

4-Series® Control Processor for Züm® Lighting Control System



- *Centralized management for Züm® commercial lighting systems*
- *Provides web-based user interface for easy configuration, control, scheduling, and monitoring*
- *Time clock for room lighting automation and sensing behavior*
- *Daisy-chain up to 20 Züm Net load controllers (sold separately) via their built-in Züm Net ports for room-to-room communication*
- *Use with an Ethernet switch (sold separately) to support multiple Züm Net daisy-chains up to 1,000 rooms*
- *Daisy-chain up to 32 Züm Link devices (sold separately) via their built-in Züm Link ports for in-room communication*
- *BACnet™ communication supports control for up to 9,000 BACnet objects*
- *Dedicated Control Subnet*
- *Gigabit Ethernet networking*
- *Enterprise-grade security*
- *Enables integration with other Crestron lighting systems, control systems, touch screens, shading, HVAC, and more*
- *Single-space rack-mountable*
- *Universal 100–240V external power supply*

The Crestron® ZUM-HUB4 enables centralized management for Züm® commercial lighting systems of up to 1,000 rooms with an Ethernet switch (sold separately) across Züm wired, Züm wireless, and external spaces. The device provides a web-based user interface for control. A built-in time clock enables room lighting and occupancy and vacancy sensing automation. The ZUM-HUB4 can also be integrated with other Crestron lighting systems and control systems.

The ZUM-HUB4 is featured in several preassembled lighting control cabinets, such as the ZUML-HUB4-GW, ZUML-HUB4, ZUML-SWPOE-26, ZUML-HUB4-SWPOE-26, ZUML-CENCN-SWPOE-5, and ZUML-HUB4-SWPOE-5.

Züm Net Wired Technology

Züm Net wired technology offers room-to-room communication. Control a room with one Züm Net device ([ZUMNET-JBOX-DALI](#), [ZUMNET-JBOX-16A-LV](#), sold separately), and daisy-chain up to 20 Züm Net devices with [CBL-CAT5E-ZUMNET-P](#) cable. For centralized management of a Züm Wired System, connect the chain directly to a ZUM-HUB4 or multiple chains to an Ethernet switch (sold separately) to support up to 1,000 rooms.

Web-Based Management

The web browser user interface can manage, monitor, and schedule all of the available rooms on the network. Use a laptop computer (not included) to configure devices to work

with the ZUM-HUB4. Active lighting scenes, daylight levels, occupancy detection, and scheduled time clock events are displayed. Errors are shown to facilitate troubleshooting.

Time Clock

A built-in time clock enables automated lighting control based on the time of day. Assign a Room Category (such as Office or Hallway) for consistent control and programming across multiple rooms. The clock allows Day Pattern arrangement for each Room Category, with up to 24 Room States scheduled over a 24 hour period. Different Day Patterns can be defined and assigned to the calendar, which is pre-populated with typical day patterns and a selection of U.S. holidays.

BACnet™ Communications Protocol

Communicate with a Building Management System (BMS) to provide control of fire/life safety, lighting, and other building automation systems. The ZUM-HUB4 supports up to 9,000 BACnet objects.

Crestron XiO Cloud® Service Integration

Use Crestron XiO Cloud functionality for remote commissioning and monitoring of a ZUM-HUB4 control system.

Züm Wireless Integration

Integration with existing Züm Wireless installations is achieved with a [ZUMNET-GATEWAY](#) (not supplied), which connects to the ZUM-HUB4 via Ethernet.

Züm System Integration with Other Crestron Control Systems

In addition to managing rooms equipped with Züm lighting control, the ZUM-HUB4 enables integration with other Crestron systems over an Ethernet connection. Two methods of integration are available:

- **External Rooms:** A virtual room using legacy or conventional Crestron lighting control can be added to the Züm network to be monitored, controlled, and scheduled.^{1,2}
- **Mirrored Rooms:** An external Crestron system controls and monitors a room equipped with a Züm system. Mirrored rooms allow for room control with a Crestron touch screen or handheld remote, as well as integration with shading, climate control, AV, and other equipment.^{1,2}

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Specifications

Device Support and Time Clock

Rooms	1,000 maximum; Züm wired, Züm wireless, and external
External Rooms and Mirrored Rooms	Varies by control system based on hardware capabilities and program complexity of the external processor ¹

Communications

Ethernet	100/1000 Mbps, autoswitching, autonegotiating, autodiscovery, 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, IPv4 or IPv6, Active Directory® authentication, IIS v.6.0 web server
Control Subnet	100/1000 Mbps Ethernet, autoswitching, autonegotiating, autodiscovery, full/half duplex, DHCP server, DNS Server, port forwarding, isolation mode
USB	Supports computer console via front panel USB 2.0 device port

Connectors and Card Slots

MEMORY	(1) SD memory card slot; Accepts one 32 GB SD or SDHC card to enable logging and for troubleshooting purposes
USB	(1) USB Type-A connector, female; USB 2.0 host port; For firmware upgrades
LAN	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port; Connects to the customer's LAN
CONTROL SUBNET	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port; Provides a dedicated local network for Züm Net wireless gateways and wired rooms
NET (24 Y Z G)	(1) 4-pin 3.5 mm detachable terminal block; Connects to a GLS-SIM which facilitate Demand Response when connected to a nonsystem sensor, such as a GLS-ODT-C-NS ; Not used for power
24VDC 2.0A	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2420RU power pack included
G	(1) 6-32 screw; Chassis ground lug
COMPUTER (front)	(1) USB Type-B connector, female; USB 2.0 device port for configuration via computer console (cable included)

Controls & Indicators

PWR	(1) Green LED; Indicates operating power supplied from the included power pack
NET	(1) Amber LED; Not used
MSG	(1) Red LED; Indicates that the ZUM-HUB4 has generated an error message
HW-R	(1) Recessed push button for hardware reset
SW-R	(1) Recessed push button 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 Source Options	Power pack or Cresnet® power supply (connect only one)
Power Pack (included)	Input: 100–240VAC, 50/60 Hz; Output: 2.5A @ 24VDC Model: PW-2420RU
Cresnet Power Usage	15 W (0.625A @ 24VDC) when powered by a Cresnet power supply only
Available Cresnet Power	24 W (1A @ 24VDC) when powered by the included power pack only
Power Consumption	15 W (not including any connected Cresnet devices)

Environmental

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

Enclosure

Chassis	Metal, black finish
Faceplate	Extruded metal, black finish, polycarbonate label overlay
Mounting	Freestanding or 1 RU 19 in. rack-mountable; Adhesive feet and rack ears included

Dimensions

Height	1.70 in. (43 mm) without feet
Width	17.28 in. (439 mm); 19.00 in. (482 mm) with rack ears
Depth	6.47 in. (165 mm)

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Weight

3.1 lb (1.42 kg)

Compliance

Regulatory Model: M201903003

UL® Listed for US & Canada, IC, CE, FCC Part 15 Class B digital device, UL 916, CEC Title 24, ASHRAE 90.1, IECC

Model

ZUM-HUB4

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Included Accessories

PW-2420RU

Desktop Power Pack, 24VDC, 2.5A, 2.1 mm

Available Accessories

For a list of available accessories, visit the [ZUM-HUB4](#) product page.

Notes:

1. SIMPL+® software modules are provided for use in commissioning a Crestron control system to work with the ZUM-HUB4. The software modules run within the control system program and provide virtual connections for all the necessary intersystem control signals. A separate dedicated module is required for each external and mirrored room. Control systems are limited in the number of modules supported, ranging from 0 to 1000 depending on the model. For further assistance, please contact Crestron Commercial Lighting Support via email at clclighting@crestron.com or by calling 855-644-7643.
2. Other Crestron control systems must be commissioned to provide the control logic required to communicate and operate as part of the Zūm network. Once integrated, each external room effectively becomes a part of the Zūm ecosystem.

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The product warranty can be found at www.crestron.com/warranty.

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