Athena Clear Connect Gateway – Type X

The Athena Clear Connect Gateway – Type X is a ceiling-mounted device that integrates Clear Connect – Type X devices with Lutron's existing Clear Connect – Type A and QS devices through an Athena wired or wireless processor.

The Athena Clear Connect Gateway – Type X enables compatible Lutron control systems to communicate with up to 100 Clear Connect – Type X Athena wireless nodes.

Features

- Must be powered by an IEEE 802.3af-2003 or 802.3at-2009 compliant Power over Ethernet (PoE) supply, Lutron models L-POEI-G-BL or Q-POE-PNL or by others (sold separately).
- Connects to the network via an Ethernet connection.
- Local device operation will continue to function if internet connection is lost.
- Provides secure system access from anywhere in the world using the Lutron app if connected to the Lutron cloud via an internet connection.
- Supports integration via Lutron LEAP API and BACnet IP without additional interfaces. Refer to Athena API Integration specification submittal P/N 3691208 at www.lutron.com/europe for more details.
- For full Athena system capabilities see P/N 3691298 on www.lutron.com/europe

Models Available:

- QE-RF

Job Name:	Model Numbers:
Job Number:	

Specifications

Regulatory Approvals

- CE
- UKCA certified
- ETSI 300-328 compliant
- CB report
- RoHS
- REACH

PoE Power

- 48 V=== 100 mA (IEEE 802.3af-2003 or 802.3at-2009 compliant PoE supply)
- If there are designated emergency fixtures within the gateway's subnet, power for the wireless processor's PoE must be supplied via normal-only feed and not using an uninterruptible power supply or generator.
- The gateway is an IEEE 802.3af compliant Class 1 device; typical 1.5 W (max 4.0 W)
- Compatible power supplies L-POEI-G-BL and Q-POE-PNL available for purchase separately - fully compliant to IEEE 802.3af (max 15.4 W)

Environment

- Operating temperatures 0 °C to 40 °C
- Relative humidity: 0% to 90% non-condensing
- For indoor use only

ESD Protection

- Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.

Surge Protection

- Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice for Surge Voltages in Low-Voltage AC Power Circuits.

Power Failure

- **10-year power failure memory:** Should the power be interrupted, the gateway will return to its previous state prior to the interruption when power is restored.

Mounting

- The gateway can be recess-mounted or wall-mounted (using the included recess bracket) or the junction box bracket. When mounting on a 102 mm x 102 mm junction box, a mud ring (not supplied) must be used.
- The gateway can also be shelf-mounted using the L-SMNT-WH (sold separately).
- The gateway must be mounted 2 m away from wireless interference sources like microwaves, Wireless Access Points (WAP), etc.
- Do not install the gateway in metallic enclosures. Installation near metal, other than a junction box, may reduce RF range. The gateway should be at least 305 mm away from metal objects.
- Do not install the gateway above metal ceilings or tiles with metal backing.
- The gateway should be mounted in the middle of non-metal ceiling tile or drywall, visible from inside the space.
- Metal ceiling tile grids must have a ≥3 mm gap of non-metal material which extends the entire length of the tile on at least one edge. This is often achieved by foam spacers that are used to prevent tile-to-tile rattling.
- Metal ceiling tile grids which are continuous (with no gap) or those that are interlocked, must have a total surface area that is less than 81 m^2 for each section. The overall space can be larger as long as there are non-metal sections bordering or intersecting the metal sections.

Job Name:	Model Numbers:
Job Number:	

Specifications *(continued)*

Wiring

- Use Cat5e minimum cable. Maximum length is 100 m from the router to the processor. Each gateway needs to have a home run Ethernet connection back to the PoE supply.

- PoE wiring must be kept internal to the building. Do not run PoE wiring outdoors.

Accessory Parts

Model Number	Description	Page of Product Diagram
L-CMNT-WH	Recess-mount adapter (included)	7
L-JMNT-WH	Junction box mount adapter (included)	7
L-SMNT-WH*	Shelf-mount adapter	5
L-POEI-G-BL	PoE injector with U.S., UK, Europe, Australia, and India plug adapters, 1.8 m right-angle and 0.9 m Ethernet cable included	5

*　Needs right-angle Ethernet cable similar to the one included in the L-POEI-G-BL.

Job Name:	Model Numbers:
Job Number:	

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 Technical Support Line at +44 020 7702 0657 (UK & Europe) or email us at eatechnicalsupport@lutron.com
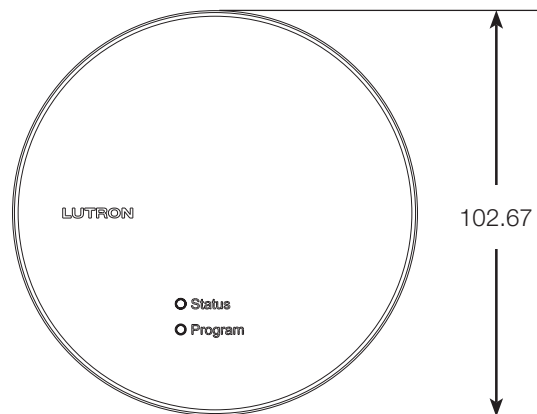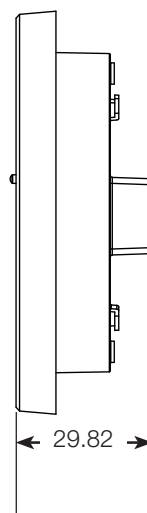
Job Name:	Model Numbers:
Job Number:	

Dimensions

All dimensions are shown as: mm

Front View

102.67

Side View

29.82

Back View

Athena
QE-RF
48 V⎓ 100 mA
lutron.com
+1.844.LUTRON1

Assembled | Ensamblado | Assemblé | Mexico | México | Mexique
EEA Contact Address: UK Contact Address:
Lutron NL B.V.   Lutron EA Limited
PO Box 15862   3rd Floor, 51 Lime Street
1001 NJ Amsterdam   London EC3M 7DQ
Netherlands (Importer)   England (Importer)

Ethernet MAC: ab:12:cd:34:ef   FCC ID: XXXXX
Serial #: 00000000   IC: XXXX-XXXXXXX
                                  HVIN: XXXXXX
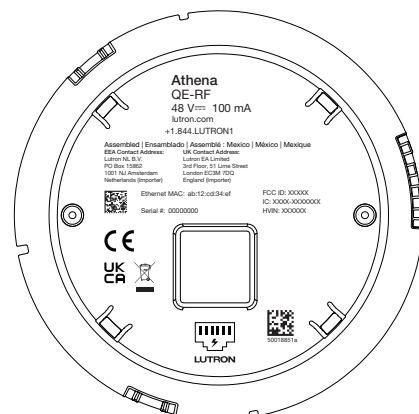
PoE Injector (sold separately): L-POEI-G-BL

Note: Comes with U.S., UK, Europe, Australia, and India plug adapters.

Front View

86

Bottom View

IN   OUT

31.9

50.2

Back View

PUSH
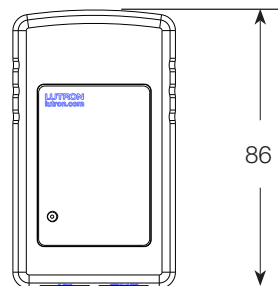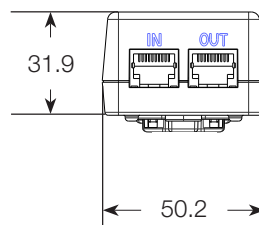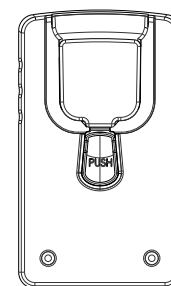
Shelf-mount Adapter (sold separately): L-SMNT-WH*

Front View
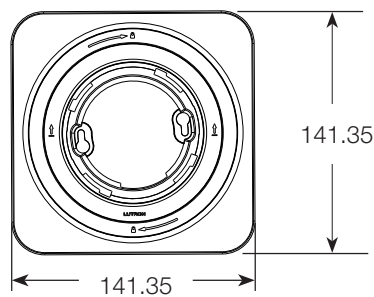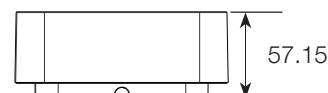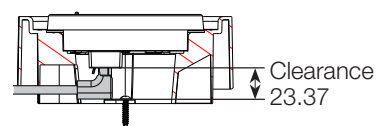
141.35

141.35

Side View

57.15

Detail View

Clearance
23.37

* Needs right-angle Ethernet cable similar to the one included in the L-POEI-G-BL.

Job Name:	Model Numbers:
Job Number:	

Mounting

All dimensions are shown as: mm

Recess-mount Adapter *(included)*
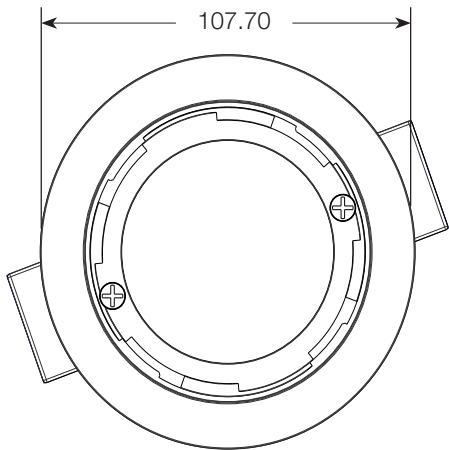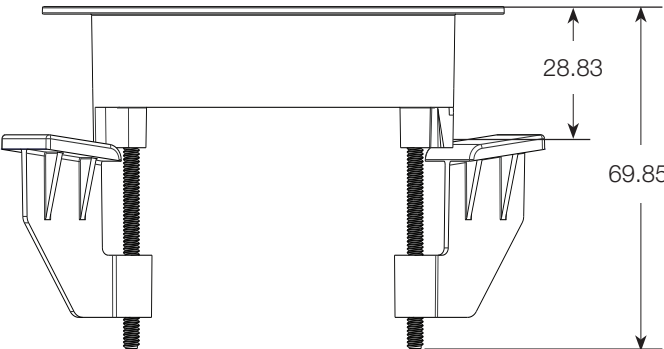
Front View

107.70

Side View

28.83

69.85

Junction Box Mount Adapter *(included)*

Front View

104.06
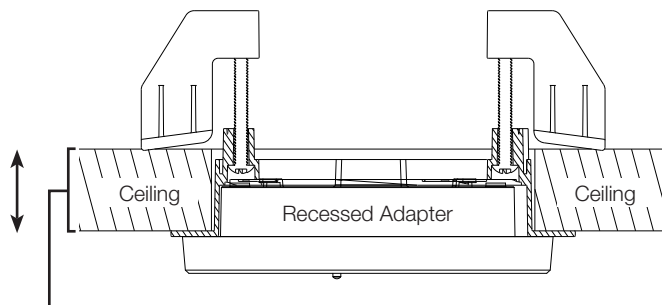
Side View

20.32
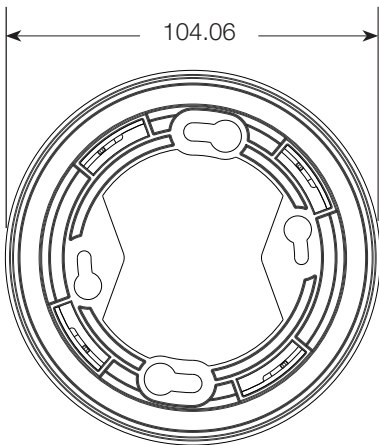
Job Name:	Model Numbers:
Job Number:	

Mounting (continued)*

Recess/Wall-Mount: L-CMNT-WH

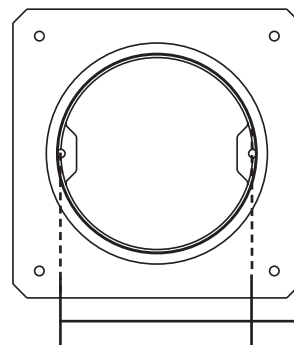Ceiling thickness
Min: 7.62 mm
          to
Max: 30.48 mm
Requires a 83 mm to 89 mm opening

Surface-Mount: L-JMNT-WH
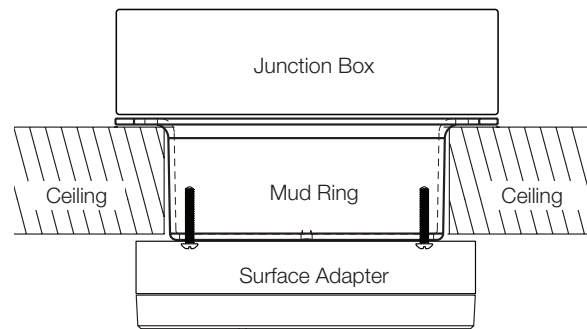
Use appropriate mud ring (not supplied by Lutron) for ceiling thickness. Mud ring is not included with any models.

Use mud ring with hole spacing shown here.
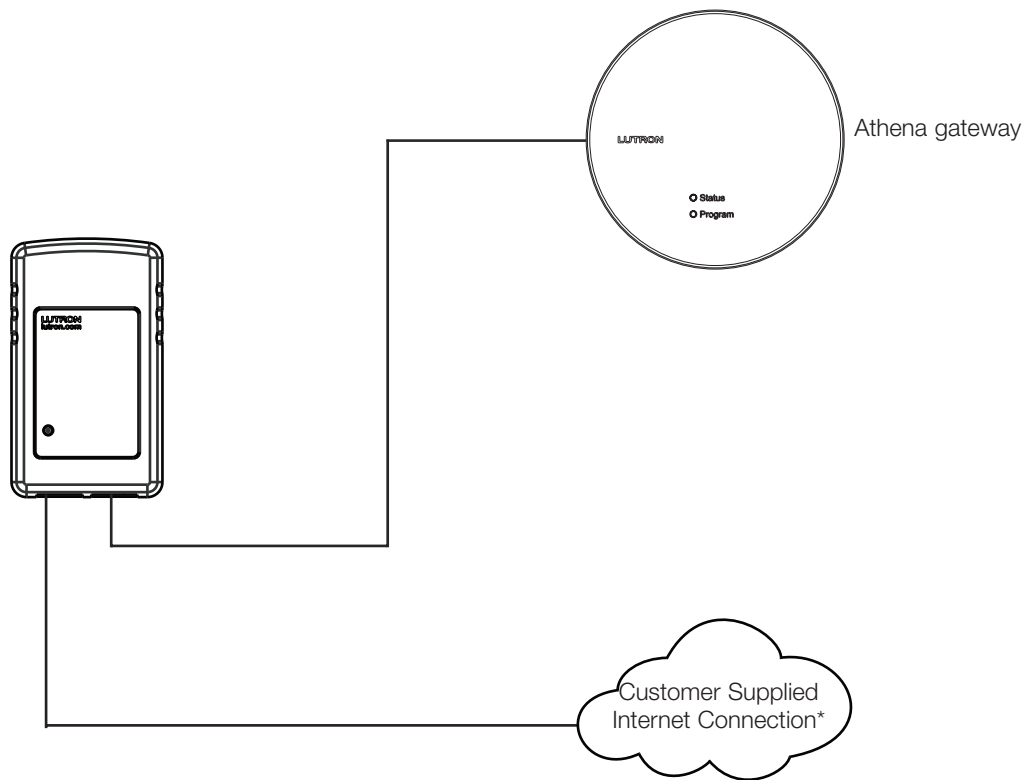(Mud ring not included with any models)

70 mm

* Both the recess-mount and surface-mount adapters ship with the gateway.

Job Name:	Model Numbers:
Job Number:	

3691295a 8 10.08.24

Single System Riser Diagram
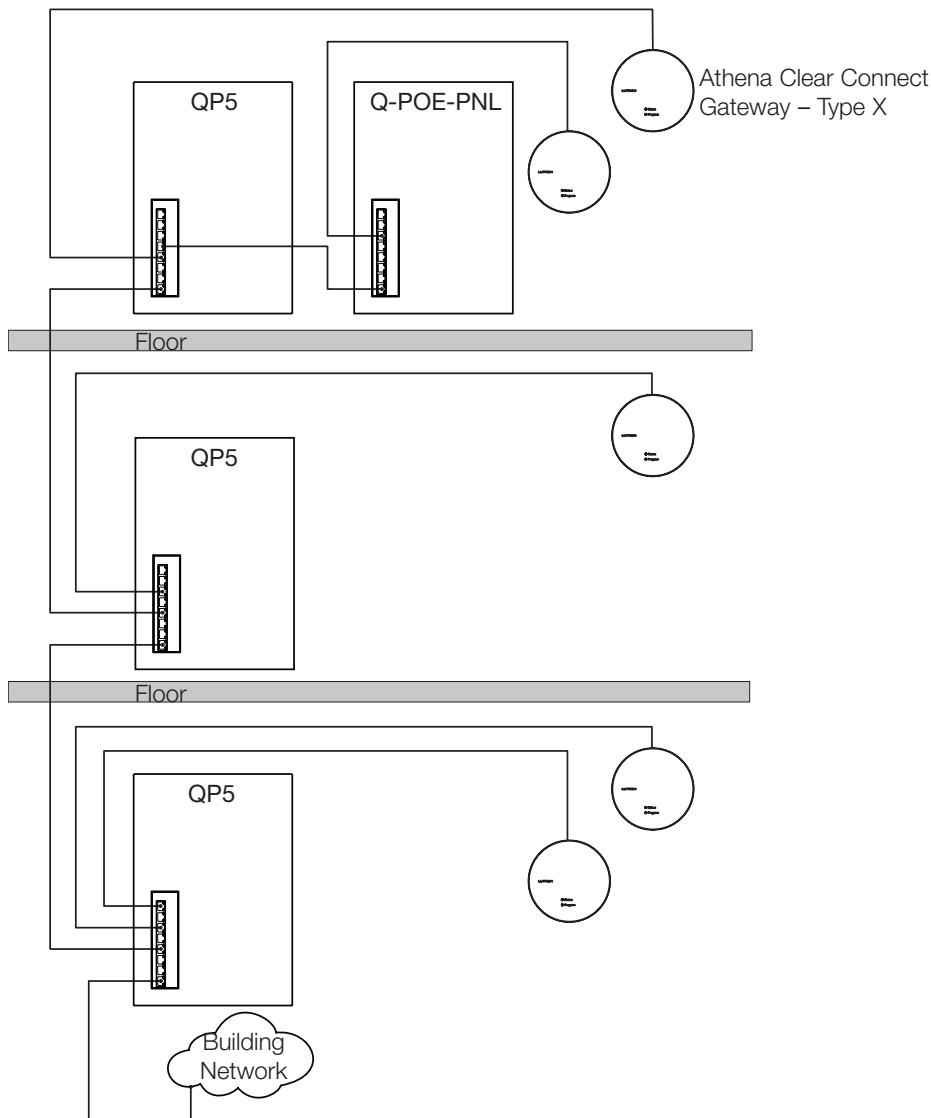
Athena gateway

Customer Supplied
Internet Connection*

* Internet connection not required for basic system functionality, but required for Lutron app, Lutron dashboard, and other software features.

Job Name:	Model Numbers:
Job Number:	

3691295a 9 10.08.24

System Riser Diagram

Notes:

- Refer to the IT Guide at www.lutron.com/ITguide for more information on networking requirements.
- Internet connection not required for basic system functionality, but is required for the Lutron app, dashboard, and other software features.

Job Name:	Model Numbers:
Job Number:	

Choose a Location to Install

Choose a location to mount the gateway so that it is centrally located in relationship to the other Clear Connect – Type X devices. Each Clear Connect – Type X device must be within 23 m of a centrally located gateway. A minimum of two or more Clear Connect – Type X devices must be within 6 m of the gateway. The gateway must be mounted 2 m away from wireless interference sources like microwaves, Wireless Access Points (WAPs) etc. Installation near metal, other than a junction box, may reduce RF range. The gateway should be at least 305 mm away from metal objects. PoE wiring must be kept internal to the building. Do not run PoE wiring outdoors or install the wireless processor in metallic enclosures.
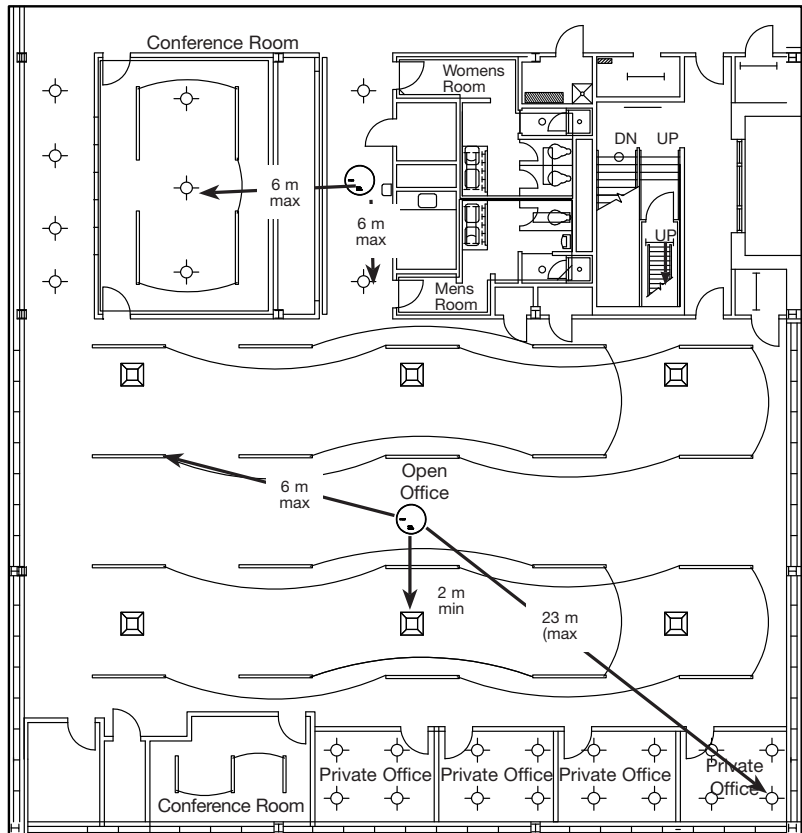
Fixture Legend

- ⦶ = Downlight with Athena wireless node
- ▭ = Linear fitting with Athena wireless node
- ▨ = Athena QP5-2L-POE Hub
- ⊙ = Athena gateway
- ▨ = Wireless Access Point