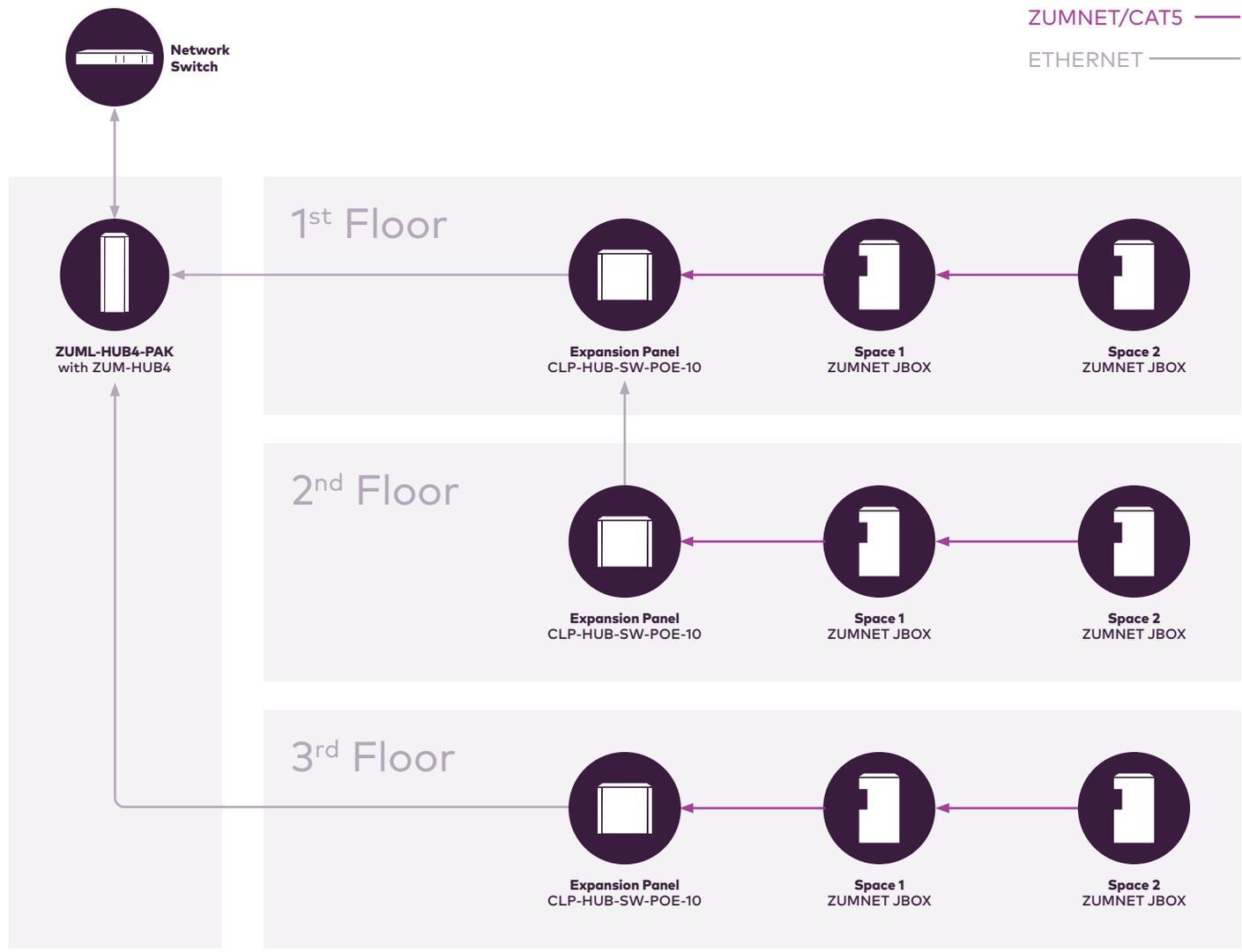
Expands the Ethernet capacity of the Lighting Control Processor Panel to which it is connected

Works with Crestron ZUML-[®] Lighting Control Processor Panels

For commercial applications

two 5-Port PoE Switches (CEN-SW-POE-5) mounted in a wall mount enclosure

CLP-HUB-SW-POE-10 Typical Application



Expansion / Distribution Panel Solutions Panel

(does not include a control processor)



CLP-HUB-SW-POE-16
Expansion Panel

CLP-HUB-SW-POE-16 Expansion Panel

Preassembled expansion panel that provides additional Ethernet connectivity. Designed for use with the Crestron ZUML-[®] Lighting Control Processor Panels. Contains a DIN-CEN-CN-2, a DIN PWS60, and a CEN-SW-POE-16 in a DIN-EN 6X18 cabinet. (For additional details and specifications, refer to the individual spec sheets for each component.)

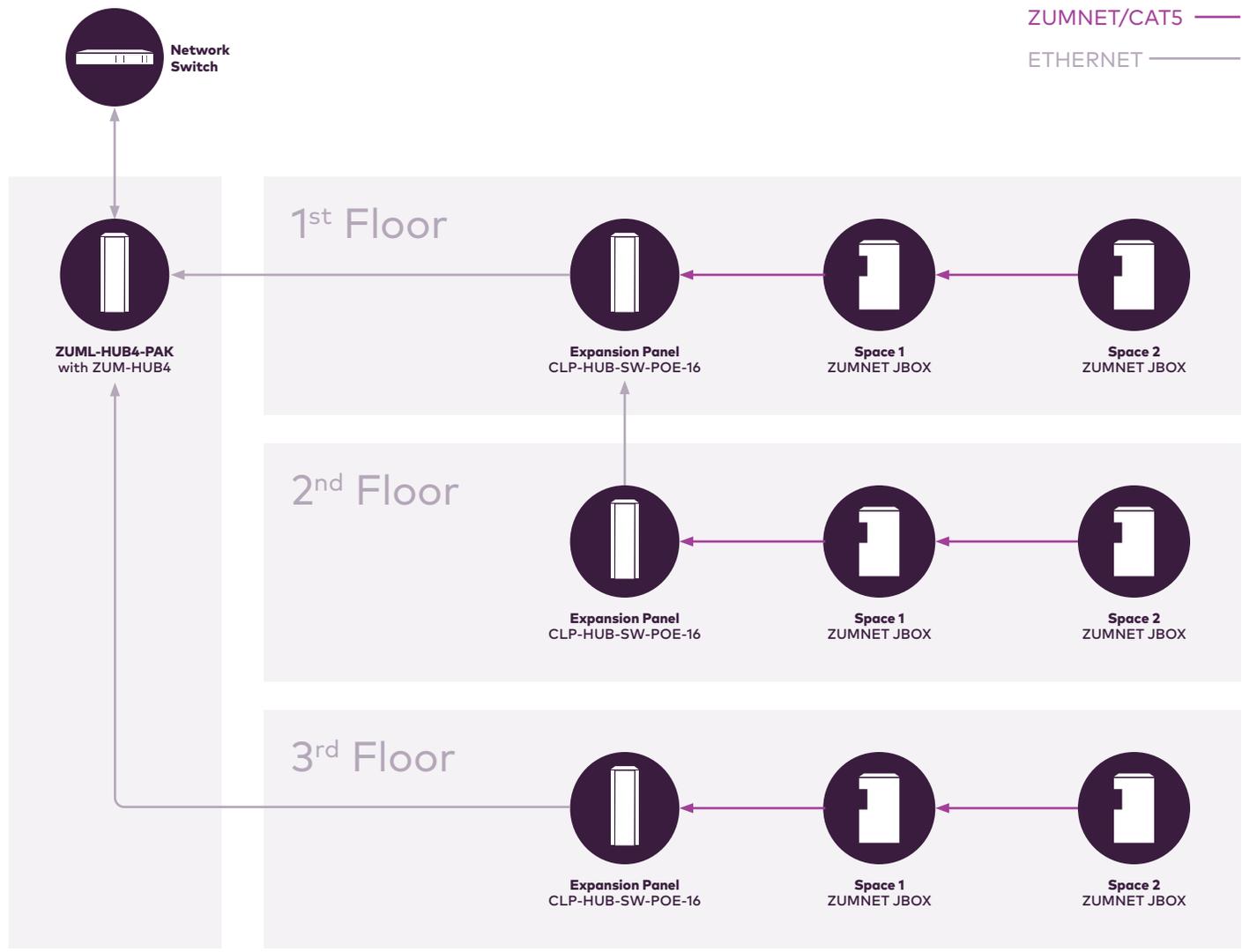
Pre-assembled expansion cabinet for Crestron lighting control

Expands the Ethernet capacity of the Lighting Control Processor Panel to which it is connected

Works with Crestron ZUML-[®] Lighting Control Processor Panels

For commercial applications

CLP-HUB-SW-POE-16 Typical Application



Crestron Is Lighting Control

Count on Crestron to simplify design, installation, and startup of your commercial lighting control project.

Our products and systems meet the needs of individual spaces and can be easily integrated for enterprise-wide monitoring, management, and control.

Our process dramatically reduces the time required to complete each phase of a lighting control project while greatly improving efficiency and scalability.