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## Athena Light Management Hub (QP5)

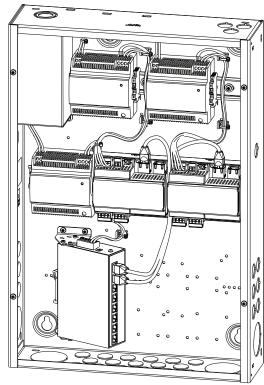
The Athena Light Management Hub (QP5) connects Lutron QS devices to your Athena lighting and shading control system.

#### **Features**

- Designed to control, manage, and monitor Lutron Energi Savr Node units, QS and Pico wallstations, Contract Roller QS shades and QS drapery systems.
- The Athena system brings switching, dimming, motorized window shades, digital ballasts, digital LED drivers, and smart sensors together under one software tool.
- QS link wiring can be T-tapped or daisy-chained.
- Emergency models provide a means to switch pre-defined lighting circuits to their emergency levels during a phase drop out or loss of power.

## **QP5 Hub Capabilities**

- Supports up to two Athena Edge processors with up to two links each that can be individually configured to communicate with:
  - Lutron QS devices
- Includes an 8-port unmanaged PoE switch to easily connect processors and to power additional Athena wireless processors, gateways, and touchscreens.
- Q-POE-PNL can be used to connect additional Athena PoE devices to the processor hub when the wiring distance exceeds 328 ft (100 m).
- Supports both astronomic and time-of-day events to automatically control the lights and shades/draperies in the system.
- Supports integration via Lutron LEAP API and BACnet IP without additional interfaces. Refer to the Athena and myRoom XC API Integration specification submittal (P/N 3691208) at www.lutron.com for more details.



QP5-4L-POE shown

#### Athena Hubs Available:

QP5-1L-POE 1 Link Athena hub\*
QP5-2L-POE 2 Link Athena hub
QP5-2L-POE-EM 2 Link Athena hub with
emergency support
QP5-4L-POE 4 Link Athena hub

#### Athena Hub Accessories:

Ethernet range extender, no configurable link. Does not include an Athena Edge processor or respective software features and functionality.

Q-POE-PNL Ethernet range extender
Q-POE-PNL-EM Ethernet range extender with
emergency support

1L hub link capability differs from 2L and 4L hubs. See Specifications page.

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## **Specifications**

### **Regulatory Approvals**

- cULus<sub>®</sub> Listed (Reference: UL<sub>®</sub> File E42071)
- Emergency models only Evaluated by UL<sub>®</sub> for use in emergency lighting systems in accordance with UL<sub>®</sub> 924 when paired with the LUT-ELI-3PH (UL<sub>®</sub> file E234628)
- CE (non-emergency models only)
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC<sub>®</sub> 2014 300.22(C)(3)
- Meets the Canadian National Building Code plenum requirements for a concealed space used as a plenum within a floor or roof assembly

#### **Internet Connection**

- Providing Athena hub(s) with an Internet Connection is highly recommended for all projects and applications. The following Athena features require an Internet Connection:
  - Lutron dashboard
  - Control of the Athena system via the Lutron App, iOS and Android
  - Automatic firmware update
  - DALI emergency testing functionality
  - Remote diagnostics, service, and support
- This Internet connection is outbound from the Athena processor to the cloud (see the Athena IT Guide at www.lutron.com/AthenalTGuide for details). Lutron can provide temporary internet connection for start-up. See Athena LTE modem specification, P/N 3691159 for more details.

#### **Environment**

- For indoor use only
- 32 °F to 104 °F (0 °C to 40 °C)
- Relative humidity less than 90% non-condensing

## Physical Design

• Enclosure: NEMA Type 1, IP-20 protection 16 U.S. gauge steel

Enclosure: W: 14.39 in (365 mm)
 H: 21.00 in (533 mm)
 D: 4.09 in (104 mm)

• Enclosure with Cover: W: 15.39 in (291 mm)

H: 21.50 in (546 mm) D: 4.14 in (105 mm)

• Weight: 25 lb (11.3 kg) without packaging

### Mounting

Surface-mount only

#### **Ethernet Port Connections**

- Each hub comes with an 8-port unmanaged PoE switch.
- Emergency panels come with 4 PoE injectors.
  - Emergency applications requiring more than 4 wireless processors will need additional emergency (-EM) panel(s).
  - No IT equipment should exist between the wireless processor and the PoE injector.
- Ports on the switch must only be used for:
  - Processors (inside the hub)
  - Athena Clear Connect Gateway-Type X
  - Athena wireless processor
  - Athena touchscreen
  - Connections to other hubs (QP5 or QP6)
  - Connections to network
  - Pre-installed L-POEI-BL injectors (-EM models)
  - Do not use unused ports to connect any other Ethernet connections or PoE equipment other then specified above

Example: QP5-4L-POE has:

8 total ports

- 2 (1 port used per processor)

6 available to connect to other devices

continued on next page...

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Job Number:	

3691148j 3 01.16.25

# Specifications (continued)

## Power

Model	Input Voltage	Output	Input Feed Requirement	Current	Power Dissipation (max)
QP5-1L-POE/ QP5-2L-POE	100–277 V~ 50/60 Hz	Processor: 24 V 1 A per link PoE Switch: 60 W total, 30 W max per port	Normal Feed	2.4 A (100 V~) 2 A (120 V~) 1.4 A (230 V~) 1 A (277 V~)	85 BTUs/hr
QP5-4L-POE	100-277 V~ 50/60 Hz	Processor: 24 V 1 A per link PoE Switch: 60 W total, 30 W max per port	Normal Feed	3.6 A (100 V~) 3 A (120 V~) 2.1 A (230 V~) 1.5 A (277 V~)	125 BTUs/hr
Q-POE-PNL	100–277 V~ 50/60 Hz	PoE Switch: 60 W total, 30 W max per port	Normal Feed	1.2 A (100 V~) 1 A(120 V~) 0.7 A (230 V~) 0.5 A (277 V~)	45 BTUs/hr
QP5-2L-POE-EM	120 V~ 60 Hz	Processor: 24 V 1 A per link PoE Switch: 60 W total, 30 W max per port PoE Injectors: 15.4 W per injector (4 total)	Emergency Feed	5.2 A (120 V∼)	140 BTUs/hr
Q-POE-PNL-EM	120 V~ 60 Hz	PoE Switch: 60 W total, 30 W max per port PoE Injectors: 15.4 W per injector (4 total)	Emergency Feed	4.2 A (120 V~)	100 BTUs/hr

## Configurable Link/Switchleg Capabilities

	Limitations per Processor			
Model	Number of Processors per Panel	Number of QS Links	Number of Ethernet Ports	Emergency Support
QP5-1L-POE	(1) 1-link	1	2	No
QP5-2L-POE	(1) 2-link	2	2	No
QP5-2L-POE-EM	(1) 2-link	2	2	Yes
QP5-4L-POE	(2) 2-link	4	2	No
Q-POE-PNL	0	0	0	No
Q-POE-PNL-EM	0	0	0	Yes

	Limitations per QS Link					
Model	QS Device Count	Wall Controls**	Occupancy Sensor Count	Daylight Sensor Count	Switchleg Count	DMX Interface Limit
QP5-1L-POE	25	50	50	50	256	8
QP5-2L-POE	99	100	100	100	512	16
QP5-2L-POE-EM	99	100	100	100	512	16
QP5-4L-POE	99	100	100	100	512	16

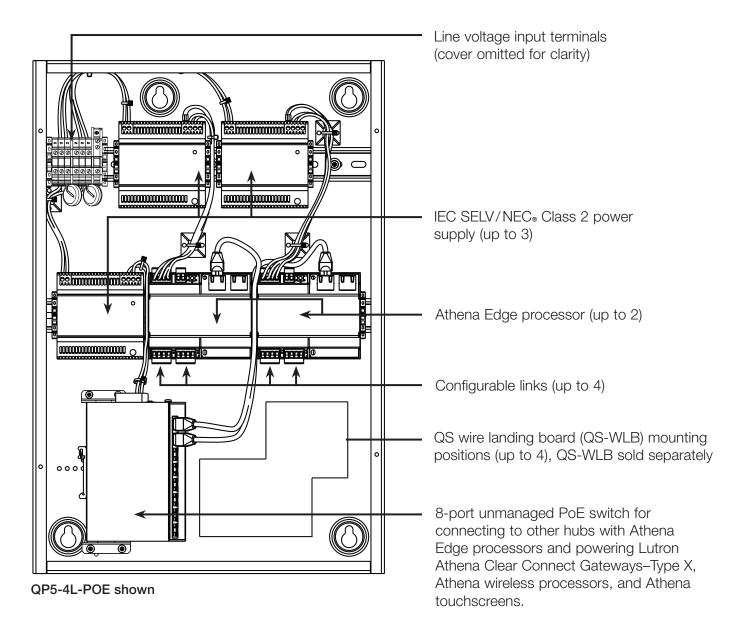
<sup>\*\*</sup> Pico wireless controls, QS keypads, IR.

## **LUTRON** SPECIFICATION SUBMITTAL

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3691148j 4 01.16.25

### **Hub Overview**

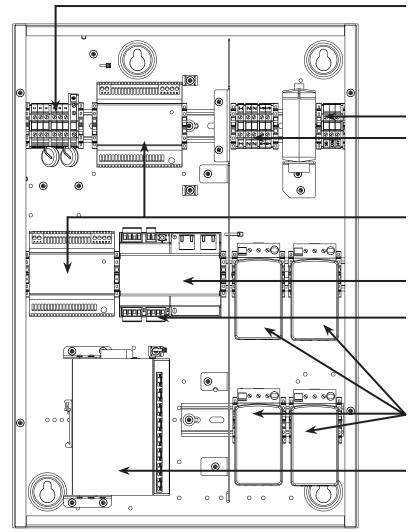


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3691148| 5 01.16.25

## **Hub Overview (Emergency Panels)**



Line voltage input terminals (cover omitted for clarity)

Low-voltage input terminals for LUT-ELI signal Line voltage output to circuit shunts sensing voltage lines (cover omitted for clarity)

IEC SELV/NEC® Class 2 power supply

Athena Edge processor

Configurable links (up to 2)

4 PoE Injectors (L-POEI-BL)

8-port unmanaged PoE switch for connecting to other hubs with Athena Edge processors and powering Lutron Athena Clear Connect Gateways–Type X, Athena wireless processors, and Athena touchscreens.

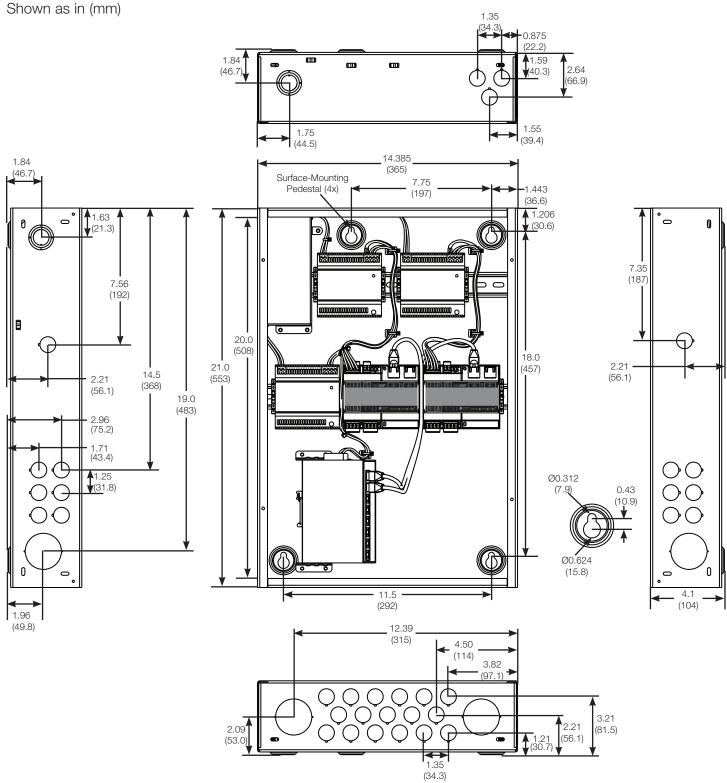
QP5-2L-POE-EM shown

**LUTRON** SPECIFICATION SUBMITTAL

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3691148j 6 01.16.25

## **Dimensions**



## QP5-4L-POE shown

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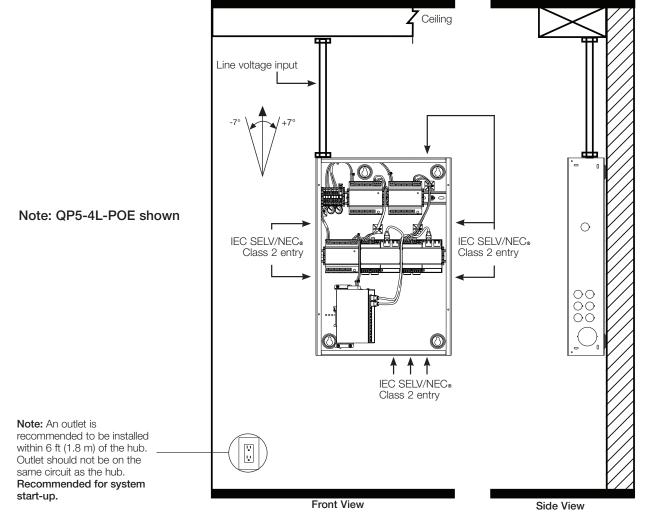
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## Mounting and Conduit Entry

- Surface-mount indoors.
- Hub generates heat. Mount only where temperature will be 32 °F to 104 °F (0 °C to 40 °C).
- This equipment is air-cooled. Do not block vents or warranty will be void. A minimum of 12 in (305 mm) of unobstructed space is required in front of and below the hub for ventilation.
- Water damages equipment. Mount in a location where the hub and processors will not get wet.
- Mount in an accessible and serviceable location.
- Mount within 7° of true vertical.
- An outlet is recommended to be installed within 6 ft (1.8 m) of the hub for servicing. Outlet should not be on the same circuit as the hub.
- Reinforce wall structure for weight and local codes.

Hub	Weight, without packaging
All models	25 lb (11.3 kg)

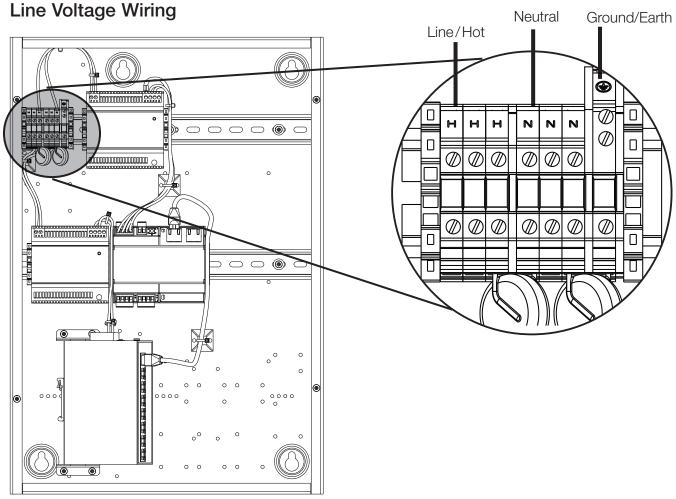
- Mount hub so line (mains) voltage is at least 6 ft (1.8 m) from sound or sensitive electronic equipment.
- A Light Management Hub (QP5) may be mounted above, below, or beside other Light Management Hubs (QP5 or QP6). Maintain at least 5 in (127 mm) of spacing between installed hub and other equipment, and follow the NEC<sub>®</sub> guidelines.



**LUTRON** SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

3691148j 8 01.16.25



QP5-2L-POE shown

#### **Notes**

- Line voltage must enter hub in top left corner as shown above
- For non-emergency applications, Lutron requires a 100-277 V~ normal feed. For Emergency applications, Lutron requires the use of the -EM model panel and the panel requires a 120 V~ emergency feed.
- Lutron recommends no more than four Light Management Hubs are powered by a dedicated single derated 20 A circuit
- Run wiring so line (mains) Class 1 voltage is separate from IEC SELV/NEC<sub>®</sub> Class 2 wiring

#### **LUTRON** SPECIFICATION SUBMITTAL

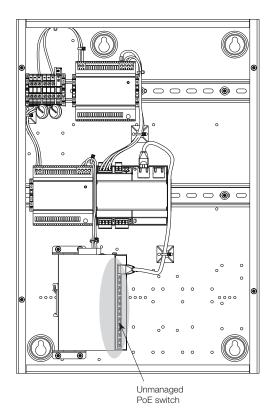
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3691148| 9 01.16.25

## Athena Hub Ethernet Link Wiring

#### **Notes**

- For Emergency models only When wiring Ethernet for emergency applications, the PoE switch should be used and connected to each of the PoE injectors within the panel. From the PoE injector the Ethernet cable must be connected directly to the Athena Clear Connect Gateway Type X or an A-RF2. No networking gear can exist between the PoE injector and the gateway for emergency to function correctly.
- Use Cat5e minimum cable for all system Ethernet link connections.
- The wiring between hubs and gateways is considered SELV/ NEC<sub>®</sub> Class 2; do not run in the same conduit as line (mains) voltage wiring.
- Processors cannot be daisy-chained. Each must be connected to the internal Ethernet switch. The second Ethernet connection is used for service or diagnostics only.
- All system Ethernet wiring must comply with IEEE 802.3 standards.
- Wiring distance for any single system Ethernet link "wire segment" is 328 ft (100 m) max. Use Lutron's Q-POE-PNL or unmanaged Ethernet switches for each additional 328 ft (100 m).
- For more information about connecting a Athena system to a corporate or building-wide network, please refer to the Athena IT Guide (P/N 040453) at www.lutron.com/AthenalTguide



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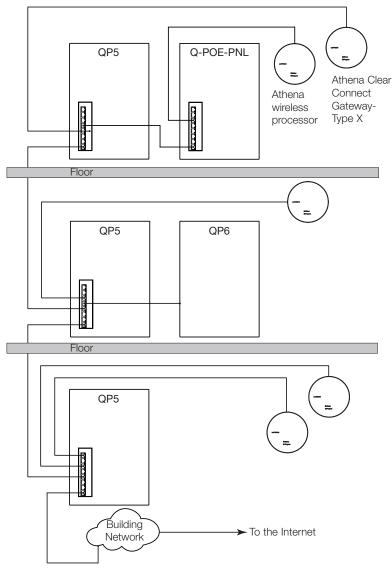
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3691148j 10 01.16.25

## Athena Hub Ethernet Link Wiring (continued)

## Typical System Ethernet Wiring Riser Diagram (Non-Emergency)



Note: Refer to the IT Guide at www.lutron.com/AthenalTguide for more information for managed switch configuration requirements.

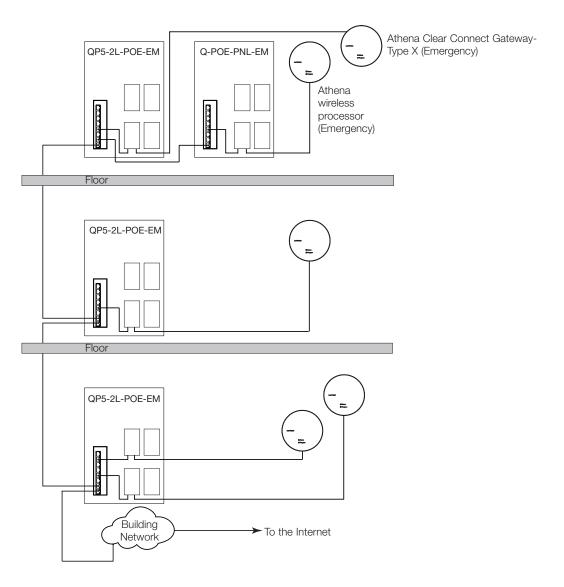
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Job Name:	Model Numbers:
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3691148j 11 01.16.25

## Athena Hub Ethernet Link Wiring (continued)

## Typical System with CCX Emergency Loads Ethernet Wiring Riser Diagram



Note: Refer to the IT Guide at www.lutron.com/AthenalTguide for more information for managed switch configuration requirements.

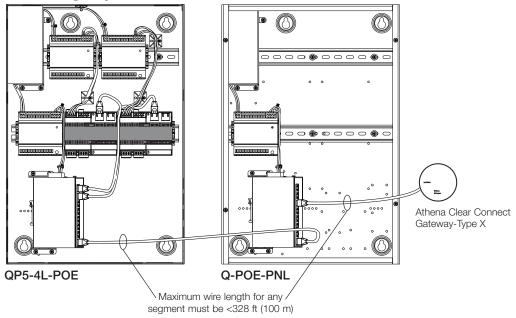
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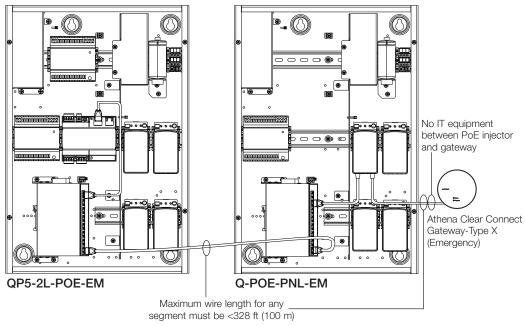
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## **Ethernet Wiring**

### Non-Emergency



#### **Emergency**



#### Notes

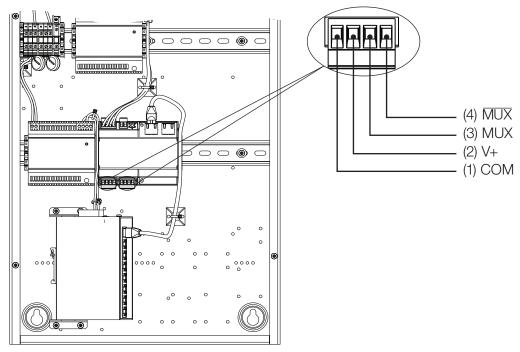
- For distances >328 ft (100 m) use a Lutron Q-POE-PNL or either a IEEE 802.3af-2003 or 802.3at-2009 compliant PoE extender (not by Lutron) or an unmanaged PoE switch (not by Lutron).
- One Q-POE-PNL is required for every additional 328 ft (100 m).
- All connections between PoE switch and the Type X gateways, Athena wireless processors, and Lutron touchscreens should be Cat5e minimum.
- An emergency panel (-EM models) must be used along with internal L-POEI-BL injectors to provide emergency support.

#### **LUTRON** SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
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3691148j 13 01.16.25

## Configurable Link Wiring: QS Link



QP5-2L-POE shown

Maximum Link Length	Wire Gauge	Available from Lutron in one cable	Alternate Wiring
500 ft	Power (terminals 1 and 2) 1 pair 18 AWG (1.0 mm²)  Data (terminals 3 and 4) 1 pair 22 AWG (0.5 mm²)  twisted and shielded	GRX-CBL-346S GRX-PCBL-346S	Power Connections: use two 18 AWG (1.0 mm²) stranded conductors
(152 m)			Data connections: use Belden Cable #9461 (two 22 AWG (0.5 mm²) twisted shielded pair)
2000 ft	Power (terminals 1 and 2) 1 pair 12 AWG (4.0 mm²)  Data (terminals 3 and 4) 1 pair 22 AWG (0.5 mm²)  twisted and shielded	GRX-CBL-46L GRX-PCBL-46L	Power Connections: use two 12 AWG (4.0 mm²) stranded conductors
(609 m)			Data connections: use Belden Cable #9461 (two 22 AWG (0.5 mm²) twisted shielded pair)

#### **Notes**

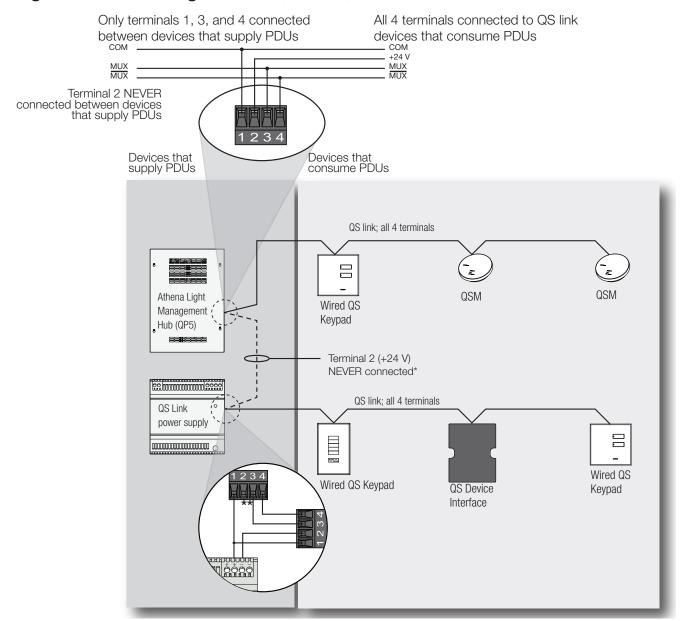
- Link communication uses IEC SELV/NEC<sub>®</sub> Class 2 low-voltage wiring.
- Follow all local and national electrical codes when installing IEC SELV/NEC<sub>®</sub> Class 2 wiring with line voltage/mains wiring.
- Terminals will accept:
  - One 22 AWG to 12 AWG (0.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup>) wire
- Up to two 18 AWG (1.0 mm<sup>2</sup>) wires
- The total wire length of a link must not exceed 2000 ft (609 m).
- The Athena Light Management Hub provides 33 power draw units (PDUs) on each QS Link. For more information, see "Power Draw Units on the QS Link" (Lutron P/N 369405) at www.lutron.com
- QS Link Wiring can be T-tapped or daisy-chained.
- Shield wire will not land on the processor, it should be isolated from ground and all other connections.

### **LUTRON** SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
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3691148j 14 01.16.25

## Configurable Link Wiring: QS Link (continued)



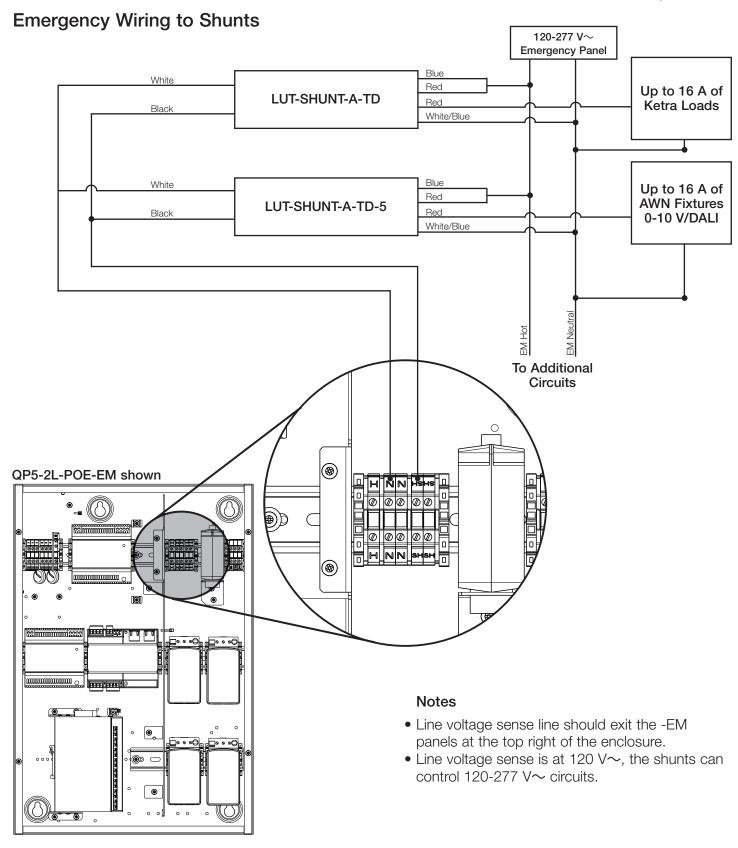
### **QS Link Wiring Rules**

- \* Terminal 2 (+24 V) should NEVER be connected between devices that supply PDUs.
- \*\* For QS Link power supply wiring connection details, refer to the installation instructions for the specific power supply model being used.

#### **LUTRON** SPECIFICATION SUBMITTAL

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3691148j 15 01.16.25

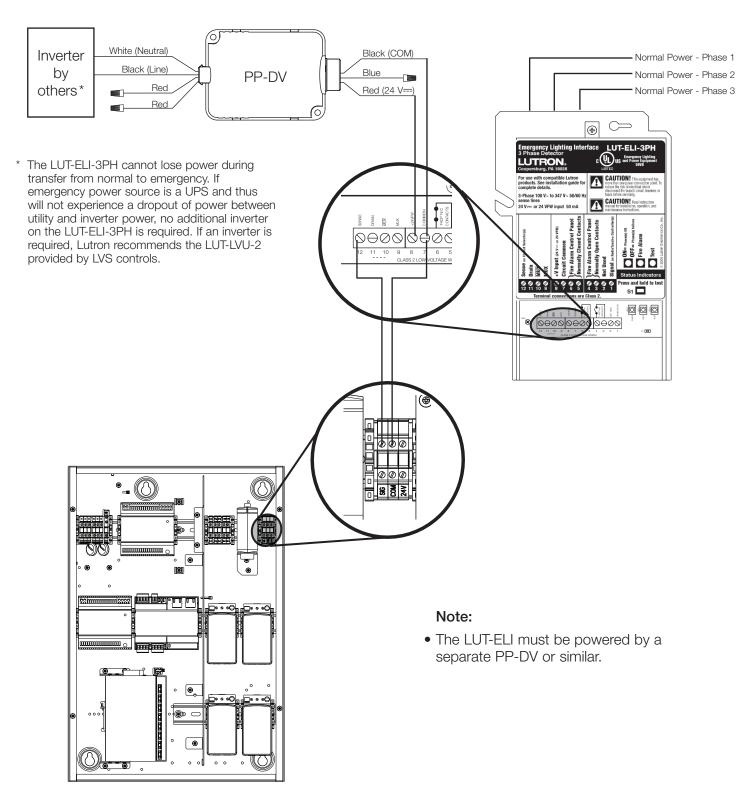


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3691148j 16 01.16.25

## **Emergency Wiring to LUT-ELI**



**LUTRON** SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
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3691148j 17 01.16.25

#### Software

#### **User Access**

 myLutron username and password required for user access

#### **OpenADR Compliant**

 OpenADR 2.0b compliant when used with LUT-Q-OPNADR-CPN8064

#### **Lutron App**

- System processors require an internet connection
- The Athena system can have up to 10 simultaneously connected mobile app clients
- Compatible with iOS® and Android®
- Requires iOS<sub>®</sub> 13 or newer for Apple<sub>®</sub> devices and Android 12 or newer for Android<sub>®</sub> devices

## **Lutron Designer**

Requires Lutron Designer 24.2 or higher for -EM models

#### **Software Capabilities**

#### **DALI® Emergency Testing**

- System capability that enables the Athena processor to schedule, manage, and report test results of DALI<sub>®</sub>-2 certified emergency loads connected to the QSN-2DALUNV-D/S modules.
- Processor must be connected to the internet to obtain the test results report

### **Lighting Control**

- Monitor current status of areas, scenes, and zones
- Activate lighting scenes
- Adjust lighting zone levels
- Modify lighting zone levels in area scenes
- Control the intensity and color of Ketra fixtures
- Adjust saturated color and vibrancy of Ketra fixtures

#### **QS Shade Control**

- Monitor current status of shade groups and drives
- Activate shade presets
- Adjust shade levels

## Scheduling

 Events can be scheduled to occur at fixed times or relative to sunrise/sunset and can be programmed to occur once or to be reoccurring

#### Load Shed/Demand Response

- Participate in load shed/demand response programs offered by local utility companies
- Apply a load shed reduction to the system, thereby reducing the building's lighting power usage

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3691148j 18 01.16.25

## **Athena Security Statement**

Lutron takes cybersecurity very seriously. We actively monitor the threat landscape and take a proactive approach to security and privacy, continuously working to update and enhance our systems and processes.

At Lutron, we call our approach to cybersecurity "Secure Lifecycle", and we would like to present the following steps we take to protect your security and privacy:

- Security by Design. When building a new system, Lutron utilizes a dedicated security team to ensure best practices are implemented. Security is built in. It is not an afterthought or an add-on.
- Third-Party Validation. Security is complicated. Lutron has a dedicated team of internal experts, but we also leverage external experts to double-check our work, and to make security recommendations.
- Continuous Monitoring and Improvements. Security is a constantly moving target. Lutron uses a dedicated security team to continuously monitor for potential threats and, when needed, send out security patches to update installed systems.
- Ongoing Support. Lutron has the resources you need to answer questions about security when they arise

We incorporate a variety of security features into our product designs. These features include recommendations from the National Institute of Standards and Technology (NIST) among others, and they are aimed at meeting our secure lifecycle protections. While we do not publish a comprehensive list of our security features, the following list is a small example of some of the techniques employed in our system designs for Athena Processors, Light Management Hubs, Clear Connect – Type X Gateway devices and associated services (such as mobile applications and cloud resources):

- 1. Secure and authenticated remote access with unique keys for every Athena system
- 2. A secure hardware element ("chip") on all Athena processors and Clear Connect Type X Gateway to guard the keys used for secure communication and authentication
- 3. Enforcing industry-standard encrypted communication and techniques for our integration protocols to the highest extent possible. Any integrated third-party components or systems should be evaluated independently.
- 4. Secure commissioning all communication between the system programming software tool/app and the processors is encrypted and authenticated. Programming a system requires permission to access that system.
- 5. Security updates are pushed out automatically to the lighting system for urgent security patches. Lutron is committed to one year of security support from system start-up date.
- 6. Use of industry-standard techniques for cloud-based integrations, such as OAuth2.0
- 7. Signed processor firmware to ensure a firmware update is authentically from Lutron.

If you have additional questions or would like to make a vulnerability disclosure to Lutron, please contact Lutron's 24/7 Technical support Line at 1.844.LUTRON1 or email us at support@lutron.com.

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Job Name:	Model Numbers:
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## Compatible Models - North America

#### Load controls

- QSN-4T5-120-D
- QSN-2DALUNV-D
- QSN-4S8-120-D
- QSN-4A5-S
- QSN-4A5-120-D
- QSN-2ECO-120-D
- QSN-4S16-S
- QSN-4T16-S
- QSN-2ECO-S
- QSE-CI-DMX
- QSN2-4T20-S
- QSN2-4T16-S-347
- QSN2-4S20-S
- QSN2-2ECO-S
- QSN-1DALUNV-D
- QSN-2DALUNV-S

#### Wall controls

- PJ2-\*
- PX-\*
- QSWA-\*
- QSWAS-\*
- QSWE-\*
- QSWS2-\*
- QSWS2-KS-\*
- QWP-\*
- Q-TOUCH5-WH

#### **Shades**

- Contract Roller Shades
- Sivoia QS Shades

#### Sensors

- GRX-IRPS
- EC-DIR\*
- GRX-CES\*
- LOS-\*
- LRF2-OCR2B\*
- LRF2-DCRB\*
- LUT-WS\*
- QSM2-\*

#### Accessories

- LUT-19AV-1U
- LUT-5x10-ENC
- I FG\*
- LTR-\*
- LPFP-\*
- L-PED\*
- PICO-\*

#### **Power Interfaces**

- TVI-LMF-2A
- -C5-\*
- PHPM-\*
- GRX-TVI

### **Integration Interfaces**

- LUT-Q-OPNADR-CPN8064
- QSE-CI-NWK-E
- QSE-IO
- QSE-CI-WCI

## **Emergency**

- LUT-ELI-3PH (for QSN-\* load control panels)
- LUT-SHUNT-A-TD (for Ketra loads) \*\*
- LUT-SHUNT-A-TD-5 (for DALI and 0-10V fixtures, controlled by AWN)\*\*
- LUT-SHUNT-FM (for Athena wireless nodes) \*\*

#### **Power Supplies**

- QSPS-\*

#### Cable

- QS-CBL-\*
- GRX-CBL-\*
- GRX-PCBL-\*

#### In Fixture Controls

- A-WN-D01-RF-\*
- A-WN-D01-OCC-\*
- DFC-OEM-DBI

#### **LUTRON** SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

<sup>\*</sup> Designates additional model number characters that may vary depending on the specific model chosen.

<sup>\*\*</sup> Sold by others.

## Compatible Models - 220-240 V∼ Regions

#### Load controls

- QSNE-4A5-230-D
- QSNE-4T10-230-D
- QSN-1DALUNV-D
- QSN-2DALUNV-D
- QSE-CI-4M-D
- QSNE-4S5-230-D
- QSE-CI-DMX

#### Wall controls

- PXY-\*
- PX-\*
- QSWA-\*
- QSWAS-\*
- QSWE-\*
- QSWS2-\*
- QSWS2-KS-\*
- QWP-\*
- Q-TOUCH5-WH

#### Shades

- Contract Roller Shades
- Sivoia QS Shades

#### Sensors

- GRX-IRPS
- EC-DIR\*
- GRX-CES\*
- LOS-\*
- LRFx-OCR2B\*
- LRFx-DCRB\*
- LUT-WS\*
- QSMx-\*

#### **Accessories**

- LUT-19AV-1U
- LUT-5x10-ENC
- LFG\*
- LTR-\*
- I PFP-\*
- L-PED\*
- PICO-\*

#### **Power Interfaces**

- C5-\*

#### **Integration Interfaces**

- QSE-CI-NWK-E
- QSE-IO
- QSE-CI-WCI

#### **Emergency**

LUT-ELI-3PH (for QSN-\* load control panels)

### **Power Supplies**

- QSPS-\*

#### Cable

- QS-CBL-\*
- GRX-CBL-\*
- GRX-PCBL-\*

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#### **LUTRON** SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

<sup>\*</sup> Designates additional model number characters that may vary depending on the specific model chosen.