

Installing the ExtremeWirelessIndoor 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.

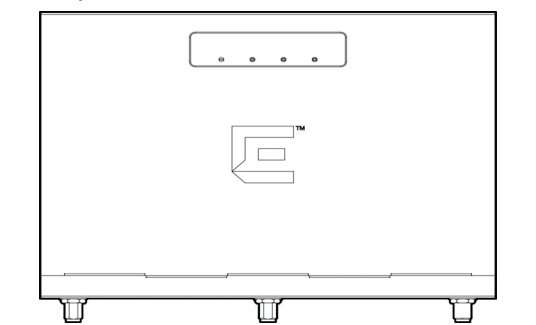
Note: The AP3915e requires a minimum base firmware of 10.41.

The AP3915e model has the following features:

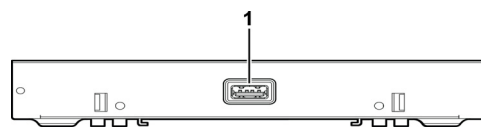
- Radios: 2 radios (2.4GHz and 5GHz); 1 IoT/BLE Radio (2.4 GHz)
- Console Port: RJ45
- One RJ45, 10/100/1000 Ethernet Port (LAN1) with PoE
- LEDs: 4 (see Figure 2)
- One Reset button
- Power: PoE 802.3af; 12VDC power in connector (see Table 1)
- Antennas:
 - Three **external** antennas (two dual band antennas and one IoT/BLE antenna)
 - 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 +60°C ambient temperature near sea level
- Enclosure: Metal

Figure 1 shows the top and side views of the AP3915e.

Figure 1 Top and Side Views of AP3915e



- 1 2.4G/5G Radio Antenna Connector
- 2 GE1/PoE
- 3 Console RJ45 connector
- 4 Reset button
- 5 Optional 12V DC power supply
- 6 IoT/BLE Radio Antenna Connector
- 7 Kensington Lock Slot
- 8 2.4G/5G Radio Antenna Connector



- 1 USB Port

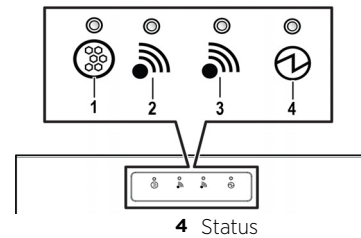
Table 1 shows ways to power the AP3915e.

Table 1 Powering the AP3915e

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 shows the LEDs on the front of the AP3915e.

Figure 2 LEDs on AP Front Face



- 1 IoT Radio
- 2 Radio 1, 5GHz
- 3 Radio 2, 2.4GHz
- 4 Status

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.

For detailed installation information about the AP3915e, see the *Extreme Networks Wireless AP3915e Installation Guide*.

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	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.

Use these instructions as guidelines for mounting and connecting the AP3915e easily and safely.

The AP3915e does not come with any bracket for mounting on a solid ceiling or junction/gang box. The optional bracket (WS-MBI-WALL04) is sold separately.

You must also purchase the optional adapter if you want to mount the AP on a beam.

For more information about installing the optional bracket and the adapter, see the *Extreme Networks Wireless AP3915e Installation Guide*.

For installation videos of the AP, see www.extremenetworks.com/support/

Note: The slot and lock cuts in the rear of the AP (Figure 3) 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 on a Wood Wall/Solid Flat Ceiling

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

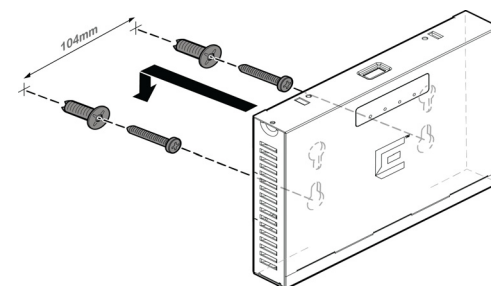
Option 1: Using the Philips Pan-head wood screws

- 1 Drill two holes 104mm (4.100") apart from each other on the wall where you want to mount the AP.
- 2 Insert the screws into the holes and use the screw-in anchors if needed.

Note: Leave 1/8" gap between the screw head and the wall.

- 3 Insert the Ethernet cable's RJ45 connector into the LAN1/GE1 port.
- 4 Align the AP against the screw heads and slide it down. Ensure that the AP is secured in place and tightened. If the AP is loose, unmount the AP and decrease the distance between the screw head and the wall. Remount the AP.

Figure 3 Attaching AP to a Wall

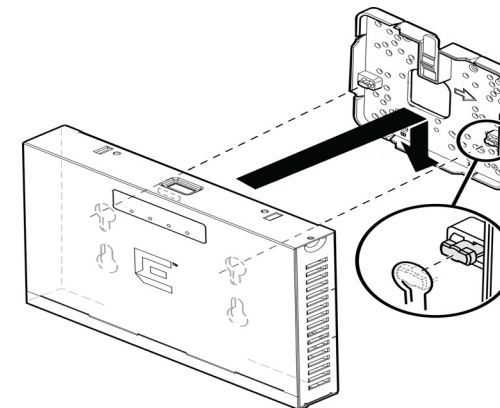


Option 2: Using an optional Wall and Box bracket

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

- 1 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.
- 2 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.
- 3 Drill the holes and attach the bracket using the screws and anchors provided in the kit.

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 to a Bracket on a Junction or Gang Box

To mount the AP to a Bracket on a Junction or Gang box:

- 1 Use the Wall and Box Bracket (WS-MBI-WALL04 (Ordering Part #30516) that needs to be purchased separately).
- 2 Remove the screws 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.

Mounting the AP to a Suspended or Drop Ceiling

To attach the AP on a Suspended or Drop ceiling, use the Multi T-bar bracket.

- 1 Slide the T-bar ceiling mount bracket base into the back of the access point. The locking tab fits into the grooves in the outside of the AP.
- 2 Gently raise the slider locking tab and open the movable sliding part of the bracket to give the stationary slider more space.
- 3 Hook the stationary end of the T-bar bracket onto the T-bar.
- 4 Tilt the AP slightly in such a way that the T-bar bracket will hold both sides of the T-bar.
- 5 Squeeze the bracket parts together until you hear the bracket's movable part locking tab click into place.
- 6 Hold the AP and rock it back and forth to ensure that it is securely mounted.
- 7 Attach the Ethernet cable's RJ45 connector to the LAN1/GE1 port and place the ceiling tile back in place.

Mounting the AP to a Beam

To attach an AP to a beam, attach an adaptor to the Multi T-bar bracket.

- 1 Attach the adaptor to the multi T-bar bracket by spreading the sliding part of the multi T-bar bracket.
- 2 Insert the adaptor in such a way that the T-bar holding clips Squeeze the sliding part of the multi T-bar bracket together to secure the adaptor in place.
- 3 Place the adaptor on a beam in such a way that there is enough space between the screw and clamp to be tightened.
- 4 Use the screw and clamp on the top of the adaptor to secure the AP in place on the beam.

- 5 Insert the Ethernet plug into the AP.
- 6 Slide the AP onto the multi T-bar bracket.

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.

Professional Installation Instruction

Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

Installation location

The product shall be installed at a location where the radiating antenna can be kept 36 cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/IC limit and is prohibited.

Installation procedure

Please refer to user's manual for the detail.

Warning: Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

Installation

Ce produit est destine a un usage specifique et doit etre installe par un personnel qualifie maitrisant les radiofrequences et les regles s'y rapportant. L'installation et les réglages ne doivent pas etre modifiés par l'utilisateur final.

Emplacement d'installation

En usage normal, afin de respecter les exigences reglementaires concernant l'exposition aux radiofrequences, ce produit doit etre installe de facon a respecter une distance de 36 cm entre l'antenne emettrice et les personnes.

Antenn externe

Utiliser uniuquement les antennes approuvees par le fabricant. L'utilisation d'autres antennes peut conduire a un niveau de rayonnement essentiel ou non essentiel depassant les niveaux limites definis par FCC/IC, ce qui est interdit.

Procedure d'installation

Consulter le manuel d'utilisation.

Warning: Avertissement: Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne depasse pas les limites en vigueur. La violation de cette regle peut conduire a de serieuses penalites federales.

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

