

Installing the ExtremeWireless Indoor 802.11 a/ ac+b/g/n AP3915e Access Point

Overview of the AP3915e

The AP3915e is an 802.11AC Wave 2 Access Point featuring dual 2x2:2 radios. The all-metal design supports high operating temperatures, external antennas, and flexible mounting options for wall mount, ceiling mount, beam, and T-bar. The AP can be powered by 802.3af or by using a 12VDC wall brick power source.

Note: The AP3915e requires a minimum base firmware of 10.41.

The AP3915e model has the following features:

- Radios: 2 radios (2.4GHz and 5GHz); 1 IoT Radio (2.4 GHz)
- Console Port: RJ45
- One RJ45, 10/100/1000 Ethernet Port (LAN1) with PoE
- LEDs: 4 (see Figure 2)
- One Reset button
- Power: PoE 802.3af; 12VDC power in connector (see Table 1)
- Antennas:
 - Three **external** antennas (two dual band antennas and one IoT antenna)
 - Three RSPMA mount style antenna connectors
- External USB 2.0 port with features to support a locking module
- Safety Hangar provision
- Temperature:
 - -20 to +55°C ambient temperature anywhere
 - -20 to +65°C ambient temperature near sea level
- Enclosure: All metal - no plastic

Figure 1 Top and Side Views of AP3915e

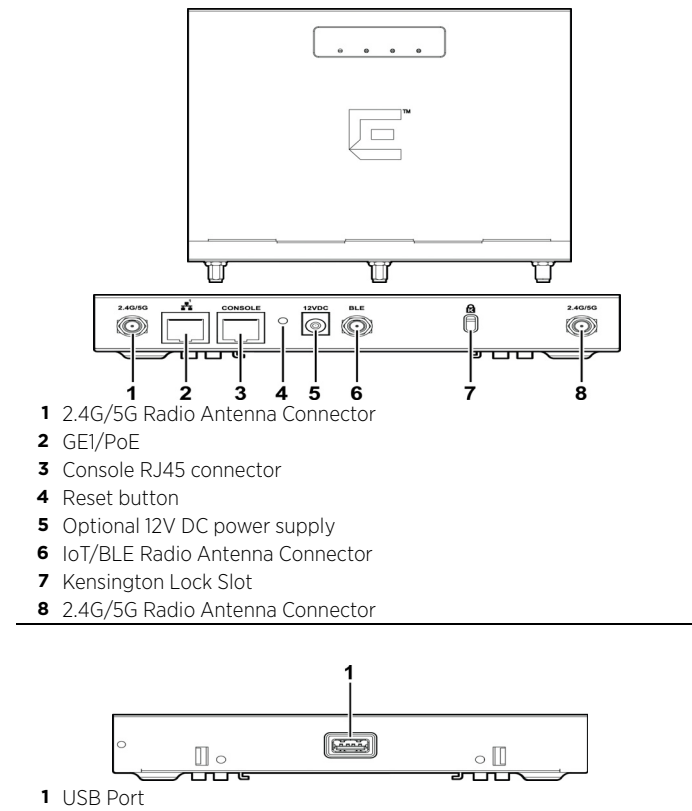
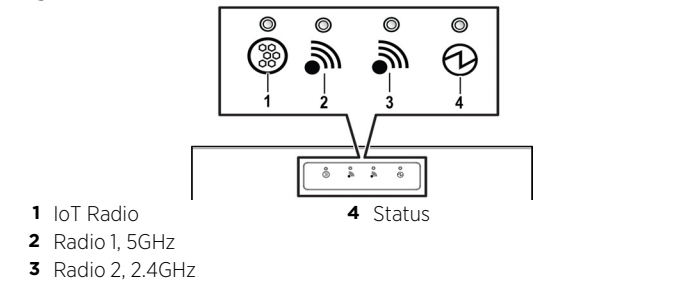


Table 1 AP3915e Powering Methods

Power Source	Description
Power over Ethernet (PoE)	Power is provided through the RJ45 Ethernet port (GE1 port) of AP3915e. This is the usual method of powering the AP on ceiling and high wall installations.
External 12V DC power supply (optional)	The AP3915e can also be powered by an external DC power supply plugged into an AC source. Plug the supply's input jack into the DC-In port (callout 5 in Figure 1).

Figure 2 AP3915e LEDs on Front Cover



Both the Radio LEDs will be Green when they are ON and the LEDs will not have any lights when they are OFF. Blue LED indicates the IoT status.

Verifying the AP3915e Box Contents

Verify the contents of the box and ensure that the following items are available:

Table 2 Contents of the AP3915e Box

Quantity	Item
1	AP3915e Quick Reference Guide
1	Mounting Bracket for 802.11ac Indoor AP assembled onto the AP
1	Cloud Quick Start Card
The following hardware is included:	
2	Phillips Pan-head wood screws
2	Screw-in anchors

Mounting and Connecting the AP

Electrical Hazard: Only qualified personnel should perform installation procedures.

The AP3915e comes with a Mounting Bracket (#37201) that can be used to mount the AP on a flat t-bar with flat ceiling tiles, flat surfaces, beams, and some junction/gang boxes. An adaptor and brackets are available for mounting the AP to non-flat ceiling tiles and t-bars. To mount the AP3915e on a junction/gang box, use the optional bracket (WS-MBI-WALL04; #30516). All additional and optional parts are sold separately.

Note: The mounting procedures for installing the AP using the WS-MBI-DCFLUSH (ordering part #37211) adaptor to a T-bar, WS-MBI-DCMTR01 (ordering part #30518) to a T-bar, and using the main mounting bracket (ordering part #37201) along with a flat metal-easy attach adaptor (ordering part #37210) are covered in the *ExtremeWireless AP3915e Installation Guide*.

Note: The slot and lock cuts in the rear of the AP are used for mounting the Wall/Junction Box/Gang Box bracket. The brackets can be mounted in two directions and so, the antennas on the AP can point up or down.

Mounting the AP to a Suspended or Drop Ceiling

The AP3915e can be mounted to a suspended or drop ceiling directly using the mounting bracket on the t-bar. If there is a ceiling tile protrusion, add the optional T-bar adaptor to the main mounting bracket prior to T-bar installation.

Option 1: Using the Main Mounting Bracket to a T-bar

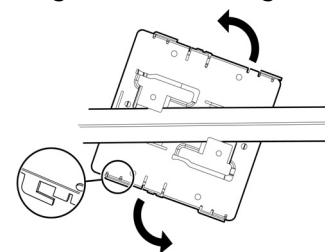
Before installation ensure that:

- The minimum base thickness of the T-bar that supports the ceiling tile is 0.031".
- The maximum base thickness of the T-bar of the T-bar is 0.055".

Note: The T-bar width can be either 9/16" (15mm) or 15/16" (24mm).

- 1 Remove the ceiling tiles, slide and rotate the main mounting bracket onto the T-bar in such a way that the center angled locking tabs of the main bracket gets attached to the T-bar (Figure 3).

Figure 3 Attaching the main mounting bracket to a T-bar



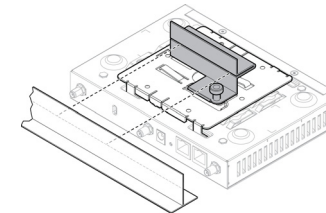
- 2 Replace the tiles to hold the T-bar in place.
- 3 Hold the AP and rock it back and forth to ensure it is securely mounted.
- 4 Attach the Ethernet cable's RJ45 connector to the LAN1/GE1 port.

Option 2: Mounting the AP by attaching an adaptor to the main bracket

To attach the AP on a Suspended or Drop ceiling:

Note: Mounting the AP to a suspended or drop ceiling may require the optional adaptor (Universal Mounting Kit for WLAN APs; # KT-135628-01) if the ceiling tile is not flat.

- 1 Attach the T-bar adaptor by lining up the small bends on the adaptor with the long raised parts on the main bracket, pull up on the adaptor's locking pin, and twist the adaptor onto the main mounting bracket. Make sure the locking pin goes into the locking pin hole on the main bracket and locks in place.
- 2 Slide the T-bar holder onto the T-bar and replace the tiles to hold the adaptor onto the T-bar.



- 3 Hold the AP and rock it back and forth to ensure that it is securely mounted.
- 4 Attach the Ethernet cable's RJ45 connector to the LAN1/GE1 port.

The optional WS-MBI-DCMTR01 (#30518) adaptor can also be used for T-bar installations without the mounting bracket.

For detailed instructions, see the *Extreme Networks Wireless AP3915e Installation Guide*.

Mounting the AP on a Wood Wall/Solid Flat Ceiling

Pre-installation checklist:

- The mounting surface, item, and hardware must be able to support the AP in all environmental conditions.
- The mounting surface should be flat.

To install the AP on a dry wall or flat surface:

Option 1: Using the Main Bracket

Note: Remove the main bracket from the AP to use it as a template.

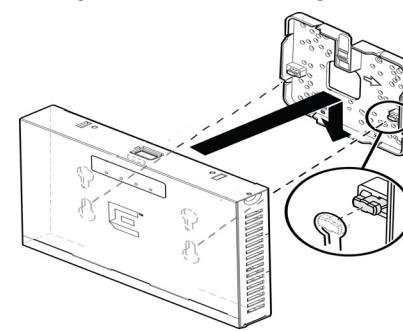
- 1 Use the main bracket as a template and mark the hole centers on the wall.
- Note:** The four feet of the bracket must be horizontal and pointing to the right. The flat part of the large surface must be touching the wall.
- 2 Drill two holes 83mm (3.270") apart from each other on the wall where you want to mount the AP.
- 3 Insert the screws through the bracket and into the holes. Use the screw-in anchors if needed.
- 4 Insert the Ethernet cable's RJ45 connector into the LAN1/GE1 port.
- 5 Slide the AP onto the bracket's four feet. Ensure that the AP is secured in place and tightened.

Option 2: Using an optional Wall and Box bracket

Note: Mounting the AP to a flat ceiling/wall with the WS-MBI-WALL04 (#30516) bracket, which must be purchased separately.

- 1 Use the optional wall and box bracket as a template and mark the holes to be used to mount as "A" or "B" and mark the hole centers on the attachment surface.
- 2 Drill the holes and attach the bracket using the screws and anchors provided in the kit.
- 3 Install the WS-MBI-WALL04 bracket onto a wall/ceiling with two screws and anchors and ensure that the locking tab is on the top side (Figure 4).

Figure 4 Attaching the AP to a wall using the WALL04 bracket



Note: If the holes that you need to use are not near the corners of the bracket, break off the corner to decrease bracket's visibility once the AP is installed.

- 4 Connect the LAN/Ethernet cable to the back of the AP.
- 5 Slide the AP onto the keyhole posts in the bracket, push down, and lock it into place.

Mounting the AP on a Junction or Gang Box

To mount the AP on a Junction or Gang box:

- 1 Use the Wall and Box Bracket WS-MBI-WALL04 (#30516).
- 2 Remove the screws and cover-plate from the junction/gang box.
- 3 Line up the bracket holes on the junction/gang box and ensure that they align. If the holes do not align, drill new holes.

Note: When you line up the holes, the locking tab on the bracket must be pointing up and the junction/gang box must be fully covered by the bracket. The bracket must be square to the rest of the room walls and the two holes that are being used must be on the opposite sides of large center hole on the bracket.

- 4 Using the holes aligned together or the new ones drilled, attach the bracket to the junction/gang box using the screws removed from the box earlier.
- 5 Attach the AP to the bracket as shown in Figure 4.
- 6 Any leftover items may be discarded.

Mounting the AP to a Beam

Pre-installation checklist:

- The beam must be able to support the AP in all environmental conditions.
- The beam should be flat.

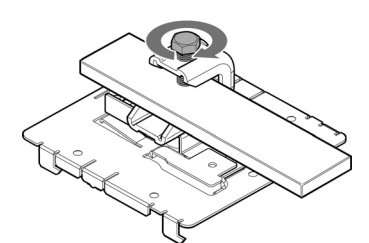
Before attaching the AP onto a beam, verify that:

- Beam attachment area is at least 0.5" (12.7mm) wide and as long as the AP's largest dimension.
- Beam mounting surface is less than 0.650" (16.5mm) thick.

To attach an AP to a beam, attach the beam adaptor (#BRKT-000147A-01) to the Main Plate (#37201).

- 1 Attach the adaptor by centering it on the main plate, pushing down, and rotating at an angle in such a way that the adaptor is securely locked on to the main plate.
- 2 Place the adaptor on a beam in such a way that there is enough space between the screw and clamp to be tightened.
- 3 Use the screw and clamp on the top of the adaptor to secure the AP in place on the beam.
- 4 Insert the Ethernet plug into the AP.

Figure 5 Attaching the beam clamp on a beam



For detailed procedure on Installing the AP, see the *Extreme Networks Wireless AP3915e Installation Guide*.

Connecting a Power Supply to the AP3915e

If you need to power the AP3915e with an external 12V DC power supply, you can plug the power cord into the power connector (callout 5 in Figure 1) on the back of the AP. There is no wall mount bracket for the 12V DC power supply. When the device is powered on, the power LED on the front face of the AP is lit. Refer to the *Extreme Networks Wireless AP3915e Installation Guide* for information about optional power supplies.

LAN/Console Connections

The AP3915e has one GE1 (Ethernet) port and a Console port. Refer to Figure 1 for the location of these ports. During administration and maintenance through the GE1 or Console, the AP must still have a power connection through either an Ethernet PoE cable or a DC power supply.

Operational Description of Antenna Configuration and RF Output Power Setting

Per KDB 353028 D01 Antennas Part 15 Transmitters v01 requirement, Applications must contain an exhibit listing each antenna, the antenna gain, antenna type, and antenna manufacturer/vendor and output power that can be used for the device, that the info listed below are correct and represent the product in consideration under this filing.

