

ExtremeWireless 802.11ax AP302W Indoor Access Point

AP302W Overview

The AP302W access point is an indoor model 802.11ax wallplate access point. The access point supports Wi-Fi 6, features built-in dual-band radios, three WiFi internal antennas, and one Bluetooth Low Energy (BLE) antenna. The AP302W access point can be mounted on a flat surface such as a wall, to a junction box, and can be installed on a desk stand.



Note: The AP302W requires a minimum base firmware of WiNG 7.6.0 or IQEngine 10.3r0.

The AP302W access point has the following features:

- Radios:
 - Two 802.11ax radios (one 2x2 2.4 GHz and 5 GHz radio, and one 2x2 5 GHz radio)
 - One IoT Radio (2.4 GHz/IEEE 802.15.4 Zigbee)
- Console port: custom micro-USB cable
- Six, 10/100/1000 Mbps ports:
 - Rear ports:
 - One Ethernet (ETH) port with Power over Ethernet (PoE) in
 - One pass through port
 - Bottom ports:
 - Two ETH ports
 - One ETH port with power-sourcing-equipment (PSE)
 - One pass through port
- LEDs: One
 - The LED indicator will be on during reset
- One software reset button
- One Kensington lock
- One USB 2.0 type A connector, supports up to 2.5W
- Power: PoE 802.3at and 802.3af (see [Table 1](#) for details)
- Antennas: four internal antennas
- Temperature:
 - Operating temperature: 0 °C to +40 °C (32 °F to +104 °F)
 - Non-operating temperature: -40 °C to +70 °C (-40 °F to +158 °F)
- Enclosure: Plastic

Table 1 AP302W Power source

Power source	Description	PSE port (up to 12.5 W)	USB port (2.5 W)
PoE at 802.3at	802.3at is provided through ETH0	Yes	Yes
802.3af	802.3af is provided through ETH0	No	Yes
External 12 VDC power supply (optional; ordering part #37215- PWR 12 VDC, 2A, 2.5 mm x 5.5 mm connector)	Power is provided through an external DC power supply plugged into an AC source	No	Yes



Note: PoE power is disabled when external power supply is used.

Figure 1 Front and back views of AP302W

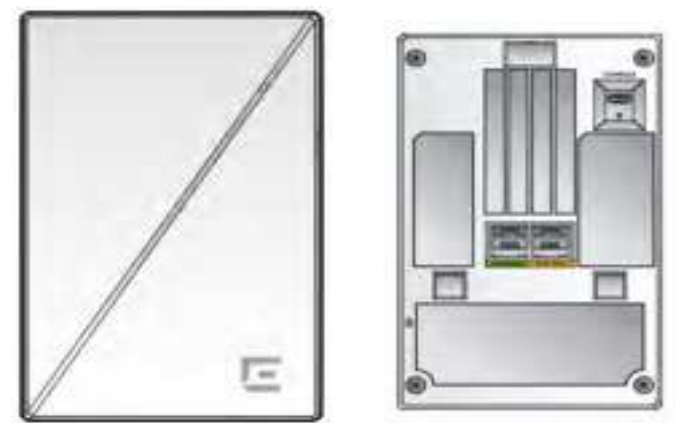


Figure 2 Bottom ports on AP302W access point

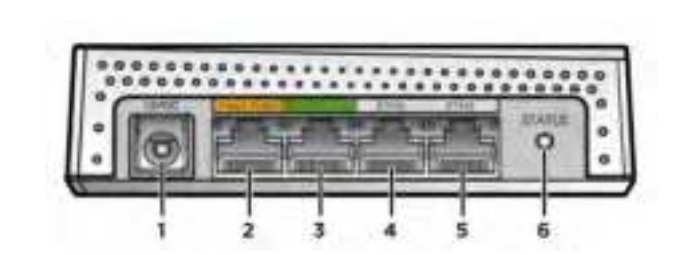


Table 2 Bottom ports on AP302W access point

Callout	Description
1	12 VDC power supply
2	Pass through port
3	ETH1 and PoE out port
4	ETH2 port
5	ETH3 port
6	Status LED

Status LED

- Amber color indicates non-operational status
- Green color indicates normal operational status

Light Sensor

The light sensor is located on the front face of the access point but is not visibly marked.

AP302W Box Contents

Ensure that the following items are available:

Table 3 Contents of the AP302W Box

Quantity	Item
1	AP302W Quick Reference
1	Access point
1	Mounting bracket for wall or junction box or solid ceiling
1	Flat head T8 locking screw
2	Flat pan head 6-32, 14 mm long black screws for USA junction box attachment
2	Pan head M3.5x16 mm long screws for solid wall or anchor attachment
2	25 mm long white plastic screw-in anchors
1	100 mm RJ45 cable (not including connectors), CAT.5E flat LAN cable

All optional brackets and accessories are sold separately. For detailed installation instructions about all mounting procedures, refer to the *ExtremeWireless AP302W Access Point Installation Guide* in the [Extreme Networks Documentation Support](#) site.

Install the Access Point



Electrical Hazard: Only qualified personnel must perform installation procedures.

Use these instructions as guidelines for mounting and connecting the AP302Waccess points easily and safely. The AP302W comes with a stainless-steel mounting bracket that can be used to mount the access point on flat surfaces such a wall or solid ceiling, or to a junction box. An optional desk stand is available for mounting the access point to a desk.



Note: For system Ethernet lines with receptacle, use the included RJ45 to RJ45 cable to connect the Ethernet cable to the access point. For system Ethernet lines without receptacle, connect the system Ethernet cable into the access point back ETH0 port.

Tools Required



Note: The installer must supply the required tools for installation.

- One < 1/4 in. flat-head or #1 Phillips head screwdriver
- One torx screwdriver with T8 or VT8 bit

Install the Access Point on a Wall

Pre-installation checklist:

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

- Using the stainless-steel mounting bracket as a template, mark and drill the wall installation holes on the wall.

- Insert the screws into the mounting bracket wall installation holes as shown in [Figure 3](#), and use the screw-in anchors, if needed.

Figure 3 Wall installation holes



- Insert the Ethernet cable into the ETH0 port.
- Insert the access point onto the bracket locking tab and slide it down until it is fully seated onto the bracket.
- Attach the security locking screw to the security locking tab on the wall bracket, and lock the access point in place.

If you want to install the access point on a solid ceiling or a dry wall, you need to create a hole from behind the wall to run the RJ45 cable. For more information, refer to the *ExtremeWireless AP302W Access Point Installation Guide*.

Install the Access Point on a Junction Box

Use the stainless steel mounting bracket to mount the access point on a junction box.

- Remove the screws from the box.
- Line up the bracket holes with the large hole on the box.



Note: When you line up the holes, the bracket locking tab must be pointing up and the box must be fully covered by the bracket.

- Using the aligned holes, attach the bracket to the box using the screws removed from the box earlier.

Figure 4 Stainless-steel mounting bracket for wall or junction box

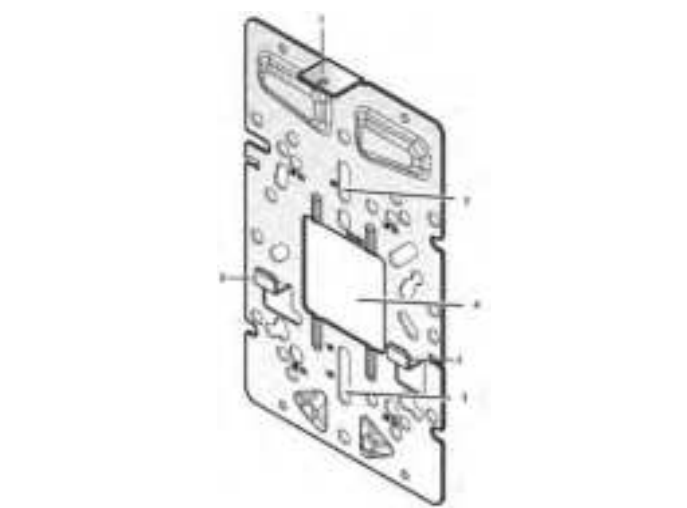


Table 4 Stainless-steel mounting bracket parts

Callout	Description
1	Security locking tab
2	Bracket locking tab
3	Junction box installation hole
4	Large hole to place on the junction box and run the RJ45 cable through

- Connect the Ethernet cable or the RJ45 flat cable to the access point.
- Align the keyhole slots and posts, and then slide the access point onto the bracket until it is fully seated in place.
- Using a security torx T-8 or a VT-8 screw, secure the bracket locking tab for physical security.

Install the Access Point on a Desk Stand

Use the optional desk stand, that need to be purchased separately, for this installation.

- Line up the access point on the mounting tabs of the desk stand.

Figure 5 Desk stand



- Slide the access point on the desk stand until it is fully seated and lock it in place.
- Attach the security locking tab screw to the security locking tab on the desk stand, and lock the access point in place.
- Insert the RJ45 cable into the access point.

Connect a Power Supply

If you need to power theAP302W access point with an external 12 VDC power supply, you can plug the power cord into the power connector on the back of the access point. There is no wall mount for the 12 VDC power supply. The power LED on the front face of the access point is lit when the power supply is connected. For information about optional power supplies, refer to the *ExtremeWireless AP302W Access Point Installation Guide*.

Professional Installation Instruction

Installation personnel

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

Installation procedure

Refer to the *ExtremeWireless AP302W Access Point Installation Guide*.



Warning: Select the installation position and ensure that the final output power does not exceed the limit set forth 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 reglages ne doivent pas etre modifiees par l’utilisateur final.

Procedure d’installation

Consulter le manuel d’utilisation *ExtremeWireless AP302W Access Point Installation Guide*.



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.

GE and Console Connections

The AP302W has four GE (Ethernet) ports and a Console port. During administration and maintenance through the Console, the access point must still have a power connection through either an Ethernet PoE cable or an external DC power supply.

Internal Antenna Configuration Information

Table 5 AP302W antenna configuration

Software mode	Radio 1	Radio 2	Description
Mode 1	2.4 GHz	5 GHz - full	Dual-band dual concurrent
Mode 2	2 GHz/ 5 GHz - full	5 GHz - full	R1 unlocked sensor
Mode 3	5 GHz - low	5 GHz - high	Dual 5 GHz band

