

Extreme Wireless 802.11be Wi-Fi 7 Indoor AP5022, AP5022FX, and AP5022S6D

The AP5022, AP5022FX, and AP5022S6D are indoor APs with quad-radio Wi-Fi 7 (4x4:4) (2.4 GHz, 5 GHz, 6 GHz and dedicated full time sensor), dual Internet of Things (IoT), dual 5 GHz, dual 6 GHz. The AP5022, AP5022FX, and AP5022S6D include a multi-rate port and internal antennas.

The AP5022, AP5022FX, and AP5022S6D can be mounted on the following:

- Wall and standard ceiling
- Nonstandard ceiling or wall
- Silhouette, Interlude ceilings, and 15/16-inch T-bar
- Junction and Box Beams

Technical Specifications

Fig. 1 AP5022 and AP5022FX



Do not stack APs on top of each other during onboarding or configuration. This will cause heat to build up between the APs, damaging the radomes and voiding the warranty.

The AP5022, AP5022FX, and AP5022S6D have the following features and specifications. For more information, see [the Data Sheet](#).

Radios

The AP5022, AP5022FX, and AP5022S6D have a five radio design with three 4x4:4 radios (2.4 GHz, 5 GHz, and 6 GHz bands), a dedicated Tri-band 2x2 sensor and dual IoT radios with Bluetooth, Zigbee, and Thread capabilities.

Software radio modes:

- Mode 1: 2.4 GHz, 5 GHz, and 6 GHz data radios plus a tri-band sensor
- Mode 2: 5 GHz, 5 GHz, and 6 GHz data radios plus a tri-band sensor
- Mode 3: 6 GHz / 5 GHz / 6 GHz data radio plus a tri-band sensor

*6 GHz is country dependent.

Ports:

- ETH0, ETH1: (2) wired Ethernet ports (RJ45)
- ETH0: 100/1,000/2,500/5,000/10,000 Mbps auto-sensing link speed Ethernet port, PoE PD, MACsec (802.1AE)
- ETH1: 100/1,000/2,500/5,000/10,000 Mbps autosensing link speed Ethernet port, PoE PD in or 15.4W PSE out mode (requires 802.3bt on ETH0)
- 802.3az Energy-Efficient Ethernet (EEE)
- USB 2.0, Type A, 5V/1,000mA with PoE 802.3bt

Security

- Trusted Platform Module (TPM)

Power Options

The following power options are supported:

- Power draw: 802.3at PoE: typical 21W, max. 25.5W (802.3at profile) w/o PoE out or USB
- Power draw: 802.3bt: typical 26W w/o USB, max 38W with 5W USB, 32W w/o USB 12V DC/3A. DC power has priority when both DC and PoE power sources are available

Physical Dimensions

AP5022

- Dimensions: 258mm x 258mm x 46mm (10.16 in. x 10.16 in. x 1.81 in.)
- Weight: 1.62 kg (3.57 lbs.)

AP5022FX

- Dimensions: 258mm x 265mm x 46mm 10.16 in. x 10.43 in. x 1.81 in.
- Weight: 1.53 kg 3.37 lbs.

AP5022S6D

- Dimensions: 258mm x 258mm x 46mm 10.16 in. x 10.16 in. x 1.81 in.
- Weight: 1.53 kg 3.37 lbs.

Environmental Specifications

- AP5022 Operating: 0°C to 50°C (32°F to 122°F)
- AP5022FX Operating: -20°C to 50°C (-4°F to 122°F)
- AP5022S6D Operating: 0°C to 50°C (32°F to 122°F)
- Storage: 0°C to 70°C (32°F to 158°F)
- Humidity: 0% to 95% (non-condensing)

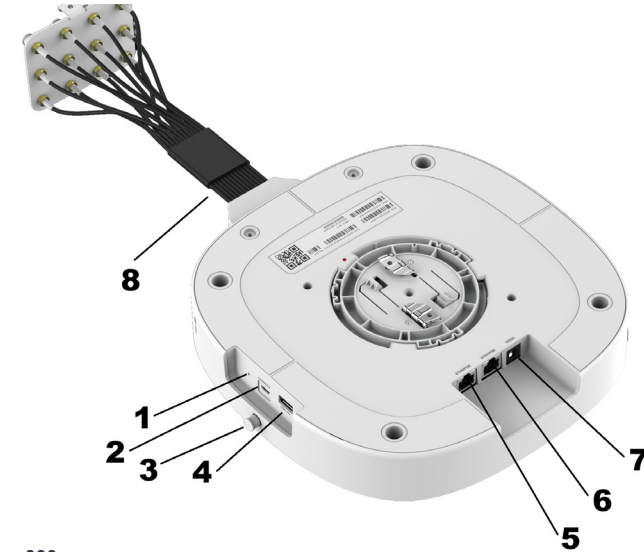
Enclosure: Plastic Top, Aluminum Bottom.

The AP5022, AP5022FX, and AP5022S6D have the same hardware ports with the exception that AP5022FX has a Bluetooth Low Energy (BLE) port and features an external antenna connector.



Note: Brazil requires the use of Cat6 shielded cable.

Fig.2 AP5022FX Ports and Hardware Features



Note: Not shown: Kensington security lock.

Table 1. AP5022, AP5022FX, and AP5022S6D Ports and Connections

Callout	Port or Feature	Description
1	Reset	A reset button for rebooting the AP or to doing a factory reset.
2	Console	Micro USB console port for a serial connection between your management system and the AP. Use the port to troubleshoot the AP.
3	BLE	Bluetooth Low Energy. AP5022FX only.
4	USB	USB 2.0, Type A port
5	ETH0/PoE	Ethernet port 0.
6	ETH1/PSE	Ethernet port 1.
7	12vDC	12v connector for external DC power.
8	Antenna Connection	Break-out cable for antenna connections. AP5022FX only.

Box Contents

Confirm the following items shipped with your AP before you begin installation. Contact your dealer if any items are damaged or missing.

Table 2. Box Contents

Quantity	Item
1	AP5022, AP5022FX, or AP5022S6D
1	ACC-CBL-BRKOUT-12RPSMA breakout cable.
1	Regulatory guide
1	AH-ACC-BKT-AX-TB mounting bracket
2	Phillips pan head wood screws
2	Phillips head plastic screw-in anchors

Micro USB Console Port

Through the console port, you can make a serial connection between your management system and the AP. Use the SKU ACC-WIFI-MICROUSB if you need to order the Micro USB cable.

The console port can only be used with the Extreme Networks console cable. You will damage the AP if you use another cable.

Status LED Activity

Extreme Networks APs have a LED on top of the chassis. It shows the operational states for power, firmware updates, Ethernet and wireless interface activity, and alarms.

Table 3. ExtremeCloud IQ LED Activity

LED	Description
Dark	Power is off.
Solid white	The device power is on and the AP is ready to use. The device has successfully established a Control And Provisioning of Wireless Access Points (CAPWAP) connection to ExtremeCloud IQ and is operating normally.
Solid amber:	The device power is on and the access point is in boot up mode, or is running without a CAPWAP connection.
Fast-blinking amber	The IQ Engine firmware is updating.

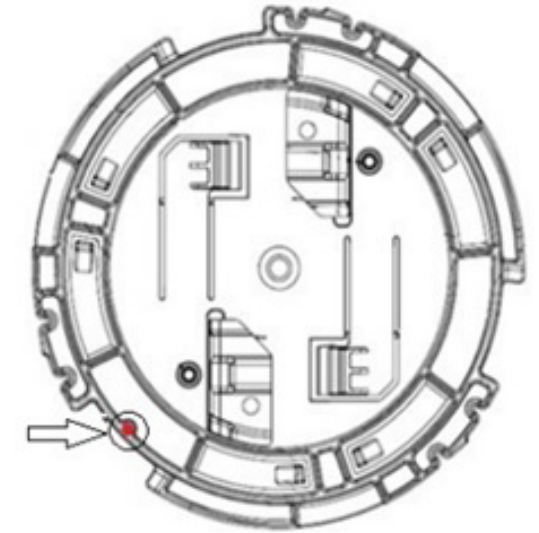
Table 4. ExtremeCloud IQ Controller Status LED Activity

LED	Description
Dark	Power is off or the AP is taken over by the controller. Configuration pushes down to AP from controller to turn off the LED.
Solid white	The AP is starting up or is already taken over by the controller.
Flashing fading white	Configuration pushes down to AP from controller helping you locate the AP by sight.
Solid amber	A firmware upgrade is occurring.
Fast-blinking amber	The AP is acquiring the DHCP IP.

Position the AP Before Installation

Line up the red dot on the access point and the bracket for ease of installation. The AP and bracket lock in place.

Fig. 3. AH-ACC-BKT-AX-TB Bracket Red Dot



Install the AP to a Wall with AH-ACC-BKT-AX-WL

Before you begin

You need the following items:

- One AP
- Three M3.5 screws and three screw-in anchors, shipped with the -WL bracket.
- One AH-ACC-BKT-AX-TB or one AH-ACC-BKT-AX-WL bracket.

Use the AH-ACC-BKT-AX-WL bracket when you need a 1.25 inch space between the wall and the AP. If you want less space, than use the AH-ACC-BKT-AX-TB bracket that comes with the AP.

1. Using the -WL bracket as a template, mark the drill mounting holes on the wall.
2. Drill mounting holes on the wall.
3. Bring the LAN cable from the wall through the bracket hole. Align the cable before attaching the bracket to the wall.



Note: Use a standard Ethernet cable if you want the cable to remain visible. A flat cable and a cable cap are required if you want to hide the Ethernet cable.

4. Attach the wall bracket to the wall using three M3.5 screws and three screw-in anchors.
5. Align the AP red dot against the three red dots on the -WL bracket.
6. Press the AP onto the bracket and rotate it clockwise about one-sixth turn. It locks in place.
7. Attach the network cable.

Install the AP to a Standard Flat Ceiling Rail with Sculpted Ceiling Tiles

The AP ships with a mounting bracket for standard 15/16 in. (24mm) wide t-bars or 9/16 in. (14mm) wide t-bar rails.

For nonstandard ceiling rail installations, see *"Install the Access Point on a Non-standard Ceiling Grid or a Wall"*.

1. Remove the ceiling tiles.
2. Align the accessory on the ceiling rail so that the accessory metal hinges are almost parallel to the sides of the ceiling rail.
3. Rotate the accessory clockwise until the metal hinges hook over the edge of the rail and the white tabs click in place.



Note: The two white tabs on the back of the accessory hold the ceiling rail in place. Use your finger and to push and to unhook one side of the white tab if you want to remove the accessory from the ceiling rail.

4. Attach the LAN cable Ethernet plug to the appropriate Access Point Ethernet receptacle.
5. Align the red dot on the back of the AP against the red dot on the bracket. The accessory has a circular tip that fits into the circular depression on the back of the access point.
6. Press and rotate the access point 1/8th turn clockwise until it clicks into place on the accessory.
7. Attach the Cat6 RJ45 cable to the ETH0 or ETH1 port
8. Replace the ceiling tiles.

Fig.4. Standard Ceiling Rail Installation

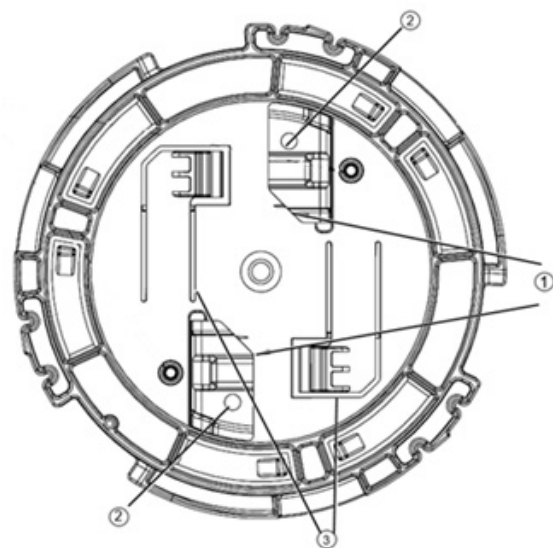


Table 5. Standard Rail Components

Callout	Description
1	Metal hinges on the AH-ACC-BKT-AX-TB bracket
2	Mounting holes for wall mounting
3	White tab on the AH-ACC-BKT-AX-TB bracket

Install the AP to a 9/16th-inch T-bar Ceiling

Before you begin

You need the following items:

- An AP
 - One AH-ACC-BKT-AX-TB accessory bracket if the t-bar bottom is flat
 - One AH-ACC-BKT-AX-IL accessory bracket if there is a protrusion in the center of the t-bar bottom
- You can mount the access point to a ceiling that has a 9/16 in. wide T-bar.

1. Remove the ceiling tiles.
2. Place the bracket on the ceiling rail in such a way that the accessory center is over the protrusion and the metal hinges are between perpendicular and about one-eighth of a turn from the sides of the ceiling rail.
3. Push up gently and rotate the bracket clockwise until the hinges hook over the edge of the rail and the white tabs click in place.



Note: There are two white tabs in the back of the bracket that holds on to the ceiling rail in place. Use your finger to pull and unhook one side of the white tab if you want to remove the accessory from the ceiling rail. Gently rotate the bracket counterclockwise and if there is resistance, the other white tab in the back of the accessory must also be released.

4. Gently rotate the bracket counterclockwise and if there is resistance, the other white tab in the back of the accessory must also be released.
5. Align the red dot on the back of the access point against the accessory bracket red dot.



Note: The accessory has a circular tip that fits into the circular depression on the back of the AP.

6. Press and rotate the access point clockwise about one-sixth of a turn until it locks into place on the accessory bracket.
7. Connect the network cable.
8. Place the cable cover over the Ethernet cable.
9. Replace the ceiling tiles.

Install the AP to a 15/16-inch T-bar Ceiling

Obtain the following items:

- One access point
- One ACC-BKT-TB-NF adapter
- One AH-ACC-BKT-AX-TB accessory.

Use the ACC-BKT-TB-NF bracket when you install the AP on a suspended ceiling with 15/16-inch grid system.

1. Remove the ceiling tiles.
2. Using the adapter guide on the top half of the ACC-BKT-TB-NF adapter, attach the -NF on to the ceiling rail.
3. Slide the other part of the -NF adapter onto the half attached to the ceiling rail.
4. Center the -TB accessory on the attached -NF parts.
5. Push up and rotate the -TB accessory clockwise until the metal hinges hook over the bottom halves of the -NF adapter ends and the plastic tabs on the -TB accessory click into place.
6. Align the red dot on the back of the AP against the -TB bracket red dot. The bracket has a circular tip that fits into the circular depression on the back of the AP.
7. Press and rotate the access point about one-eighth of a turn clockwise until it clicks into place on the accessory.
8. Connect the network cable.
9. Replace the ceiling tiles.

Install the AP to a Silhouette Ceiling

Before you begin

You need the following items:

- An indoor AP
- AH-ACC-BKT-AX-SL bracket.

You can mount the access point to a ceiling grid with 1/8 in. or 1/4 in. bottom opening.

1. Remove the ceiling tiles.
2. Place the bracket on the ceiling rail so that the accessory metal hinges are almost perpendicular to the sides of the ceiling rail with the ceiling rail over the center hole.
3. Lightly push onto the ceiling rail and rotate the accessory clockwise until the hinges hook over the edge of the rail and the white tabs click in place.



Note: There are two white tabs in the back of the bracket that holds on to the ceiling rail. Use your finger to pull and unhook one side of the white tab if you want to remove the accessory from the ceiling rail. Gently rotate the bracket counterclockwise and if there is resistance, the other white tab in the back of the accessory must also be released.

4. Align the red dot on the back of the access point against the accessory bracket red dot. The accessory has a circular tip that fits into the circular depression on the back of the AP.



Note: The accessory has a circular tip that fits into the circular depression on the back of the access point.

5. Press and rotate the access point clockwise until it locks into place on the accessory.
6. Connect the network cable.
7. Replace the ceiling tiles.

Install the AP to a Junction Box

Before you begin

You need the following items:

- An indoor AP
- ACC-BKT-AX-JB for junction box mounting.

Install a access point to a junction box if you want to power the AP using an electrical connection. The ACC-BKT-AX-JB accessory bracket is used when you need to install the access point on an indoor junction box.

It has two parts:

- A sheet-metal junction box hole plate.
- A plastic twist plate.

1. Remove the screws holding the junction box cover plate.
2. Remove the LAN cable from the cover plate.
3. Bring the LAN cable through the center hole of the metal bracket part. The LAN wire must be between the metal part and the plastic part during installation.
4. Place the ACC-BKT-AX-JB accessory metal part, with the bracket holes against the cover plate of the box.
5. Using the screws removed from the cover plate, find the bracket holes that align with the junction box screw holes.
6. Using the cover plate screws, attach the metal bracket part to the junction box.
7. Place the plastic part on the metal part, rotate it clockwise until you hear it click in place. The lock sets in place.

When installed correctly on a wall, the side arrows on the plastic part must be pointing up. There is a metal pull ring in the metal part that is used to unlock and remove the plastic part. To un-

lock the plastic part, pull out the pin's ring and turn the plastic part one-third of a turn counter-clockwise. Lift it apart.

8. Align the red dot on the back of the AP with the red dot on the plastic part.
9. Push the AP onto the plastic part and turn it clockwise until it locks in place.
10. Insert the RJ45 cable connector into the Ethernet connector on the AP.

Install the AP to a Beam

Before you begin

You need the following items:

- An indoor AP
- ACC-BKT-AX-BEAM mounting bracket

Find a location that supports the following requirements:

- The beam must be able to support the AP in all environmental conditions.
- The beam must be flat.
- Beam attachment area is at least at least 12.7 mm (0.5 in.) wide and as long as the access point's largest dimension.
- Beam mounting surface is at least at least 1.0 mm (0.040 in.) thick, but less than less than 16.5 mm (0.650 in.) thick.

If you are installing the AP in a warehouse or other industrial environments, then you might have to install the AP on a beam instead of a ceiling.

1. Align the red dot on the AP with the red dot on the accessory bracket.
2. Insert the plastic part posts into the AP back recess.
3. Push the AP onto the plastic part, and rotate it clockwise until it locks in place. If you can turn or twist the AP, it was not locked in place properly. Remove the AP and attach it again until it locks in place.
4. Connect the network cable.
5. Open the top screw as necessary and place the beam clip onto a beam. You must hold the AP when attaching the beam clip.
6. Tighten the beam clip top screw to a torque of 50 in-lbs.

Connect the AP to the Network

Before you begin

Obtain an Ethernet cable before you begin. Locate the Ethernet ports on the AP before you begin. Connect the AP to your network using one of the Ethernet ports and a network cable.

1. Connect the Ethernet cable to one of the Ethernet ports on the AP.
2. Connect the other end of the cable to the Ethernet port on the switch.

Secure the AP (Optional)

Before you begin

Obtain a Kensington security lock before you begin. Attach a Kensington lock to prevent theft or accidental damage to the AP. The AP's security is determined by the cable attachment or the radome breaking.

1. Securely attach the free end of the Kensington lock cable near the AP.
2. Unlock the Kensington lock.
3. Insert the rectangular lock end into the Kensington security slot on the AP.
4. Lock the Kensington lock.

Connect a Power Supply (Optional)

If you require an external 12V DC power supply, you can plug the power cord into the power connector at the back of the AP.
The LED on the top of the AP turns white when you connect the power supply.

Cleaning Guidelines

You can clean your APs with the following solutions:

- Hydrogen peroxide (a 3% solution)
- Chlorine bleach
- Sodium hypochlorite (a 0.05% solution)
- Ethyl alcohol (a 75% solution)
- Isopropyl alcohol (a 75% solution)
- White vinegar
- Sporidical (peracetic acid; a 0.5% solution)
- Water
- Baking soda (a 3:1 solution)
- Non-abrasive soap

Documentation

You can find documentation for all of your Extreme Networks products at the Extreme documentation portal at <https://supportdocs.extremenetworks.com/support/documentation/>.

Legal

Legal Notices

Extreme Networks, Inc. reserves the right to make changes in specifications and other information contained in this document and its website without prior notice. The reader should in all cases consult representatives of Extreme Networks to determine whether any such changes have been made. The hardware, firmware, software or any specifications described or referred to in this document are subject to change without notice.

Trademarks

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries. All other names (including any product names) mentioned in this document are the property of their respective owners and may be trademarks or registered trademarks of their respective companies/owners. For additional information on Extreme Networks trademarks, see:

www.extremenetworks.com/company/legal/trademarks/

Copyright © 2026 Extreme Networks, Inc. All Rights Reserved.



AP5022, AP5022FX, and AP5022S6D

QUICK INSTALLATION GUIDE

Scan to Download the ExtremeCloud IQ Companion Mobile Application

Commission, monitor, and troubleshoot devices easily with ExtremeCloud IQ Companion Mobile Application (supported on iOS and Android).

Use your mobile device camera to scan the serial number, capture installation images, assign or change device location, and network policy. The ExtremeCloud IQ Companion Mobile Application enables you to access the device CLI for troubleshooting and view device and client status.



ExtremeCloud IQ
Companion Android
Mobile Application



ExtremeCloud IQ
Companion iOS Mobile
Application

Scan for Product Support Details



ExtremeCloud IQ
Companion Mobile
Application Onboarding



Documentation



Product Videos