Clear Connect Gateway – Type X

The Clear Connect Gateway – Type X is a ceiling-mounted device that integrates Ketra loads and HomeWorks Sunnata RF devices with Lutron's existing Clear Connect – Type A and QS devices through the wired QSX Processor.

The Clear Connect Gateway – Type X enables compatible Lutron control systems to communicate with up to 100 total wireless, Clear Connect – Type X devices.

- Provides coverage up to 10,000 ft^2 (929 m^2). Clear Connect Gateway – Type X cannot span multiple floors.
- Must be powered by an IEEE 802.3af-2003 or 802.3at-2009 compliant Power over Ethernet (PoE), supply, Lutron model Q-POE-PNL or by others.
- The Clear Connect Gateway – Type X is compatible with the following devices:

  Ketra lighting:
  – A20
  – S30, S30 Track
  – S38, S38 Track
  – G2 via N3
  – D3
  – D4R
  – LS0 Lightbar Slim
  – Visit www.ketra.com for a complete list of compatible models

  HomeWorks Sunnata RF controls:
  – HRST-PRO LED+ dimmers
  – HRST-8ANS switches
  – HRST-W keypads

  Note: The gateway requires at least one HomeWorks QSX processor. Refer to the installation instructions of the HomeWorks QSX processor for setup and other information. A maximum of 16 total gateways and wired processors can be on one system. Requires Lutron Designer software 16.0 or later. Support for 100 devices per gateway requires Lutron Designer 16.7 or newer.

Clear Connect Gateway – Type X

Specifications

Model Number	HQP7-RF
PoE Power	48 V⎓ 100 mA (IEEE 802.3af-2003 or 802.3at-2009 compliant PoE, supply)
Regulatory Approvals	cULus, FCC, IC, NOM, IFTEL
Environment	Ambient operating temperature: 32 to 104 °F (0 to 40 °C) 0% to 90% humidity, non-condensing. Indoor use only.
Heat Generated	14 BTU/hr – typical
Communications	The Gateway communicates through a wireless mesh network covering a total of up to 10,000 ft^2 (929 m^2).
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 on Surge Voltages in Low-Voltage AC Power Circuits.
Power Failure	10-year power failure memory: Should power be interrupted, the Gateway will return to its previous state when power is restored.
Mounting	The Clear Connect Gateway – Type X can be surface or recess mounted. When mounting on a 4x4 junction box, a mud ring (not supplied) must be used. Each Clear Connect – Type X device must be within 75 ft (22.86 m) of a central located RF Gateway. Each Clear Connect – Type X device should have two or more non-battery powered Type X devices within 25 ft (7.6 m) of another compatible Clear Connect – Type X device. Clear Connect Gateway – Type X must be mounted 5 ft (1.5 m) away from wireless interference sources like microwaves, Wireless Access Points (WAP) etc. Do not install the gateway in metallic enclosures.
Wiring	Use Cat5e minimum cable. Maximum length is 328 ft (100 m). Each gateway needs to have a home run Ethernet connection back to the PoE switch.
Warranty	www.lutron.com/TechnicalDocumentLibrary/HomeWorks_Warranty.pdf

Clear Connect Gateway – Type X

HomeWorks QSX System 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 HomeWorks QSX processors, Clear Connect – Type X Gateway devices and associated services (such as mobile applications and cloud resources):
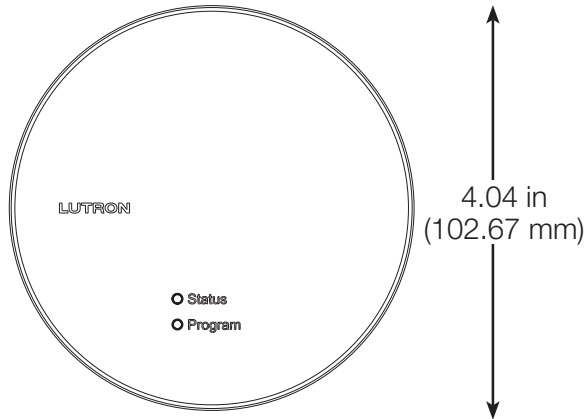
1. Secure and authenticated remote access with unique keys for every HomeWorks QSX system.

2. A secure hardware element ("chip") on all HomeWorks QSX 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 support@lutron.com
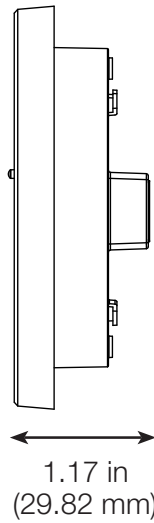
Clear Connect Gateway – Type X

Dimensions

Front View

LUTRON

○ Status
○ Program

Side View

Back View

HomeWorks
HQP7-RF
48 V⎓ 100 mA
lutron.com
+1.844.LUTRON1

Assembled | Ensamblado | Assemblé : U.S.A. | E.U.A. | É.-U.
This device complies with part 15 of the FCC Rules. Operation is
subject to the following two conditions: (1) This device may not cause
interference. (2) This device must accept any interference, including
interference that may cause undesired operation.

Ethernet MAC: ab:12:cd:34:ef   FCC ID: JPZ0123
Serial #: 00000000   IC: 2851-JPZ0123
                                    HVIN: ATWP01

c ⓤ us LISTED   1234
I.T.E. E568842   5678

LUTRON

4.04 in
(102.67 mm)

1.17 in
(29.82 mm)

Mounting*

Recess-Mount

Ceiling   Ceiling
        Recessed Adaptor

Ceiling thickness
Min: 0.30 in (7.62 mm)
        to
Max: 1.20 in (30.48 mm)

Surface-Mount

Junction Box

Ceiling   Mud Ring   Ceiling
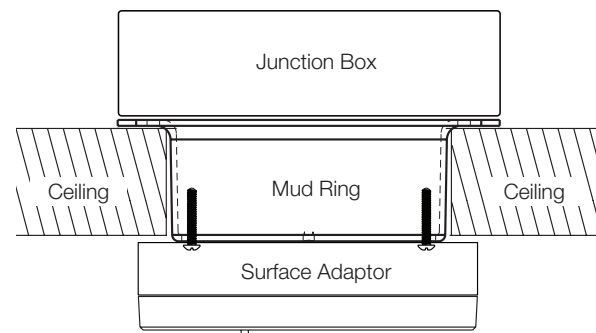
Surface Adaptor

Use appropriate mud ring for ceiling tile thickness
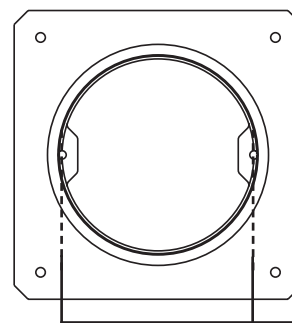
Use mud ring with hole spacing
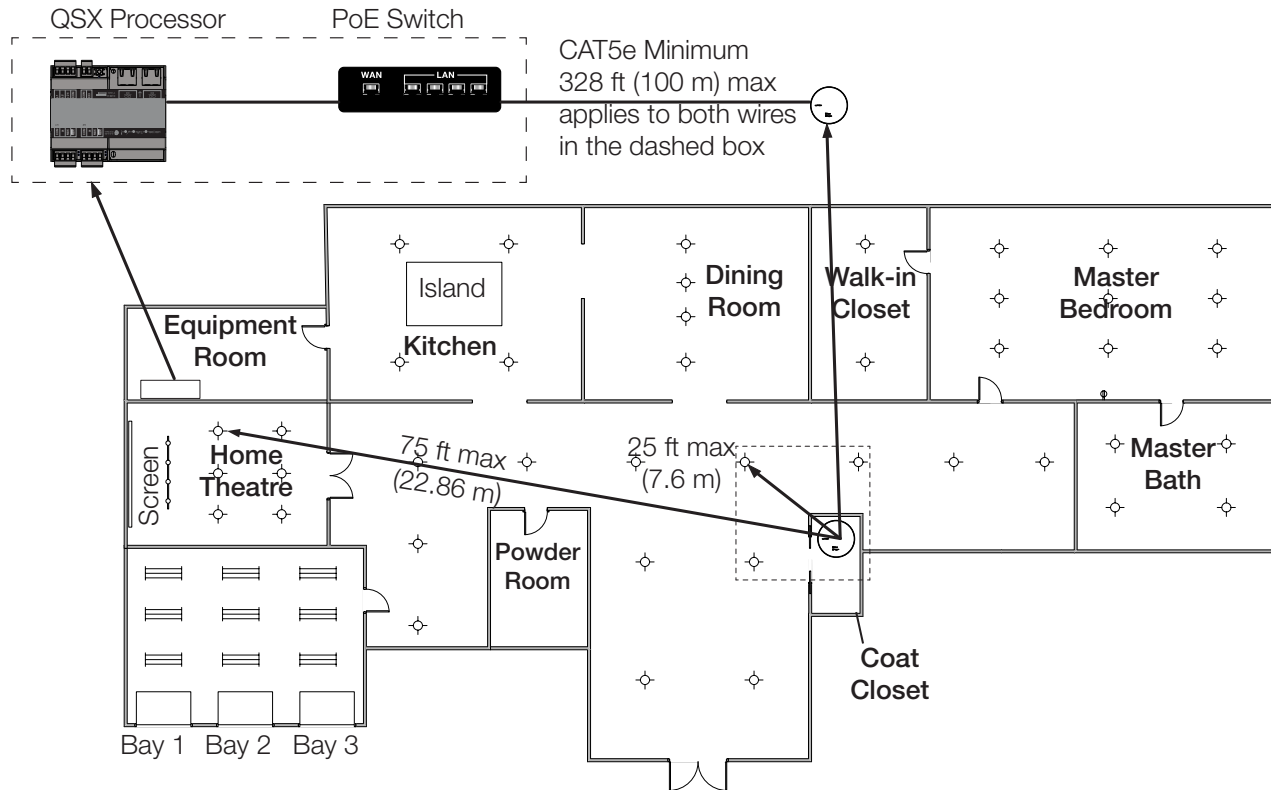shown below.
(Mud ring not included with
any models)

2.75 in (70 mm)

* Both the recess-mount and surface-mount adaptors will ship with the Clear Connect Gateway – Type X units.

Clear Connect Gateway – Type X

Choose 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. A minimum of two or more Clear Connect – Type X devices must be within 25 ft (7.6 m) of the Gateway. See Lutron application note P/N 048745 at www.lutron.com for more information on mounting location requirements for the Gateway. A maximum of 16 total Gateways and QSX processors can be on one system.

Note: Each Clear Connect – Type X device should have two or more non-battery powered Type X devices within 25 ft (7.6 m) of another compatible Clear Connect – Type X device.

Legend
⊝ Clear Connect – Type X Gateway
✧ Clear Connect – Type X device