

ZUM-FLOOR-HUB

Zūm™ Floor Hub

- > A single point of control and integration for up to 100 Zūm™ spaces
- > Astronomical time clock and programmable event scheduling capabilities of Zūm commercial lighting systems
- > Centralized management and control
- > Real-time room status updates
- > Modular architecture
- > Onboard 512MB RAM & 4GB Flash memory
- > Expandable storage up to 1TB
- > Rear panel memory card slot
- > High-speed USB 2.0 host port
- > Industry-standard Ethernet wired communications
- > Control Subnet — provides a dedicated local network for Zūm devices
- > Web-based control and setup
- > Native BACnet™/IP support [2]
- > Full Unicode (multi-language) support
- > TLS, SSL, SSH, and SFTP network security protocols
- > FIPS 140-2 compliant encryption
- > IPv6 ready
- > 1-space rack-mountable

The Crestron® ZUM-FLOOR-HUB networks up to 100 Zūm™ rooms or spaces, providing a single point of control for the commercial lighting system. The hub features an astronomical time clock for scheduling lighting events, centralized management and control for each space or across all the spaces at once, and realtime room status updates. The Zūm Hub forms the core of any modern networked commercial lighting installation, monitoring and managing the entire lighting system throughout your facility to make life easier, greener, more productive, and more enjoyable.

Zūm Across the Enterprise

Zūm achieves cutting-edge wireless commercial lighting control and tremendous energy efficiency for every intelligent enterprise. An installer simply connects a single Zūm Wireless Gateway^[1] to the Zūm Hub's Control Subnet port to gain control of all Zūm Network Bridges within 150 feet. Each Zūm Network Bridge provides a single point of control for every Zūm occupancy sensor, vacancy sensor, photosensor, keypad, and dimmer or switch within a room or space.^[1] Up to 32 devices can connect to a Network Bridge, and up to 100 Network Bridges can connect to a Zūm Hub. A Zūm Hub and a Zūm Gateway synergistically deliver enterprise-wide lighting system central monitoring, management, reporting, and control. With a simple installation and setup process for every device and little to no programming required, Zūm is a revolutionary, easy-to-use commercial lighting control system for the intelligent enterprise that values centralized lighting management, scalability, and flexibility in either new or retrofit applications.



Scalable Lighting Control

Today's smart commercial enterprises require more technology and central management than ever before. Lighting systems need to be scalable, networked, managed, and controlled in fundamentally easy and energy efficient ways. The IP-based Zūm platform is engineered from the ground up to deliver a network-grade server appliance capable of faithfully handling everything from daylight harvesting and occupancy sensing in a single room to lighting control and management throughout an entire building.

Zūm embodies a distinctively robust, dynamic, and secure platform to elevate your lighting system designs to higher levels of performance and reliability. Zūm provides astonishing processing power and speed with ample memory, rock solid networking and IP control, and a unique modular architecture.

Modular Architecture

Designed for unparalleled scalability, the Zūm Hub affords high-speed, real-time multi-tasking to seamlessly run multiple programs simultaneously. This exclusive modular architecture lets programmers independently develop and run device-specific lighting programs in order to optimize energy efficiency and to allow for changes to be made to one space without affecting the whole system. Even as your system grows, processing resources can easily be shifted from one Zūm Hub to another without rewriting any code. The end benefit is dramatically simplified upgradability with minimal downtime, whether implementing changes on site or remotely via the network.

Dedicated Control Subnet

A separate LAN port on the Zūm Hub provides a single-point connection to the customer's LAN, requiring just one IP address for the complete control system. The LAN port allows full interconnectivity between devices on the local subnet with other devices, systems, servers, and WAN/Internet connections outside the local subnet.

BACnet™/IP

Native support for the BACnet/IP communication protocol provides a direct interface to third-party building management systems over Ethernet, simplifying integration with other systems such as HVAC systems. Using BACnet/IP, each system runs independently with the ability to communicate together on one platform for a truly smart building.^[2]

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SPECIFICATIONS

Memory

SDRAM: 512 MB
Flash: 4 GB
Memory Card: Supports SD and SDHC cards up to 32 GB
External Storage: Supports USB mass storage devices up to 1 TB

Communications

Ethernet: 10/100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, BACnet/IP^[2], IPv4 or IPv6, Active Directory authentication, IIS v.6.0 Web Server, SMTP e-mail client
Control Subnet: 10/100/1000 Mbps Ethernet, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP server, DNS Server, port forwarding, Isolation Mode
USB: Supports USB mass storage class devices via rear panel USB 2.0 host port



Connectors & Card Slots

MEMORY: (1) SD memory card slot;
Accepts one SD or SDHC card up to 32 GB for memory expansion
USB: (1) USB Type A female; USB 2.0 port for storage devices
LAN: (1) 8-pin RJ45 jack;
10Base-T/100Base-TX/1000Base-T Ethernet port;
Connects to the customer's LAN
CONTROL SUBNET: (1) 8-pin RJ45 jack;
10Base-T/100Base-TX/1000Base-T Ethernet port;
Provides a dedicated local network for Zūm devices
NET: (1) 4-pin 3.5 mm detachable terminal block;
Wired communications master port
24VDC 2.0A: (1) 2.1 x 5.5 mm DC power connector;
24 Volt DC power input; PW-2420RU power pack included;
Passes through to NET port to power Zūm devices;
G: (1) 6-32 screw;
Chassis ground lug

Controls & Indicators

PWR: (1) Green LED, indicates operating power supplied from power pack or Zūm network
NET: (1) Amber LED, indicates communication with the Zūm system

MSG: (1) Red LED, indicates control system has generated an error message

HW-R: (1) Recessed pushbutton for hardware reset

SW-R: (1) Recessed pushbutton for software reset

LAN (Rear): (2) Bi-color green/amber LEDs, left LED indicates Ethernet link status and connection speed, right LED indicates Ethernet activity

CONTROL SUBNET (Rear): (2) Bi-color green/amber LEDs, left LED indicates Ethernet link status and connection speed, right LED indicates Ethernet activity

Power

Power Pack: 2.0 Amps at 24 Volts DC;
100-240 Volts AC, 50/60 Hz power pack, model PW-2420RU included

Environmental

Temperature: 41° to 113° F (5° to 45° C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 50 BTU/hr

Enclosure

Chassis: Metal, black finish
Faceplate: Extruded metal, black finish, polycarbonate label overlay
Mounting: Freestanding or 1 RU 19-inch rack-mountable (adhesive feet and rack ears included)

Dimensions

Height: 1.70 in (44 mm) without feet
Width: 17.28 in (439 mm);
19.00 in (483 mm) with rack ears
Depth: 6.56 in (167 mm)

Weight

3.1 lb (1.42 kg)

Standards & Certifications

CEC Title 24 2013 Compliant^[3]
ASHRAE 90.1-2016^[4]
IECC-2015^[5]
FCC

MODELS & ACCESSORIES

Available Models

ZUM-FLOOR-HUB: Zūm Floor Hub

Available Accessories

ZUMNET-GATEWAY: Zūm Wireless Gateway

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Notes:

1. Item(s) sold separately.
2. License required. The ZUM-FLOOR-HUB supports a maximum of 1000 BACnet objects when dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size and complexity.
3. This product is part of Crestron T24-2013 compliant solutions. Reference the T24-2013 design guide for additional devices required for fully compliant solutions.
4. This product is part of Crestron ASHRAE 90.1-2013 compliant solutions. Reference the ASHRAE 90.1-2013 design guide for additional devices required for fully compliant solutions.
5. This product is part of Crestron IECC-2015 compliant solutions. Reference the IECC-2015 design guide for additional devices required for fully compliant solutions.

All design guides can be accessed via the Consultant Partner Portal at <http://www.crestron.com/about/partner-info/consultants-uplink>.

This product may be purchased from an authorized Crestron dealer or distributor. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

For assistance with incorporating this product into a design or specification, please contact the Commercial Lighting Consultant Hotline at clcdesign@crestron.com or by calling 888-330-1502.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

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CAD DRAWINGS

