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# Commercial Lighting Control

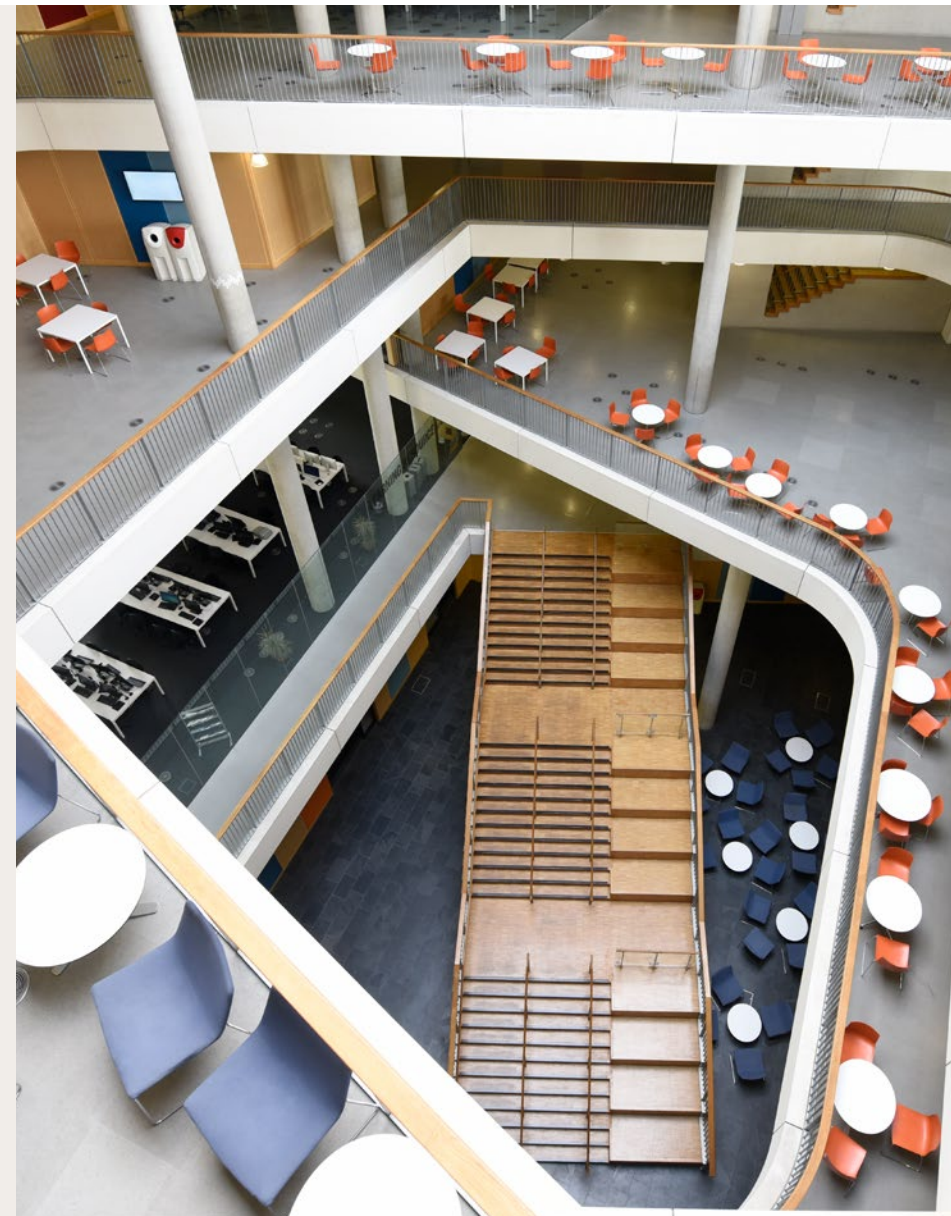
## Product Overview

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# COMMERCIAL LIGHTING CONTROL

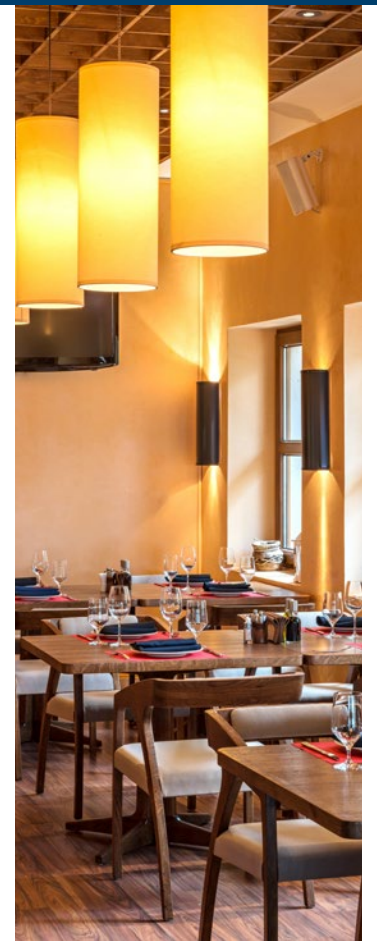
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## SOLUTIONS FOR EVERY SPACE

Crestron simplifies commercial lighting control design, installation, and startup with products and systems designed to meet the individual needs of each space, all working together to create complete building control. This eliminates the over-specification and unnecessary programming inherent in most lighting control systems.

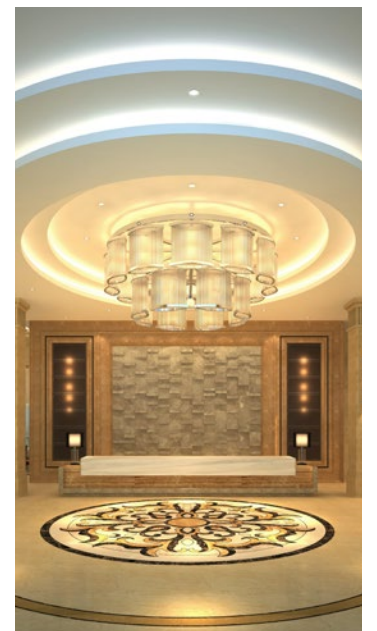
Our innovative Crestron Zūm™ platform offers simple design, installation, and control. With unparalleled scalability, Zūm allows for lighting control in as many – or as few – spaces as required. Each space is configured with the optimal control system, accessories, and nothing more. This dramatically 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 the Crestron XiO Cloud™ service.

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



## Classroom

Züm wireless control



## STEM lab

Züm battery-powered wireless control



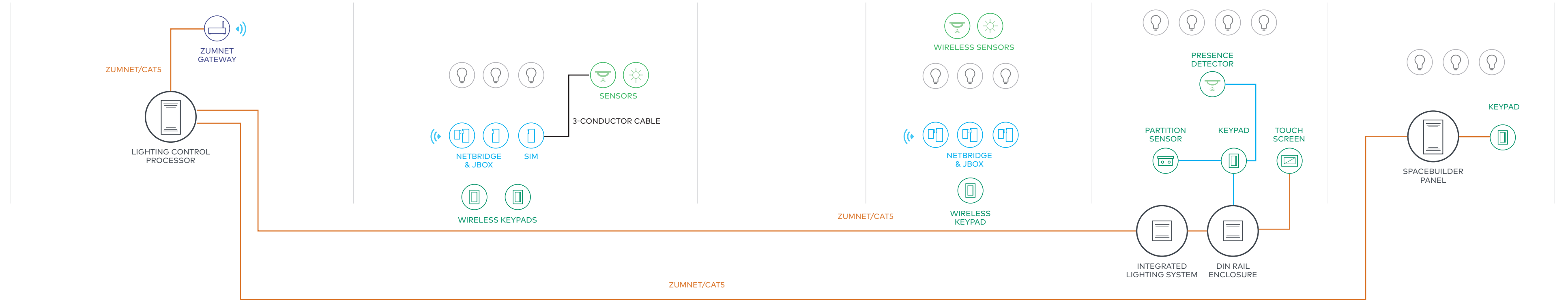
## Cafetorium

SpaceBuilder GLPAC



## Site lighting

SpaceBuilder™ panel

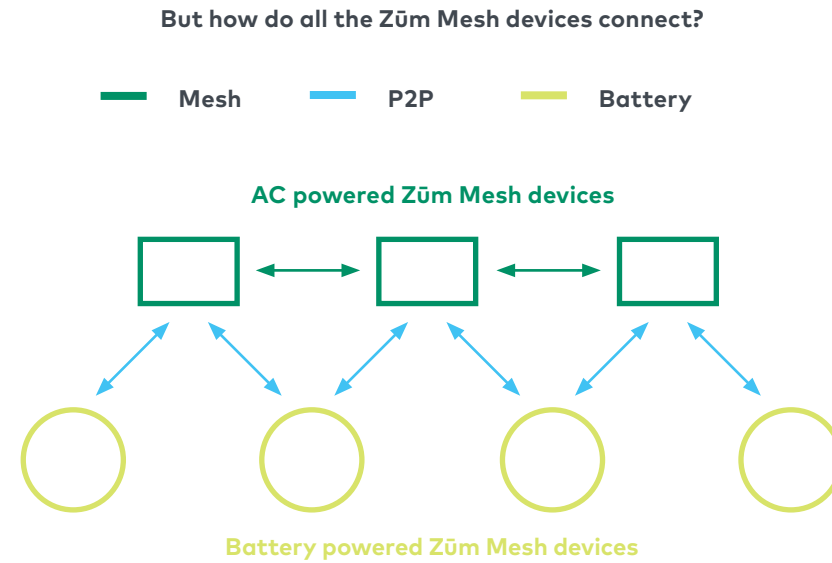


# Crestron Zūm Lighting Control Made Easy

A complete Zūm wireless lighting control system is as easy as 1-2-3:

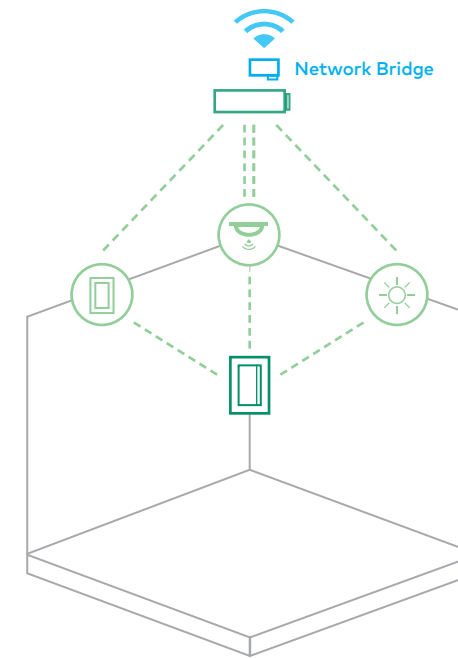
## START WITH A SPACE

First, 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.



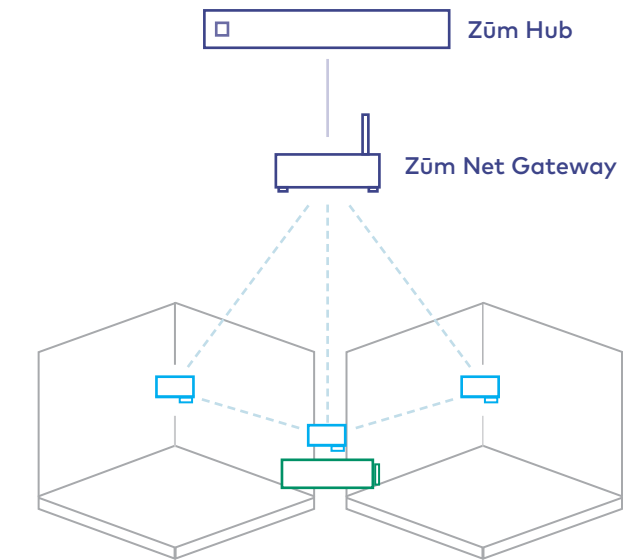
## NETWORKING IS A SNAP

Each Zūm space can then be networked with the addition of a Zūm Network Bridge, which allows Zūm wireless spaces to talk back to the Zūm Hub 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 Zūm Hub and a Zūm Net Gateway to tie all of your rooms together. The Zūm Hub provides the control and the Zūm Net Gateway provides wireless communications to centrally manage, monitor, and control every Zūm space via a Zūm Hub or the Crestron XiO Cloud service.



# Zūm Load Controls

## Zūm Wireless J-Box Zone 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.



Zum J-Box and optional Zum 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 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

- Brings high power, universal phase control dimming to the Zūm product line
- Surface mounting
- Wireless integration with Zūm keypads and occupancy, vacancy, and daylight sensors
- Universal 120-277 VAC input
- Full 16A load rating
- Plenum-rated



# Zūm Load Controls



## Zūm Mesh DALI

Single-loop DALI® controller capable of controlling up to 64 DALI compatible drivers. The ZUMMESH-JBOX-DALI communicates with other Zūm 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.

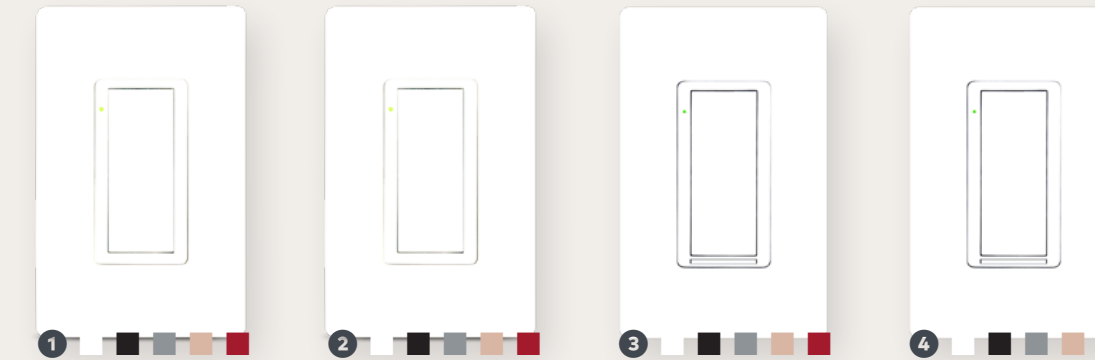
**ZUMMESH-JBOX-DALI**  
DALI dimming

- \_\_\_\_\_ 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 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.

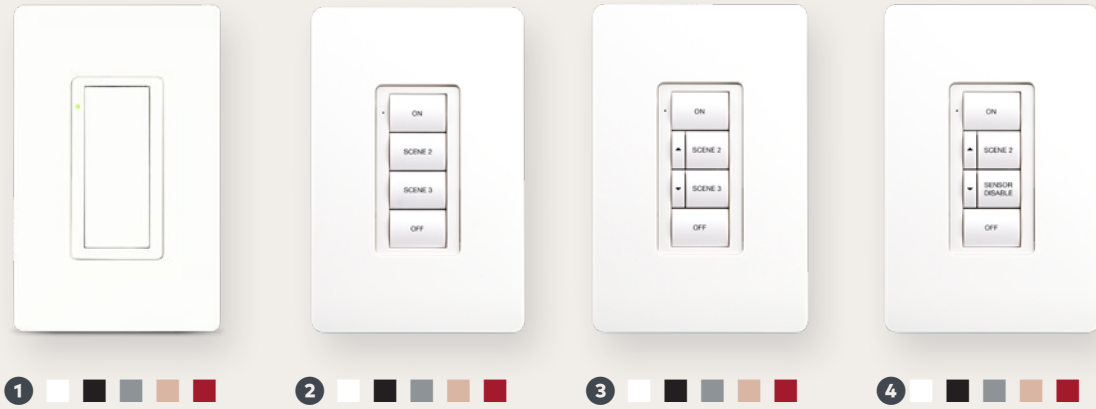
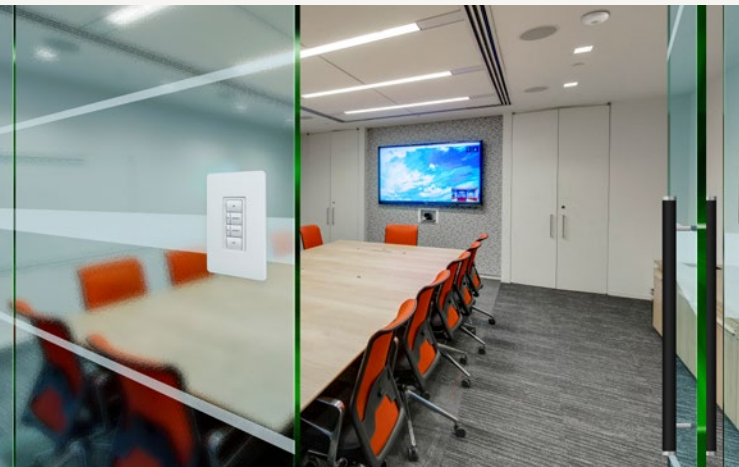


- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>① <b>ZUMMESH-5A-SW-W-S</b><br/>5A Switching</li> <li>② <b>ZUMMESH-5A-LV-W-S</b><br/>5A 0 – 10 Volt Dimming</li> <li>③ <b>ZUMMESH-DELV-W-S</b><br/>500W ELV Dimming</li> <li>④ <b>ZUMMESH-DIM-W-S</b><br/>1200W FWD Phase Dimming</li> </ul> | <ul style="list-style-type: none"> <li>_____ “Pair and play” functionality with Zūm occupancy, vacancy, and daylight sensors</li> <li>_____ Lighting control via a rocker switch</li> <li>_____ Available in red, grey, black, white, and almond colors</li> <li>_____ Flying lead connectors for easy installation</li> <li>_____ Standard wall-box installation, trimmed with gangable decorator-style faceplates*</li> <li>_____ Universal 120-277 VAC inputs</li> <li>_____ *Sold separately</li> </ul> |
|--|---|

# Zūm Keypads

## Zūm Battery Powered Wireless Keypads

Extremely slim battery-powered Zūm 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-S**  
Zūm Rocker Switch, White, Smooth
- ② **ZUMMESH-KP10BBATT-W-S**  
Zūm 4-Button Keypad, White, Smooth
- ③ **ZUMMESH-KP10CBATT-W-S**  
Zūm 6-Button Keypad, White, Smooth
- ④ **ZUMMESH-KP10DBATT-W-S**  
Zūm 6-Button w/Sensor Control, White, Smooth

Zūm battery-powered wireless keypad  
 Pair-and-play functionality with a Zūm Zone Controller  
 Available in red, grey, black, white, and almond 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 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**  
Zūm Rocker AC-Powered Keypad
- ② **ZUMMESH-KP10B**  
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 red, grey, black, white, and almond 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 Sensors



### 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.

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

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Zūm ceiling-mount occupancy sensor

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Passive infrared motion detection

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360-degrees, 500 sq. ft. of coverage

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

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Automatic ON, Automatic OFF

## Zūm Sensors



### 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.

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

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Zūm ceiling-mount vacancy sensor

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Passive infrared motion detection

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360-degrees, 500 sq. ft. of coverage

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

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Grace occupancy feature

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Manual ON, Automatic OFF



## Zūm 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.

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

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Compatible with Crestron GLS-ODT-C-NS, GLS-OIR-C-NS occupancy sensors, and Steinel 24V sensors

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Compatible with Crestron GLS-LOL open-loop daylight sensor

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

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

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120V – 277V powered

## Zūm 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.

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Zūm open-loop, battery-powered daylight sensor

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Ceiling or surface mounting for both sidelight and toplight applications

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

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

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Sleek, compact design

# Zūm 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 rooms

Mounts to single gang wallbox

# Zūm Networking and Accessories



## Zūm Network Bridge

Enables Zūm device setup from a mobile app and integrates a standalone Zūm lighting control system 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.

**ZUMMESH-NETBRIDGE**  
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 Net 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 Networking and Accessories



## 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.

**ZUMMESH-GATEWAY**  
Zūm Net Gateway

- 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

# Zūm Networking and Accessories

## Zūm Hub

Enables centralized management and time clock for Zūm wireless commercial lighting systems, as well as SpaceBuilder and custom 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-FLOOR-HUB**  
Zūm Floor 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



## Züm Networking and Accessories



**GLNET-ZUM**  
Lighting Control Processor Panel, Züm Basic

### Lighting Control Processor Panel, Züm Basic

Pre-assembled lighting control cabinet for use with a Züm lighting system. It contains a Züm Hub and 5-Port PoE Switch, each mounted in a wall mount enclosure. It provides a convenient solution for commercial lighting applications that are running entirely on the Züm platform.

The included PoE switch provides connectivity and PoE support for up to four Ethernet devices.

- Pre-assembled lighting cabinet for Züm lighting control
  - For commercial applications running entirely on the Züm platform
  - Contains a Züm Hub and 5-Port PoE switch
  - Enables centralized management and time clock for up to 1,000 individual rooms
- \*See the Networking section for more networking accessories and distribution panels.

## Züm Networking and Accessories



**ZUMMESH-JBOX-PSU**  
Züm J-Box Power Supply

### Züm J-Box Power Supply

Delivers power to the Züm Network Bridge for use in Züm spaces controlled via a ZUMMESH-5A-LV (Wireless 0-10V Wall-Box Dimmers) or a ZUMMESH-5A-SW (Wireless Wall-Box Switches). Each power supply wirelessly connects to Züm daylight sensors, occupancy sensors, vacancy sensors, keypads, and dimmers or switches over the Züm Mesh network.

- Züm junction box-mounted power supply for Züm accessories, such as the Züm Network Bridge and the Züm Contact Closure Output
- Züm Network Bridge integration for Züm spaces controlled via Züm dimmers or switches
- Züm Mesh peer-to-peer RF communications for easy integration into a complete standalone or networked Züm wireless lighting control solution
- Wireless integration with Züm keypads, occupancy sensors, vacancy sensors, and daylight sensors

## Zūm Networking and Accessories



### 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.

**ZUMMESH-CCO**  
Zūm Contact Closure Output

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Adds a contact closure output

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

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Rated 1 Amp @ 30 volts AC

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Enables integration with HVAC equipment to save energy

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Attaches to Zūm J-Box Accessory Power Supply

## Zūm 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

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

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Bi-directional RS-232 or USB communication AV system

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Mounts inconspicuously at the AV equipment location

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Powered via 24Vdc or USB

## Zūm Networking and Accessories



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

### 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.

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 Networking and Accessories



**ZUMMESH-KP-BATT-LM**  
Adhesive Label

### 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.

Elegantly conceals the rear of a ZUMMESH KP BATT when it is mounted to transparent glass

Easily adheres to clean, smooth glass





## Crestron **SPACEBUILDER**<sup>®</sup>

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

## GLPP SpaceBuilder System

Offers effective and powerful lighting control for small-sized spaces with automation based on natural light and the presence of people within the space.



### GLPP SpaceBuilder System SpaceBuilder Distributed System

- 1-3 zones of 0-10V dimming/switching
- Standalone or networkable configurations
- Up to 3 keypads; up to 2 occupancy/vacancy sensor and 1 daylight sensor
- Global and zone keypad options
- Expansion for controlled receptacles (plug load control)
- Class 1 NEMA enclosure for remote location
- Also available outside of SpaceBuilder
- 120 - 277 VAC

# SpaceBuilder Distributed Systems

## GLPAC SpaceBuilder System

Ideal for medium-sized spaces needing switching and dimming that require additional options such as expansion modules for more load types, touch screens, additional sensors, and shade and AV integration.



### GLPAC SpaceBuilder System SpaceBuilder Distributed System

- 4 to 8 zones of 0-10V dimming/switching, SpaceBuilder up to 16 zones
- Built-in time clock
- 100,000 cycle relays
- Up to 4 keypads
- Up to 4 occupancy/vacancy and 4 daylight sensors
- Optional 7" color touch screen for advanced control
- Shade integration options
- AV integration options
- Expansion for additional loads for 0-10V, switching, DMX, phase control, or controlled receptacles (plug load control)
- Class 1 NEMA enclosure for remote location or above ceiling
- Also available outside of SpaceBuilder
- 120 - 277 VAC



# SpaceBuilder Distributed Systems

## GLDALI SpaceBuilder System

Ideal for medium to large spaces that need flexibility to reconfigure zones, adjust color temperature, or control ambient and task lighting within the same space.



### GLDALI SpaceBuilder System SpaceBuilder Distributed System

2 DALI output loops for space or floor; control for up to 128 fixtures; built-in time clock

Standalone or networkable configurations; shade and AV integration options

Up to 4 keypads; up to 4 occupancy/vacancy sensors and 4 daylight sensors

Optional 7" color touch screen for system setup and master control

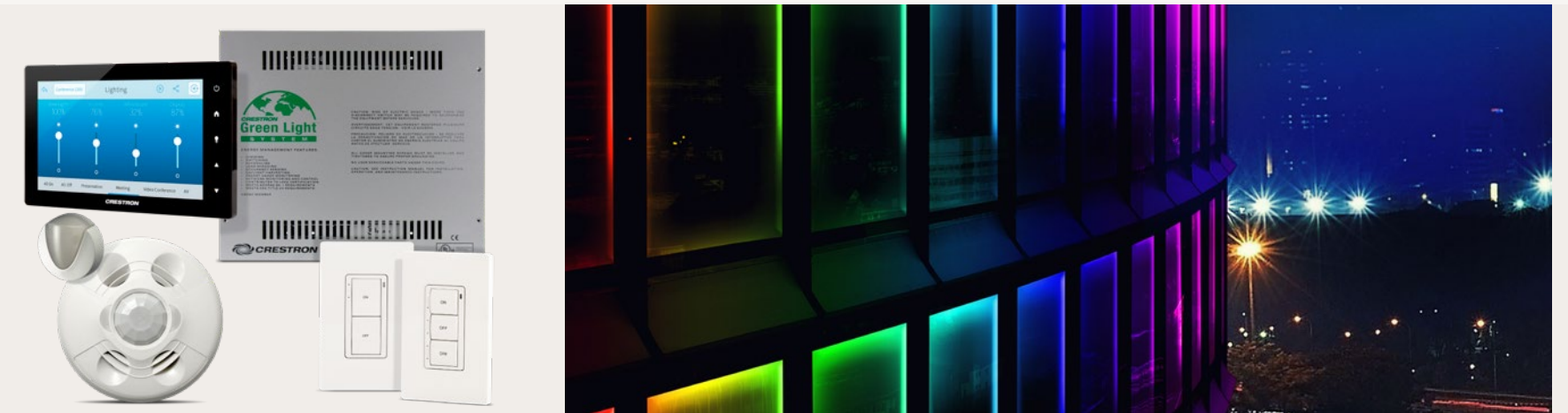
Expansion for additional loads for 0-10V dimming/switching, phase control or controlled receptacles (plug load control)

Class 1 NEMA enclosure for remote location

# SpaceBuilder Distributed Systems

## GLDMX SpaceBuilder System

Best suited for controlling DMX lighting typically needed in lobbies, exteriors, banquet halls, restaurants, and other entertainment venues.



### GLDMX SpaceBuilder System SpaceBuilder Distributed System

Up to two DMX512 universe; control for theatrical and architectural lighting; advanced DMX control

Standalone or networkable configurations; AV integration options

Up to 4 keypads; up to 4 occupancy/vacancy sensors and 4 daylight sensors

Optional 7", 10", or 20" color touch screen for advanced control

Class 1 NEMA enclosure for remote location



# 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 an 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





# 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.



**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



# 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
- Configurable emergency/life safety zones
- 2-wire forward phase dimming, 0 – 10V dimming, switching
- 100K/1,000K cycle switching
- Astronomical time-clock control with optional processor

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



# 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

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3-phase 120 or 277 VAC

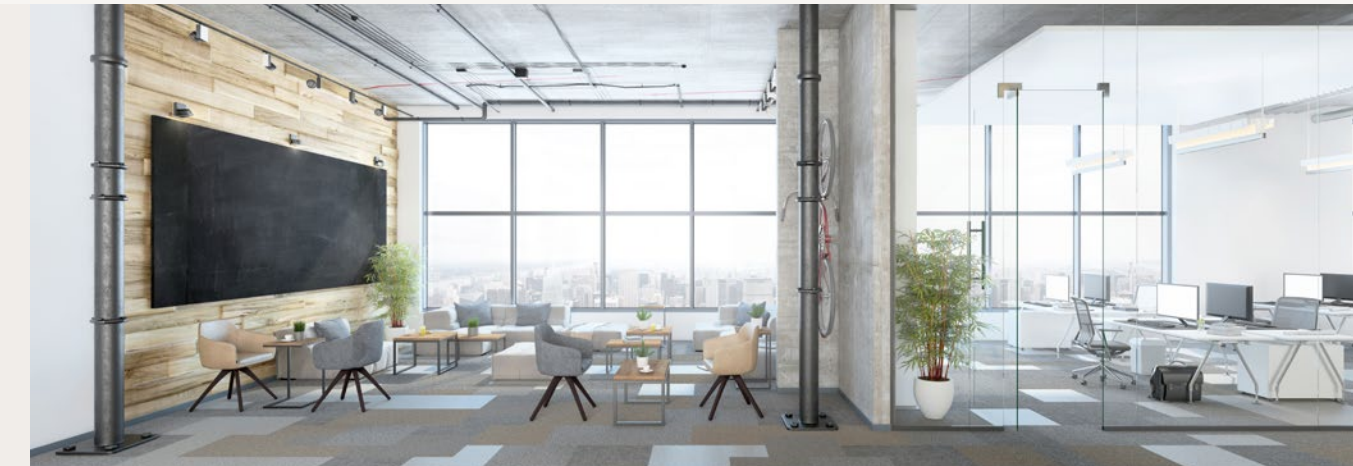
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Optional processor

# 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

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

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

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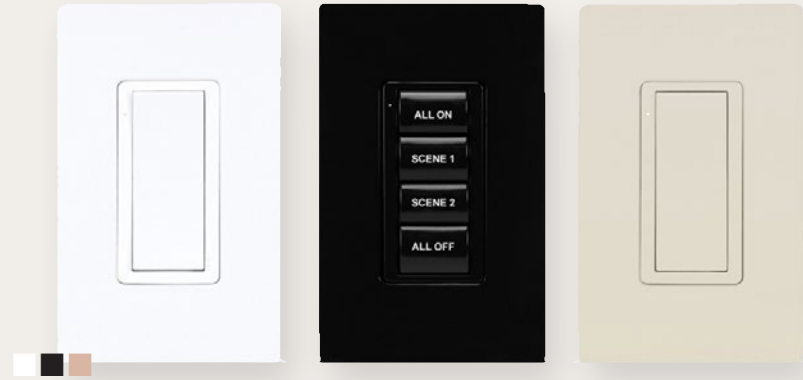
DIN-DALI-2 provides from 2 to 32 loops.

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

# SpaceBuilder Interfaces

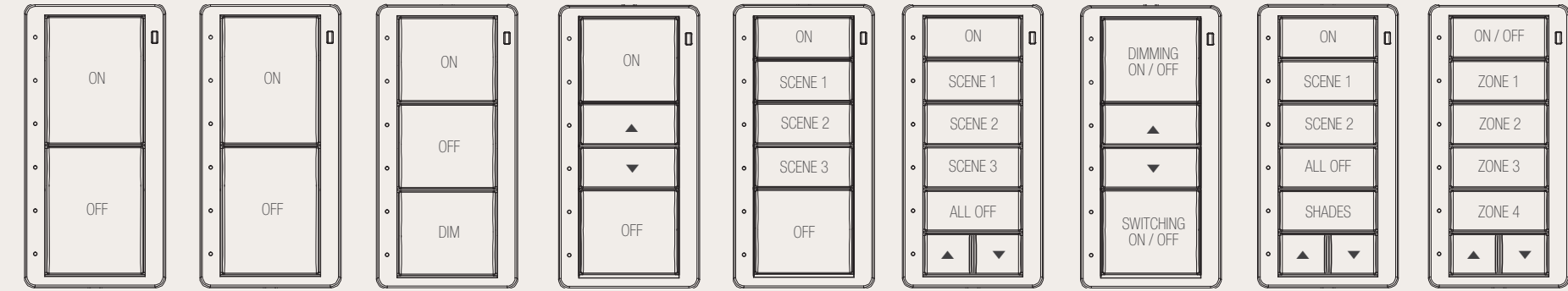
## GLPP Keypads



- ① **GLPPA-KP- (W-S) / (B-S) / (A-S)**  
In-wall Master Scene Keypad for GLPP,  
White, Black or Almond, Smooth
- ② **GLPPA-KP1- (W-S) / (B-S) / (A-S)**  
In-wall Zone Keypad for GLPP,  
White, Black or Almond, Smooth
- ③ **GLPPA-KP4- (W-S) / (B-S) / (A-S)**  
In-wall Zone Master Keypad for GLPP,  
White, Black or Almond, Smooth

# SpaceBuilder Interfaces

## Cameo Keypads



Type A      Type B      Type C      Type D      Type E      Type F      Type G      Type H      Type N

**C2N-CBD-P- (W-T) / (B-T) / (A-T)**  
Cameo Keypad, Standard Mount,  
White, Black, or Almond

**C2N-CBD-E- (W-S) / (B-S) / (A-S)**  
Cameo Express Keypad, Standard Mount,  
White, Black, or Almond

**CLW-DIMEX-P- (W-S) / (B-S) / (A-S) /  
(W-T) / (B-T) / (A-T)**  
Cameo Wireless In-Wall Dimmer, 120V,  
White, Black, or Almond

**CLW-SWEX-P-A-S**  
Cameo Wireless In-Wall Switch, 120V,  
White, Black, or Almond

**CLW-SLVU-P-W-S**  
Cameo In-Wall Remote Dimmer, 120V,  
White, Black, or Almond

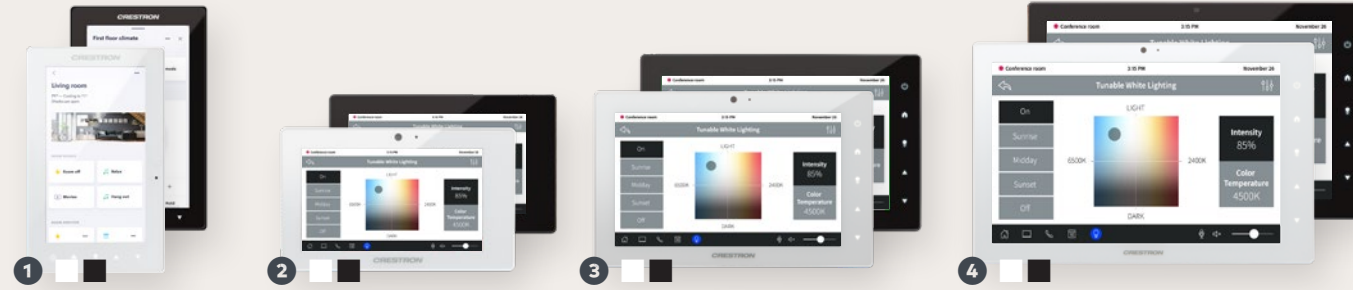
# SpaceBuilder Interfaces

## LCD Panel Keypads



**C2N-LCDB3**  
Multi-Purpose LCD Keypad

## Touch Screens



- ① **TSW-560P**  
5 in. Portrait Touch Screen, White or Black
- ② **TSW-560**  
5 in. Touch Screen, White or Black
- ③ **TSW-760**  
7 in. Touch Screen, White or Black
- ④ **TSW-1060**  
10 in. Touch Screen, White or Black

# 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

## 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.



- 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

# Sensors

## Partition Sensor

Sleek, surface-mount partition sensor that utilizes dependable Cresnet® wired network for power and communications. Designed with hospitality environments in mind, this easily installed sensor uses an infrared (IR) beam to sense the position of movable partitions within a space. The IR beam's signal strength is adjustable and features a sensing distance of up to four feet. Three LEDs provide at-a-glance information on the sensor's state of power, communications, and partition detection. Mounting options for rooms with finished or droptile ceilings



**GLS-PART-CN**  
Cresnet Partition Sensor



# Steinel Presence Detectors

## PIR Sensors

Steinel 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

---

# Steinel Presence Detectors

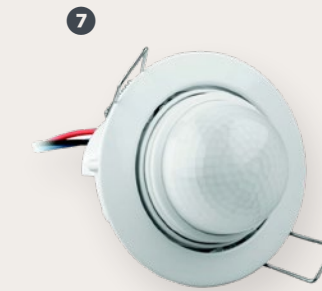


- ⑤ **GLA-IS-3180-24**  
Single relay
- ⑥ **GLA-IS-3360-24**  
Dual relays for lighting and HVAC

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Low voltage (18-24 VDC/VAC) with 180 degree coverage  
42' radial reach; 65' tangential  
448 switching zones

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- ⑦ **GLA-IS-D360-24**  
Single relay

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Low voltage (18-24 VDC/VAC) with 360 degree coverage  
13' radial reach; 26' tangential  
720 switching zones

---

# Steinel 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-COM2-24**  
Dual relays for lighting and HVAC
- ⑥ **GLA-DT-CM-DIM-24**  
1-10 volt dimming and daylighting

---

Low voltage (18-24 VDC/VAC)

---

22' presence; 160 degree 82' max

---

# Steinel 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-QUATTRO-COM2-24**  
Dual relays for lighting and HVAC

---

Low voltage (18-24 VDC/VAC)

---

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

---



- ⑤ **GLA-US-ONEWAY-COM1-24**  
Single relay
- ⑥ **GLA-US-ONEWAY-COM2-24**  
Dual relays for lighting and HVAC

---

Low voltage (18-24 VDC/VAC)

---

Unidirectional detection, 6.5' x 33' max

---

# Steinel 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) / (BK) / (GY) / (LA)**  
Single relay

② **GLA-IR-WLS-2- (W) / (BK) / (GY) / (LA)**  
Dual relays for bi-level load switching

③ **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'

④ **GLA-IR-VS-1- (W) / (BK) / (GY) / (LA)**  
Single relay

⑤ **GLA-IR-VS-2- (W) / (BK) / (GY) / (LA)**  
Dual relays for bi-level load switching

⑥ **GLA-IR-VS-DIM- (W) / (BK) / (GY) / (LA)**  
0-10 volt dimming

120/230/277 VAC, 50/60 Hz

180 degree coverage

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

# Steinel Presence Detectors

## In-Wall Line-Voltage US Sensors

A line voltage, single relay, Ultrasonic wall switch occupancy sensor to control lighting in commercial spaces. Ultrasonic is used where the sensor may not have a clear line of site of the occupants in the desired coverage area.



① **GLA-US-WLS-1- (W) / (BK) / (GY) / (LA)**  
Single relay

② **GLA-US-WLS-2- (W) / (BK) / (GY) / (LA)**  
Dual relays for bi-level load switching

③ **GLA-US-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 15' x 15'

④ **GLA-US-VS-1- (W) / (BK) / (GY) / (LA)**  
Single relay

⑤ **GLA-US-VS-2- (W) / (BK) / (GY) / (LA)**  
Dual relays for bi-level load switching

⑥ **GLA-US-VS-DIM- (W) / (BK) / (GY) / (LA)**  
0-10 volt dimming

120/230/277 VAC, 50/60 Hz

180 degree coverage

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

# Steinel Presence Detectors

## In-Wall Line-Voltage Dual Tech 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-2- (W) / (BK) / (GY) / (LA)**  
Dual relays for bi-level load switching
- ③ **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'

- ④ **GLA-DT-VS-1- (W) / (BK) / (GY) / (LA)**  
Single relay
- ⑤ **GLA-DT-VS-2- (W) / (BK) / (GY) / (LA)**  
Dual relays for bi-level load switching
- ⑥ **GLA-DT-VS-DIM- (W) / (BK) / (GY) / (LA)**  
0-10 volt dimming

120/230/277 VAC, 50/60 Hz

180 degree coverage

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

# Steinel 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

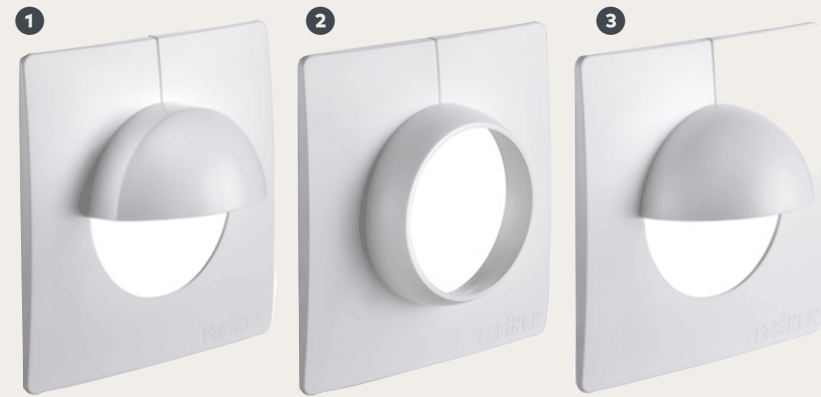


# Steinel High Voltage Standalone Sensors

## High Bay Sensors / Accessories



**GLA-EM-1**  
Steinel EM1 Extender Module



- 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

# Steinel 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

120/230/277 VAC, 50/60 Hz

Provides up to 250mA of 24VDC low voltage output

- ④ **GLA-TR-150**  
Manual ON or Automatic ON
- ⑤ **GLA-TR-150-A**  
Automatic ON
- ⑥ **GLA-TR-150-M**  
Manual ON

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

# 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 GLNET-ZUM processor cabinet is used when networking Zūm-only systems and connects via wireless gateways that aggregate all Zūm spaces that are equipped with a ZUMMESH-NETBRIDGE. Users access a ZUM-HUB inside the cabinet 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.

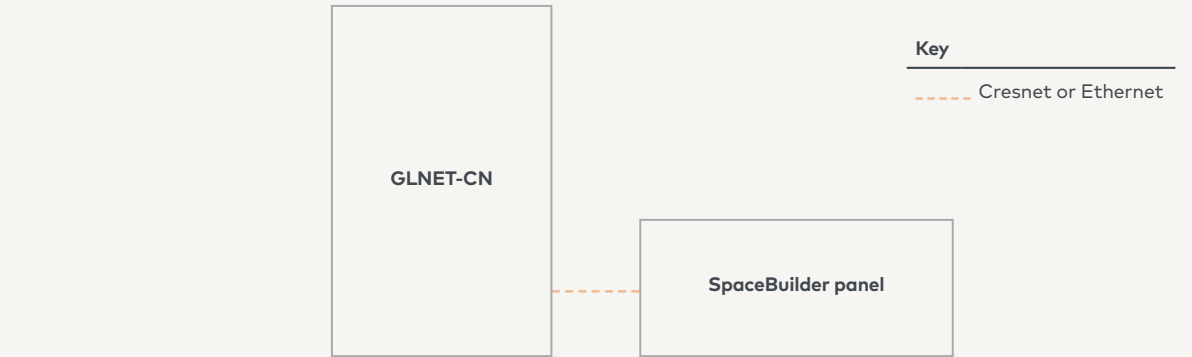
If the system has traditionally wired Crestron components that are connected to the network via Cresnet or ethernet, the GLNET-CN cabinet can be used to program and control the spaces. This classic topology gives the end user the same features as the GLNET-ZUM solution, but with a bit more "set-it-and-forget-it" type of application.

To network a hybrid system using 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.

## Control System Solutions



**GLNET-CN**  
Control System Solution



### GLNET-CN

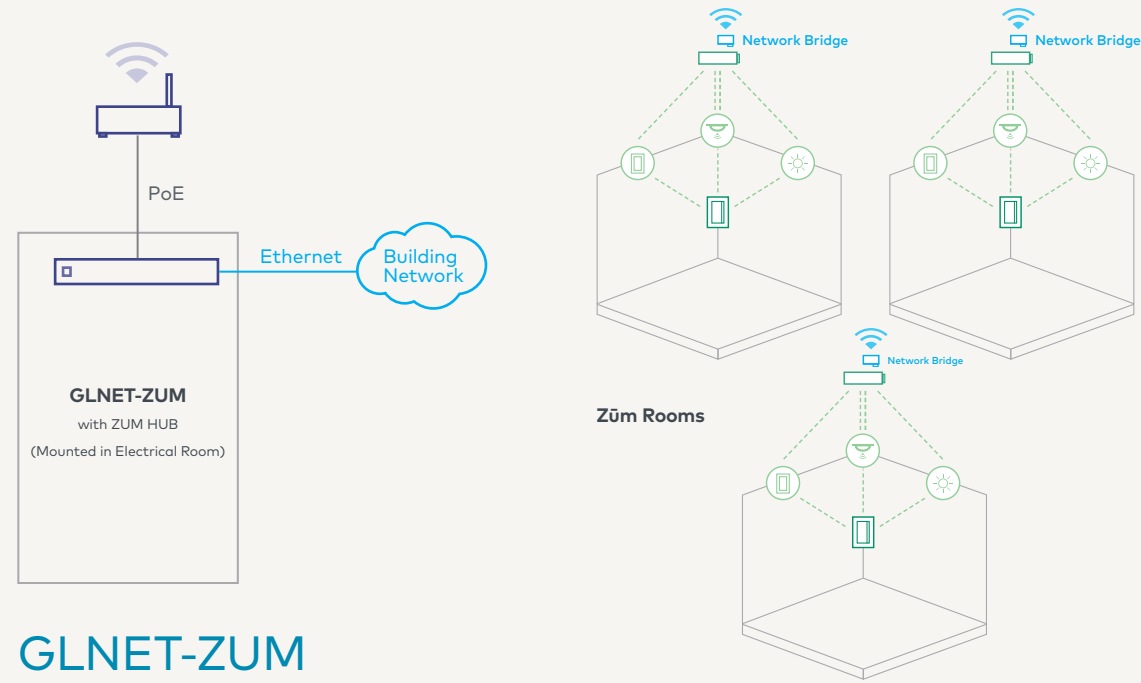
Provides a convenient pre-assembled lighting control cabinet for commercial lighting applications that don't require scheduling.

Pre-assembled lighting cabinet for Crestron lighting control

For commercial applications that don't require scheduling

Contains a 3-Series® control system, Cresnet power supply, and 5-Port PoE Switch

# Control System Solutions



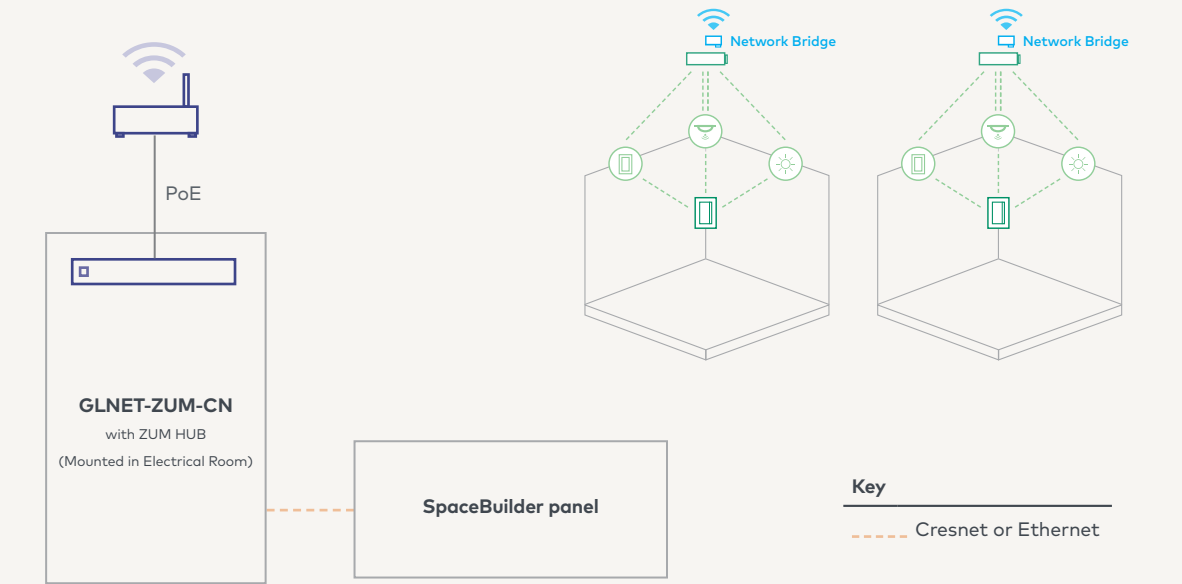
## GLNET-ZUM

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 Zūm Hub 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

**GLNET-ZUM**  
Control System Solution

# Control System Solutions



## GLNET-ZUM-CN

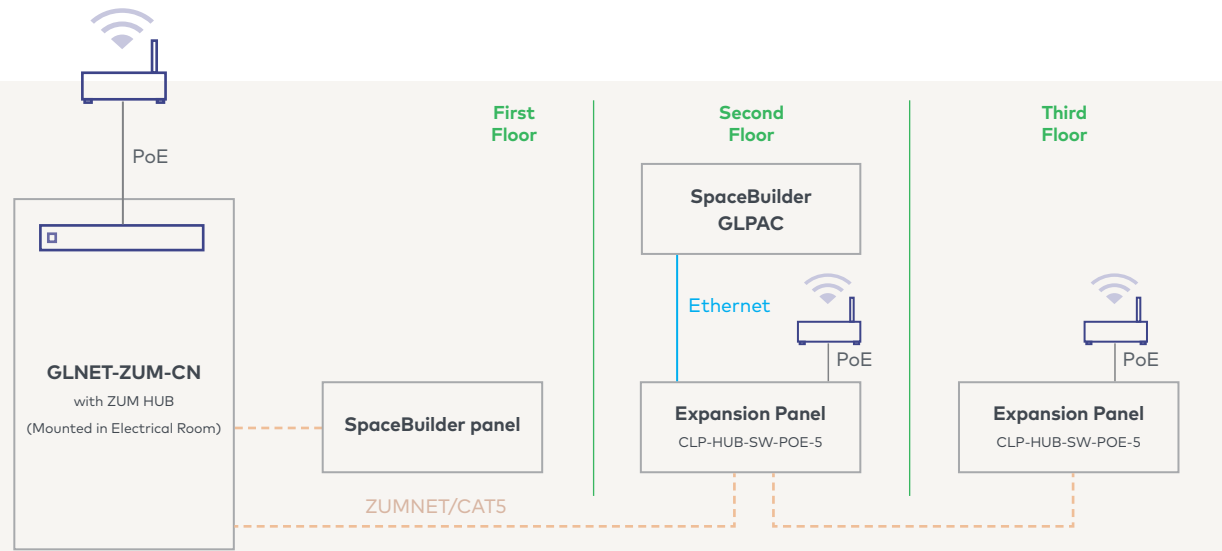
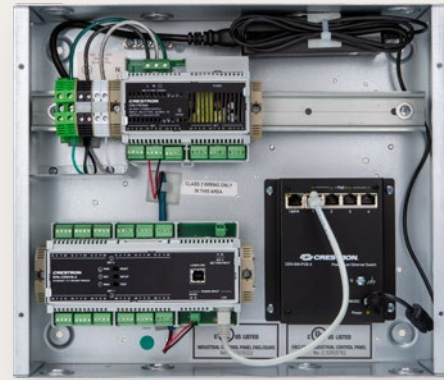
The GLNET-ZUM-CN provides a convenient pre-assembled lighting control cabinet for commercial lighting applications that combine Crestron Zūm with other Crestron systems and devices.

- Pre-assembled lighting cabinet for Crestron Zūm lighting control
- For commercial applications combining the Zūm platform with other Crestron systems
- Contains a Zūm Hub and 3-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-Zūm Crestron systems and devices

**GLNET-ZUM-CN**  
Control System Solution

**Key**  
----- Cresnet or Ethernet

# Expansion Panel



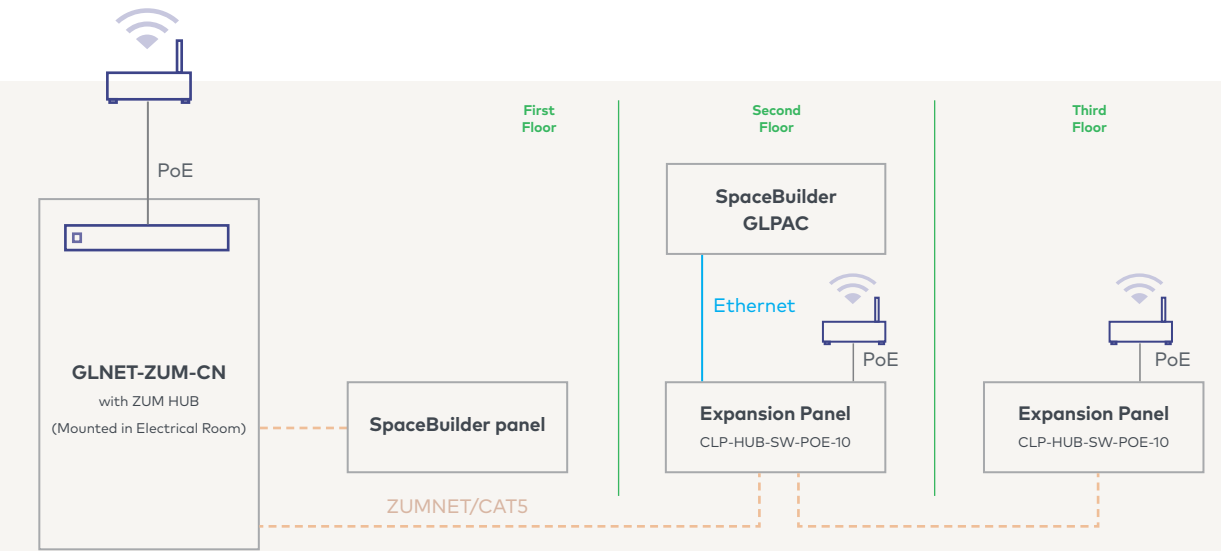
## CLP-HUB-SW-POE-5 Expansion Panel

Preassembled expansion panel that provides additional Ethernet connectivity. Designed for use with the Crestron GLNET-CN, GLNET-ZUM, and GLNET-ZUM-CN Lighting Control Processor Panels. Contains a DIN-CEN-CN-2, a DIN PWS60, and a CEN-SW-POE-5 in a DIN-EN 2X18 cabinet. (For additional details and specifications, refer to the individual spec sheets for each component.)

**CLP-HUB-SW-POE-5**  
Expansion Panel

- 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 GLNET-CN, GLNET-ZUM, and GLNET-ZUM-CN Lighting Control Processor Panels
- For commercial applications

# 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 GLNET-CN, GLNET-ZUM, and GLNET-ZUM-CN 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.

**CLP-HUB-SW-POE-10**  
Expansion Panel

- 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 GLNET-CN, GLNET-ZUM, and GLNET-ZUM-CN Lighting Control Processor Panels
- For commercial applications









## Crestron is lighting control

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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.