

## JoghExtremeWireless 802.11ax AP5010 and AP5010U Indoor Access Points

### AP5010 and AP5010U Overview

The AP5010 and AP5010U access points are high-performance 802.11ax Wi-Fi 6E, 6 GHz, 5 GHz band, and 2.4 GHz band access points designed for high-density indoor environments. The access points support IEEE 802.11ax Orthogonal Frequency-Division Multiple Access (OFDMA) multi-user access.

The access point can be installed on an indoor environment such as a ceiling rail, on non-standard ceilings, and on a wall.

The AP5010 and AP5010U access points have the following features:

- One multicolor LED status light  
For LED activity description, see "Status LED Activity Description"
- One light sensor located at the top of the device
- Two Ethernet ports - Eth0 and Eth1  
Ethernet ports (Eth0 and Eth1) automatically negotiate full-duplex connections with the connecting device.
  - Eth0 is 5/2.5/1GE/100 with Power over Ethernet (PoE)
  - Eth1 is 2.5/1GE/100 with PoE power sourcing equipment (PSE)  
These ports are auto-sensing and adjust to straight-through and crossover standard Cat6 or better Ethernet cables automatically. The access point receives power through an Ethernet connection to the ETH0 port from PSE that is compatible with the 802.3bt and 802.3at standards.
- One USB port  
Use the USB port to connect USB-based beacons such as iBeacon and Internet of Things (IoT) devices. Remove the protective cover to access the USB port.
- One micro USB console port
- One reset button
- One Kensington lock  
The best practice is to use Kensington locks for locking the device.
- Temperature:
  - Operating temperature: 0 °C to +50 °C (+32 °F to +122 °F)
  - Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F)
- Relative humidity: 0% to 95% non-condensing

### Power Specifications

- IEEE 802.3bt PoE Power
- Ultra-wideband (UWB) support on AP5010U

### Power Options

- Power Draw:
    - Typical: 21.0 W; Max: 25.5 W
  - 802.3bt PoE capable
  - Gigabit Ethernet port
- For detailed device and radio specifications, refer to the *AP5010 Data Sheet*.

Figure 1 AP5010 and AP5010U access points hardware components

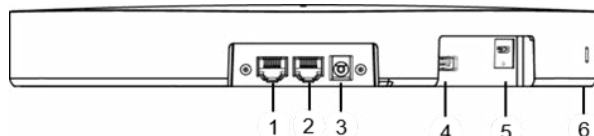


Table 1 AP5010 access point hardware ports

Callout	Description
1	Eth0/PoE+
2	ETH1
3	12V DC
4	USB port
5	Console
6	Security Kensington lock

### Status LED Activity Description

The AP5010 and AP5010U access points have one status light on top of the chassis. The status light conveys operational states for system power, firmware updates, Ethernet and wireless interface activity, and major alarms.

- Dark: Power is off.
- Solid white: The device power is on and the access point 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.
- Slow-blinking white: The device has a CAPWAP connection to ExtremeCloud IQ, but is operating on 802.3at power instead of 802.3bt power.
- Solid amber: The device power is on and the access point is in boot up mode, or is running without a CAPWAP connection.
- Slow-blinking amber: The device has no CAPWAP connection to ExtremeCloud IQ, and is operating on 802.3at power instead of 802.3bt power.
- Fast-blinking amber: The device is updating its IQ Engine firmware.

### Micro USB Console Port

Through the console port, you can make a serial connection between your management system and the access point.



**Note:** When you connect to the device using the micro USB Console port, the management station from which you connect to the device must have a VT100 emulation program, such as Tera Term Pro® (a free terminal emulator) or Hilgraeve HyperTerminal® (provided with Windows operating systems from XP forward).

### AP5010 and AP5010U Box Contents

Ensure that the following items are available:

Table 2 Contents of the AP5010 Box

Quantity	Item
1	An AP5010 or AP5010U access point
1	Mounting bracket for prelude T-bar ceiling installation (part number AH-ACC-BKT-AX-TB)
1	Quick Reference Guide

All optional brackets and accessories are sold separately. For detailed installation instructions about all mounting procedures, refer to the *ExtremeWireless AP5010 Access Point Installation Guide* and the *802.11ax and Cloud Access Points Accessories Guide* in the Extreme Networks Documentation Support site.

### Position the Access Point before Installation

There is a red dot on the back of the access point and the bracket that will work as a guide to position the access point for installation. Line up the red dot on the access point and the bracket for ease of installation.

### Install the Access Point



**Electrical Hazard:** Only qualified personnel must perform installation procedures.

Use these instructions as guidelines for mounting and connecting the AP5010 or the AP5010U access point easily and safely.

### Install the Access Point on a Standard Ceiling Rail

The AP5010 and AP5010U access points ship with a mounting bracket for standard 15/16 in. dropped ceiling grid. For non-standard 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 in such a way 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:** There are two white tabs in the back of the accessory that holds on to the ceiling rail in place. Use your finger to push and unhook one side of the white tab if you want to remove the accessory from the ceiling rail.

Figure 2 AH-ACC-BKT-AX-TB bracket

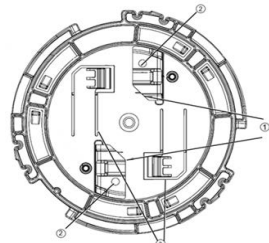


Table 3 AH-ACC-BKT-AX-TB bracket parts description

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

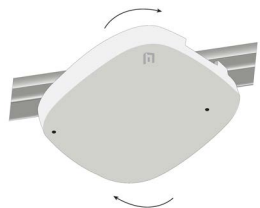
- 4 Attach the Ethernet port cap to the access point Ethernet port. For more information about Ethernet cap, refer to Ethernet Cap Accessory Information on the *802.11ax and Cloud Access Points Accessories Guide*.
- 5 Align the red dot on the back of the access point against the bracket red dot.



**Note:** 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.

Figure 3 AP5010 or AP5010U access point ceiling install



- 7 Attach the Cat6 RJ45 cable to the ETH0 or ETH1 port.
- 8 Replace the ceiling tiles.

### Install the Access Point on a Non-Standard Ceiling Grid or a Wall

For detailed non-standard ceiling grid installation or wall installation instructions, refer to the *802.11ax and Cloud Access Points Accessories Guide*.

The access point can be installed on a non-standard ceiling grid using the following accessories:

Table 4 Non-standard ceiling grid and wall accessories information

Bracket part number	Description
AH-ACC-BKT-AX-TB	Mounting bracket for Prelude ceilings (15/16 in. ceiling grid), Suprafine ceilings (9/16 in. ceiling grid), and walls
AH-ACC-BKT-AX-IL	Mounting bracket for Interlude (9/16 wide T-bar with protrusion) ceilings
AH-ACC-BKT-AX-SL	Mounting bracket for Silhouette ceilings (ceiling grid with 1/8 in. or 1/4 in. bottom opening)
ACC-BKT-AX-JB	Junction box or wall mounting for indoor access points
ACC-BKT-AX-BEAM	Beam mounting for indoor access points
AH-ACC-BKT-AX-WL	Mounting bracket for direct-to-wall installations



**Note:** The default bracket for wall installation is the ACC-BKT-AX-JB bracket. Order the -JB bracket for new wall installations. The AH-ACC-BKT-AX-WL bracket is for users who already have the -WL brackets.

### Lock the Access Point after Installation

Secure the access point by using the Kensington lock on the side of the access point. The security feature is used to prevent the access point from being removed from the mounting accessory.

### Antenna Information

The access points have internal antennas.

- 4 Dual-band 2.4G/5G antenna
- 4 6G band antenna
- 2 Dual 5G/6G antenna
- 1 BLE antenna
- 1 UWB antenna (for AP5010U only)

### 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 AP5010 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

Ce produit est destiné à un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et les règles s'y rapportant. L'installation et les réglages ne doivent pas être modifiés par l'utilisateur final.

#### Procédure d'installation

Consultez le manuel d'utilisation *ExtremeWireless AP5010 Access Point Installation Guide*.



**Warning: Avertissement:** Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

