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# Athena

## AKE-RF2 Athena Wireless Processor



## Specifications

- Product Name: Athena Wireless Processor / Clear Connect – Type X Gateway
- Models: AKE-RF2, QE-RF
- Power: 48V – 100mA

The Athena wireless processor / Clear Connect – Type X gateway is compatible with the following equipment:

- **Clear** Connect – Type X Athena wireless node models – A-WN-E01-RF-WH, A-WN-E01-RF-BL, A-WN-E01-OCC-WH, A-WN-E01-OCC-BL
- **Clear** Connect – Type A Radio Powr Savr occupancy /vacancy, daylight sensors, and Pico wireless controls (AKE-RF2 model only)

The Athena wireless processor / Clear Connect – Type X gateway must be powered by an IEEE 802.3af, IEEE 802.3at or IEEE 802.3bt compliant LPS / SELV PoE or PoE+ power supply.

The Clear Connect – Type X gateway requires at least one Athena light management hub. Refer to the installation instructions of the Athena light management hub for setup and other information.

## Important Notes

Please Read Before Installing

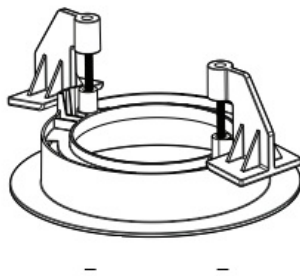
1. Clean the Athena wireless processor/gateway with a soft damp cloth only. DO NOT use any chemical cleaners.
2. Intended for indoor use only. Operate between 0 °C and 40 °C, 0% to 90 % humidity, non-condensing.
3. DO NOT paint.
4. The range and performance of the wireless system is highly dependent on a variety of complex factors. For myLutron users, please see Application Note #842 (P/N 048842) for additional information on Clear Connect – Type X Best Practices at [www.lutron.com/europe](http://www.lutron.com/europe)
5. Metal objects block wireless communication. Avoid installing processor / gateway on or within metal surroundings other than junction box.

## Included Components

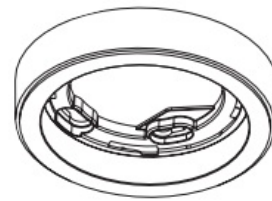
Processor



Recess-mount adaptor



Junction box mount adaptor



## Tools You May Need

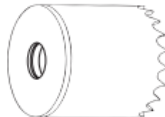
Ladder



Pencil

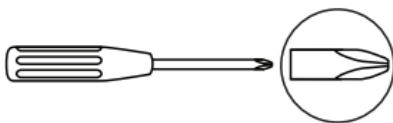


Hole saw

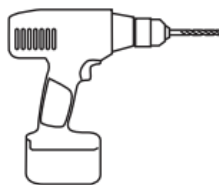


83 mm to 89 mm

Phillips head screwdriver

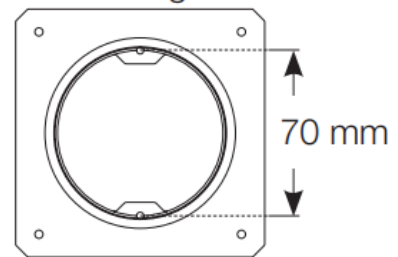


Drill



### Components (not included)

Plaster ring



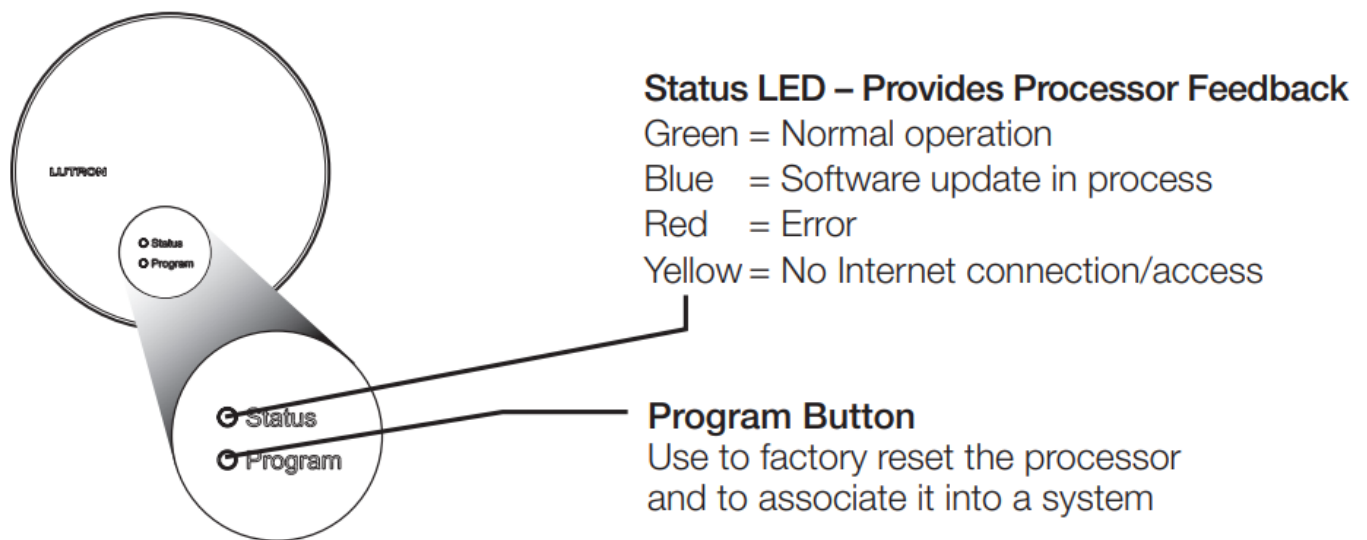
## Customer Assistance

For questions concerning the installation or operation of this product, call Lutron Customer Assistance. Please provide exact model number when calling.

+44.(0)20.7702.0657 (UK & Europe)

[www.lutron.com/europe/Service-Support](http://www.lutron.com/europe/Service-Support)

## Product Overview

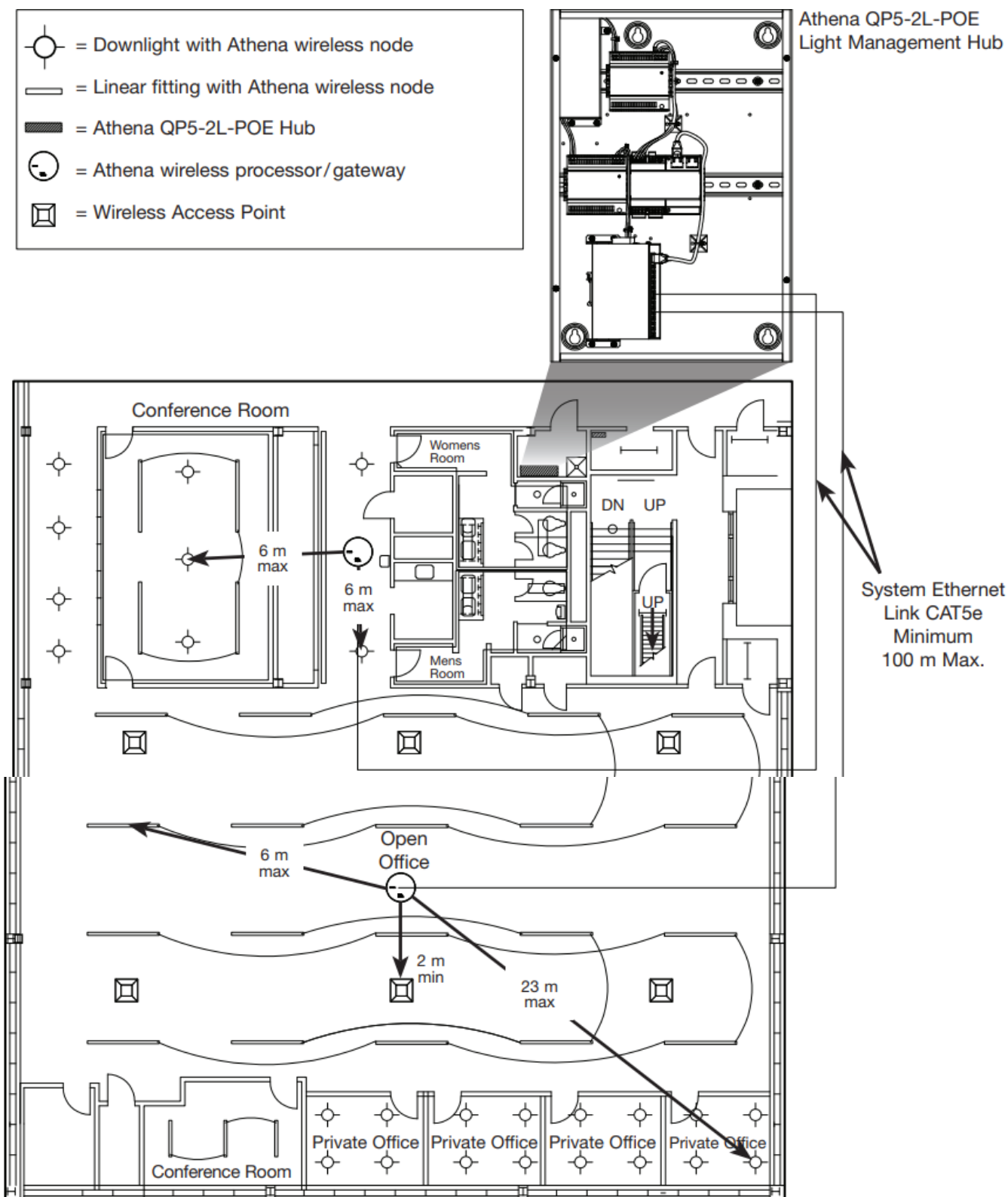


## Installation

### Step 1 — Choose a Location to Install

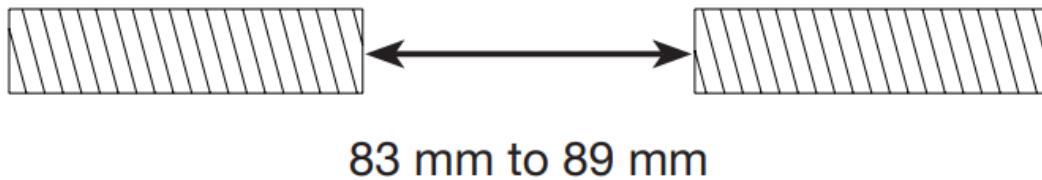
Choose a location to mount the Athena wireless processor / gateway so that it is centrally located in relationship to the other Clear Connect – Type X devices. Each Clear Connect – Type X device must be within 23 m of a central located wireless processor or Clear Connect gateway. A minimum of two or more Clear Connect – Type X devices must be within 6 m of the processor/gateway and must be mounted 2 m away from wireless interference sources like microwaves, Wireless Access Points (WAPs) etc. Each Clear Connect – Type X device should have two or more non-battery powered Type X devices within 6 m of another compatible Clear Connect – Type X device. Groups or clusters of Clear Connect – Type X devices must not be separated by more than 6 m. PoE wiring must be kept internal to the building. Do not run PoE wiring outdoors or install the gateway in metallic enclosures. Maximum distance from Athena wireless processor to Clear Connect – Type A device is 18 m line of sight or 9 m through walls.

### Fixture Legend



1. The wireless processor is powered via an IEEE 802.3af-2003 or 802.3at-2009 compliant PoE supply. Use CAT5e minimum Ethernet cable. Maximum Ethernet cable length is 100 m max.
2. The wireless processor / gateway should not control Type X devices on multiple floors, only Type X devices on the same floor as the wireless processor / gateway.

## Step 2 — Provide Opening for Adaptor

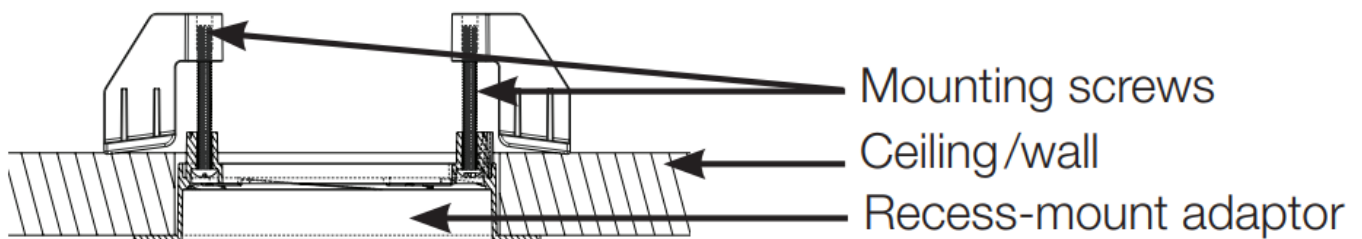


### Step 2a

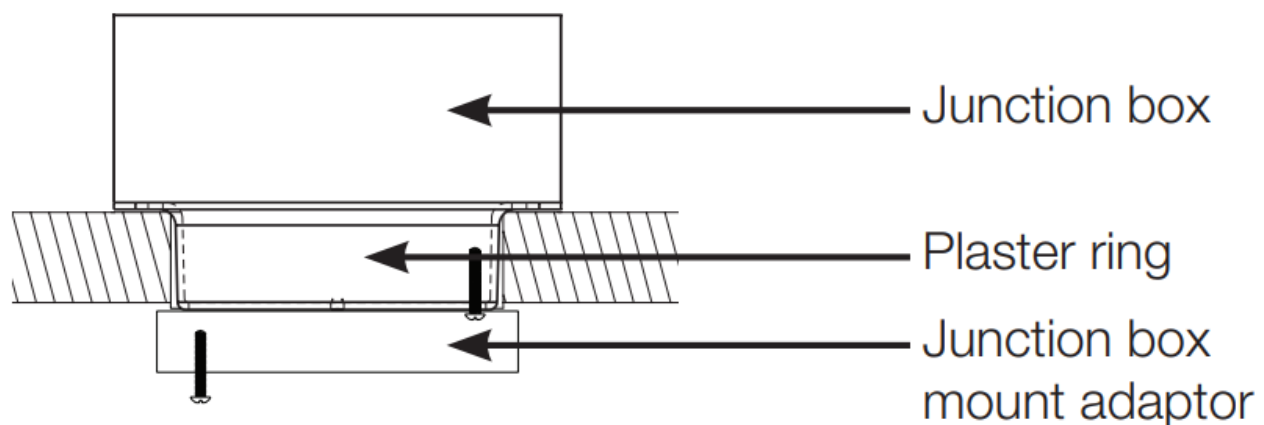
Select the mounting adaptor for your installation. Each Athena wireless processor comes with a recess-mount adaptor and a junction box mount adaptor. For wall-mount installation, use the recess-mount adaptor.

### Step 3 — Install Adaptor or Plaster Ring into Ceiling or into Wall

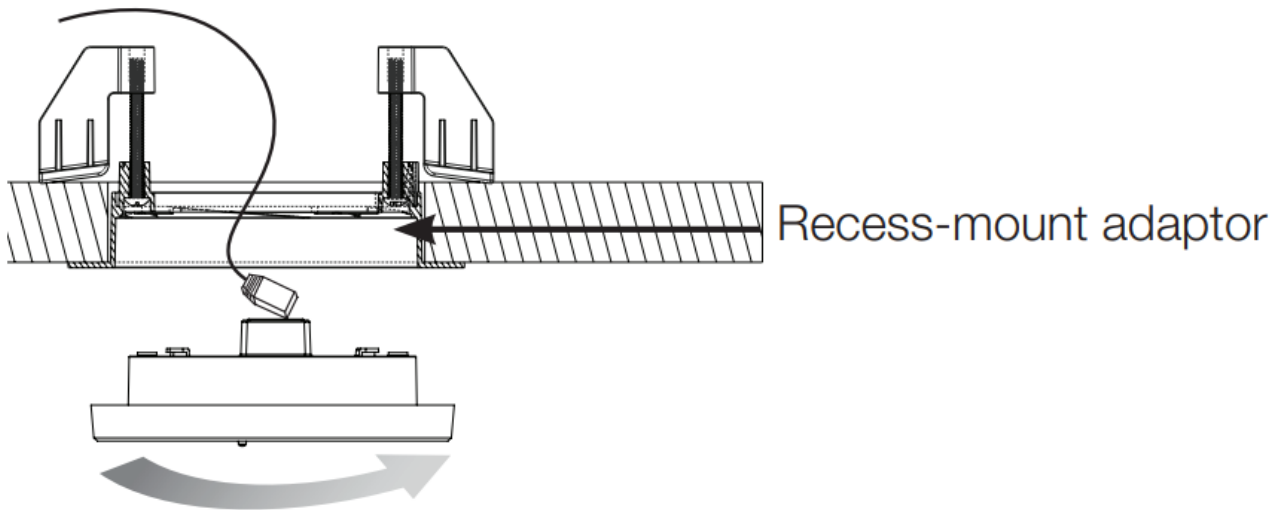
#### Install adaptor into ceiling or wall



#### Install plaster ring

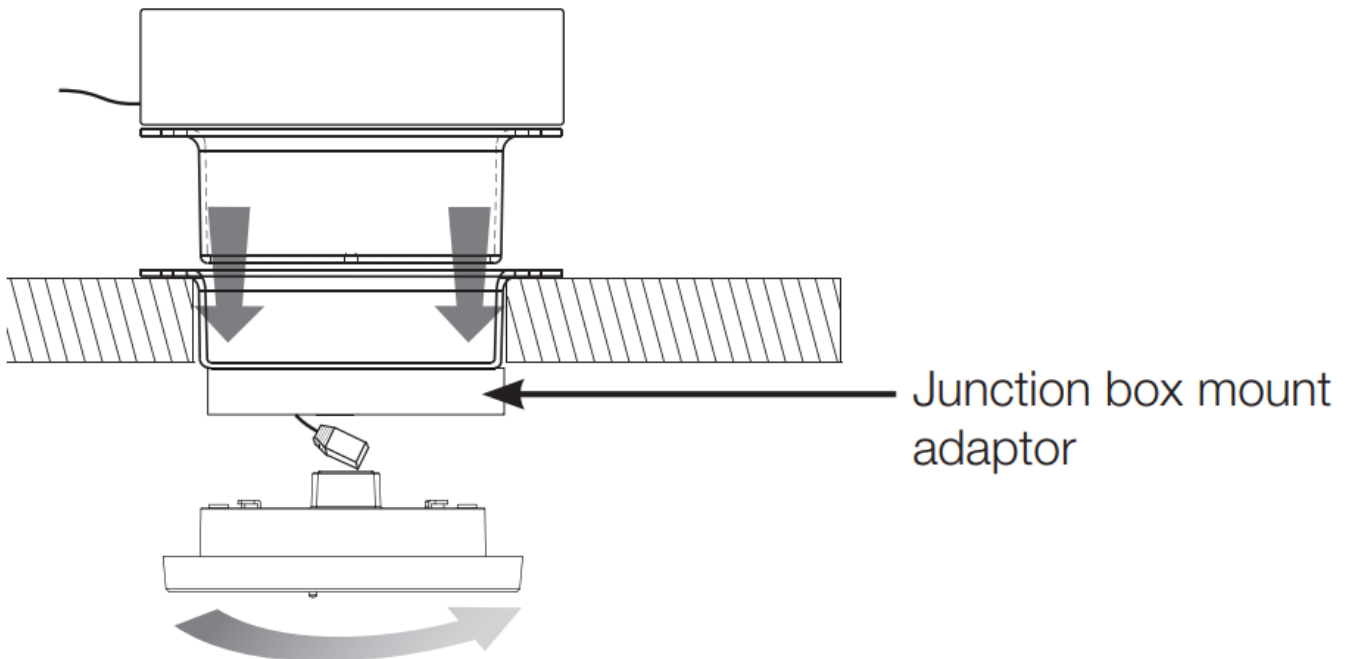


### Step 4 — Plug in Ethernet cable and attach processor to PoE-enabled network switch or PoE injector



OR

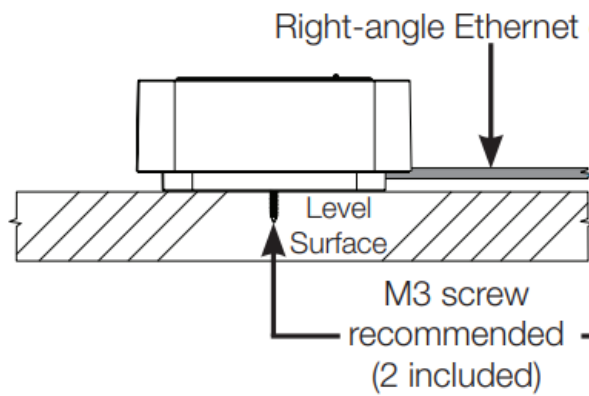
To plaster ring



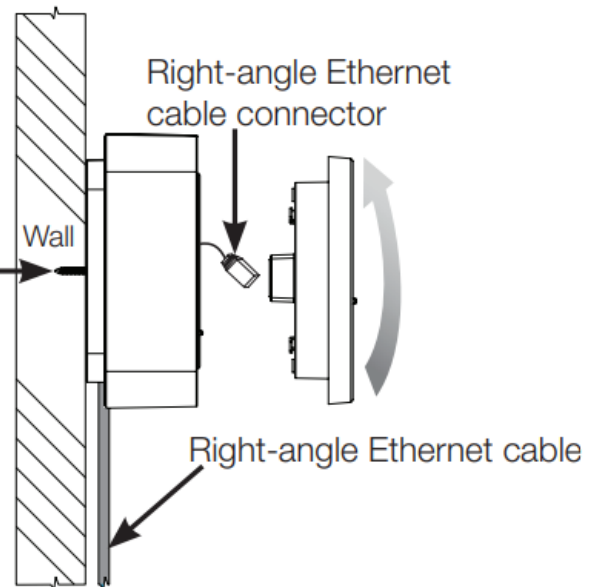
#### Step 4a – Install Shelf-mount Adaptor (L-SMNT-WH, sold separately)

Hold the adaptor to the wall in the desired location and mark the holes for the adaptor. Partially drive two (2) screws at least 6.3 mm into the wall for the drywall anchors. Using a right-angle Ethernet cable, feed right-angle connector of the cable through the adaptor BEFORE tightening the screws, then tighten the mounting screws.

## Horizontal



## Vertical



### Step 5 — Activate the System

You have completed your Athena wireless processor / Clear Connect – Type X gateway installation. For onsite factory startup, call Lutron Customer Assistance and select Startup to schedule a field service visit. Allow for 10 working days between day of call and scheduled visit.

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### LED Diagnostics

Mode / Error	LED Pattern Description
Normal Operation	Status LED blinks Green every 10 seconds
Software Update	Status LED blinks Blue
Error	Status LED ON solid Red
Processor Identify	Status LED blinks Green rapidly
Processor has no Internet access	Status LED blinks Yellow every 5 seconds

### Troubleshooting



Symptom	Probable Causes and Solutions
Unit does not power on	A PoE switch is not being used or is not configured as a PoE switch.
	The other end of the Ethernet cable is not connected to a PoE switch.
Unit cannot be found in Lutron design software	Computer running design software is not connected to the same LAN as the wireless processor.
	Model is not supported (Athena / myRoom vs. HomeWorks).
	Ethernet run is longer than the supported 100 m and a PoE extender is needed.
Unit does not control surrounding lights	Lights are out of range of the wireless processor.
	Processor lost power / Ethernet wire run too long and PoE booster is required.
	2.4 GHz wireless access point is less than 2 m from the processor.
LED on unit is blinking yellow every 5 seconds	Processor does not have Internet connectivity. Verify that the processor is connected to a network configured for Internet access. Wait for up to 1 minute after implementing any corrective actions.
	Refer to the “Commercial Lighting Control System IT Implementation Guide” for troubleshooting details.
LED on unit is solid red	Contact Lutron Tech Support only if maintained more than 30 seconds or if it occurs periodically.

Hereby, Lutron Electronics Co., Inc. declares that the radio equipment type AKE-RF2, QE-RF are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.lutron.com/cedoc](http://www.lutron.com/cedoc)

## Limited Warranty

For limited warranty information, please visit [www.lutron.com/europe/service-support](http://www.lutron.com/europe/service-support)

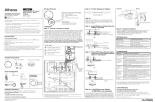
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FAQ

- **Q: What power supply does the Athena wireless processor / Clear Connect – Type X gateway require?**  
A: The gateway must be powered by an IEEE 802.3af, IEEE 802.3at, or IEEE 802.3bt compliant LPS / SELV PoE or PoE+ power supply.
- **Q: How do I reset the processor?**  
A: Use the Program Button to factory reset the processor and associate it into the system.
- **Q: What tools may be needed for installation?**  
A: Tools required may include a ladder, pencil, Phillips head screwdriver, and a hole saw (83mm to 89mm).

Documents / Resources

	<a href="#">Athena AKE-RF2 Athena Wireless Processor [pdf]</a> Instruction Manual AKE-RF2 Athena Wireless Processor, AKE-RF2, Athena Wireless Proces sor, Wireless Processor, Processor
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References

- [User Manual](#)

■ Athena

◆ AKE-RF2, AKE-RF2 Athena Wireless Processor, Athena, Athena Wireless Processor, Processor, Wireless Processor

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