

Extreme Wireless 802.11be
Wi-Fi 7 Indoor AP3020W

Overview of AP3020W

The AP3020W is an ExtremeCloud IQ managed, Wi-Fi 7 (802.11be) universal indoor wall plate access point (AP). It has a dual radio design with two 2x2 radios for use across the 2.4 GHz and 5 GHz or 5 GHz and 6 GHz bands. It also features a dual IoT radio and is light sensor ready.

Use these instructions as you mount and connect the AP3020W.



Fig.1 AP3020W.

Technical Specifications

The AP3020W access point has the following features and specifications.

Radios:

- Two (2) radios (2.4 and 5 GHz (2x2:2)); (5 and 6 GHz (2x2:2)).
- Two (2) IoT radios (Thread and Zigbee ready, Bluetooth 5.4 Low Energy, IEEE 802.15.4).

Ports:

- Four (4) Ethernet ports with RJ45 connectors:
 - ETH0: 100/1000/2500 Mbps auto-sensing Ethernet Power over Ethernet (PoE) port with PoE in
 - ETH1-3: 10/100/1000 Mbps auto-sensing Ethernet port. ETH1 has PoE out 15.4W (requires 802.3bt on ETH0)
- Two (2) RJ45 Pass through ports (Connected)
- One (1) USB 2.0, Type A, 5V/1A
- 802.3az Energy-Efficient Ethernet (EEE)

One (1) Console port for use by engineers only. End users will not use the console port

Security:

- One Kensington security slot.
- Trusted Platform Module (TPM).

Power Consumption:

- 802.3af Input: Typical 11.6 W, Max 14.5 W
- 802.3at Input: Typical 19 W, Max 22 W (with 5 W USB)
- 802.3bt Input: Typical 35 W, Max 38 W (with 5 W USB and PSE)
- 12V DC Input: Typical: 17 W, Max: 20 W (with 5 W USB)

Physical Dimensions:

- Dimensions: 199 mm × 128 mm × 40mm (7.83 in. × 5.04 in. × 1.57 in.)
- Weight: 0.56 kg (1.23 lbs)

Temperature:

Operating: 0°C to +40°C (32°F to 104°F)
Storage: -40°C to +70°C (-40°F to 158°F)
Humidity: 0% to 95% (non-condensing)

Enclosure: Plastic Top, Aluminum Bottom

Fig.2 AP3020W Front

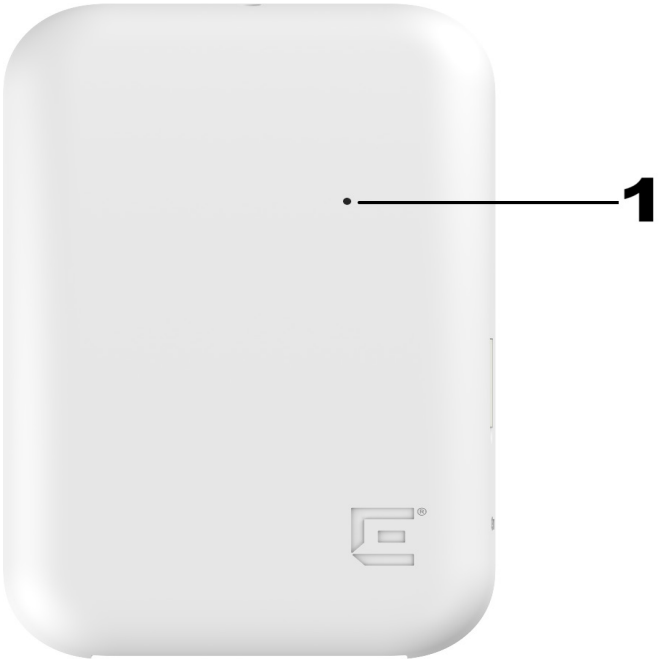


Table 1. Front LED

Callout	Port
1	LED

Fig.3 AP3020W Bottom

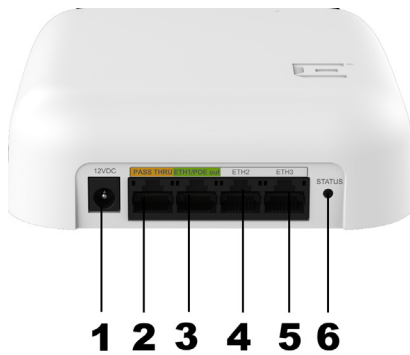


Table 2. Bottom Ports and Connectors

Callout	Port
1	12-volt DC connector
2	Pass Thru
3	ETH1/PoE Out (10/100/1000 Mbps auto-sensing Ethernet port)
4	ETH2 (10/100/1000 Mbps auto-sensing Ethernet port)
5	ETH3 (10/100/1000 Mbps auto-sensing Ethernet port)
6	Status

Fig. 4 AP3020W Rear and Side Ports

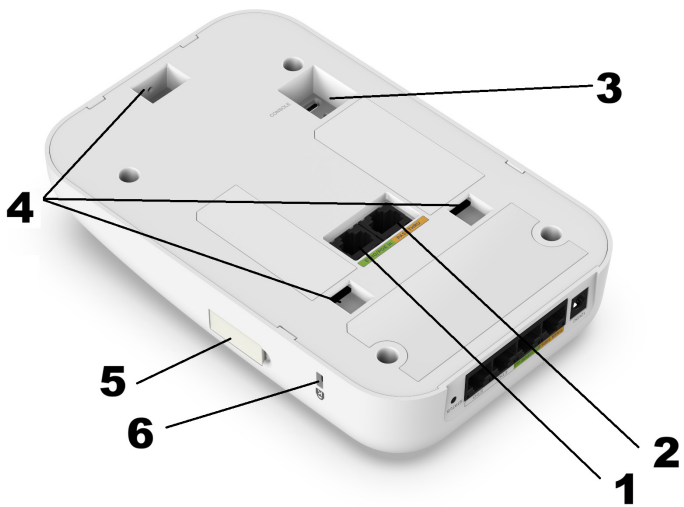


Table 3. Rear and Side Ports and Connectors

Callout	Port
1	ETH0/PoE In (100/1000/2500 Mbps auto-sensing Ethernet PoE port)
2	Pass Thru
3	Console
4	Locking slot for installation
5	USB Port with Dust Cover
6	Kenington Security Slot

Box Contents

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

Table 4. Box contents

Quantity	Item
1	AP3020W
1	Ethernet cable.
1	Regulatory document
1	ACC-BKT-WP-AP3020W mounting bracket
2	Philips 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 access point. 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 could damage the AP if you use another cable.

Status LED Activity

The AP3020W has a LED on top of the chassis. It shows the operational states for power, firmware updates, Ethernet and wireless interface activity, and alarms.

Table 5. ExtremeCloud IQ LED Activity

LED	Description
Dark	Power is Off.

LED	Description
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 6. 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 the user locate the AP by sight.
Solid amber	A firmware upgrade is occurring.
Fast-blinking amber	The AP is acquiring the DHCP IP.

Install the AP on a Wall

Before you begin

Note the following:

- The mounting surface must be able to support the AP in all environmental conditions.
- The mounting surface must be flat.

Hardware required for wall installation:

- One (1) AP3020W
- One (1) ACC-BKT-WP-AP3020W mounting bracket
- Two (2) pan head M3.5 × 16 mm long screws for solid wall or anchor attachment
- Two (2) 25 mm long white plastic screw-in anchor

You will also need a Phillips screwdriver, a Torx screwdriver, and a pencil. .

- Using the wall plate 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.
- Insert the Ethernet cable into the ETH0 port.If there is a system LAN wire in the wall, use the RJ45 receptacle on it. Attach one end of the cable into the receptacle and the other end into the ETH0 port.
- Insert the AP 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 AP in place.

Install the AP on a Wall Using the ACC-BKT-AX-WP-EXT Bracket

Hardware required for installation:

- One (1) AP3020W

- One (1) in-box wall plate stainless-steel bracket
- Two (1) pan head M3.5 × 38 mm long screws for solid wall or anchor attachment
- Two (2) 25 mm long white plastic screw-in anchors
- One (1) ACC-BKT-AX-WP-EXT accessory
- Four (4) Phillips washer pan head M2.5 × 7 mm long screws to attach the extension to the wall plate bracket
- One (1) flat head T8 security Torx M2.5 × 6.5 mm long locking screw



Note: There are break-out tabs on the short sides of the -EXT accessory. The break-out tabs are used to bring in the cables that are outside the wall. Using the break-out tabs will ensure that the system cable is secured from being removed.

Install the AP using the in-box stainless-steel wall plate bracket and the ACC-BKT-AX-WP-EXT accessory to a wall. You have two options for cable connection to the AP:

- Use the WS-CAB-RJ45-FLT01 RJ45 cable (P/N 30525)
 - Use the smaller RJ45 flat cable that ships with the AP.
1. Using the stainless-steel mounting bracket as a template, mark and drill two mounting holes on the wall.
 2. Prepare the -EXT accessory for use with WS-CAB-RJ45-FLT01 cable. Step 2 is applicable only if you use the WS-CAB-RJ45-FLT01 cable. If you use the smaller RJ45 flat cable that is shipped with the AP, move on to Step 3.
 - To access the break-out tabs, use a wire cutter to cut the break-out tabs on the -EXT accessory. You can use either the single break-out tab on one side of the accessory or the double break-out tabs on the other short side of the accessory.
 - Route the system cable through the cut out on the -EXT accessory before you attach the stainless-steel bracket to the -EXT accessory.
 - Attach the system cable to the WS-CAB-RJ45-FLT01 RJ45 receptacle.
3. Attach the wall plate bracket to the extension accessory using four Phillips washer pan head M2.5×7 mm long screws.
 4. Attach the WS-CAB-RJ45-FLT01 RJ45 cable to the ETH0 port on the AP. For the smaller RJ45 flat cable that comes with the AP, attach the cable to the rear ports on the AP.
 5. Align the stainless-steel mounting bracket to the drilled holes and attach the bracket to the wall using the pan head M3.5 × 38 mm long screws. Use screw-in anchors for drywall mounting.
 6. This step is applicable only if you use the smaller RJ45 flat cable. Connect the system cable to the pass through port located in the user port access section.
 7. Align the AP back slots with the stainless-steel bracket AP holding tabs, and then slide the AP onto the bracket until it is fully seated in place.
 8. Using a security Torx T-8 or a VT-8 screw, secure the bracket locking tab for physical security.

Install the AP on a Desk Stand

Hardware required for junction box installation:

- One (1) AP3020W
- One (1) ACC-BKT-DESKSTD-AP3020W accessory
- One (1) flat head T8 security Torx M2.5×6.5 mm long locking screw
- Two (2) Phillips flat head M3.5 × 12 mm long self-tapping wood screws, if you want to fix the desk stand in place

You will need a Torx screwdriver.

Use the desk stand accessory to install the AP to a desk.

1. Place the desk stand on the installation surface.
2. If desired, attach the desk stand to the installation surface using two Phillips flat head M3.5×12 mm long self-tapping wood screws.
3. Line up the AP on the mounting tabs of the desk stand.
4. Slide the AP on the desk stand until it is fully seated and lock it in place.
5. Attach the security locking tab screw to the security locking tab on the desk stand, and lock the AP in place.
6. Route the RJ45 cable through the plastic clip on the desk stand.
7. Insert the RJ45 cable into the pass through port on the AP.

Connect the AP to the Network

Before you begin

You will need a Ethernet cable. 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.

Connect a Power Supply

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 lights up white when you connect the power supply. See *Status LED Activity* for more information.

For more information about installing the AP, see *Extreme Wireless Access Point AP4020 Installation Guide*.



Taiwan - This product shall be powered by a power supply that complies with the applicable standard requirements (domestic certification). At least one recommended brand and model of the power supply shall be specified. This product is recommended to be powered using a standard-compliant (domestically certified) power supply (Phihong, POE60U-BTA), and the electrical specifications of this power supply are as follows: output specs: 56V / 1.07A.

Secure the Access Point after Installation (Optional)

Before you begin

You will need a Kensington security lock.

Secure the access point from damage or theft. 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.

Downloads

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

If you need to manually download the applications, then you can use the URLs below.

- ExtremeCloud IQ Companion Mobile: Application Onboarding: <https://extremecloudiq.com/login>
- ExtremeCloud IQ Companion Android Mobile Application : <https://play.google.com/store/apps/details?id=com.extremenetworks.xiqmobileapp>
- ExtremeCloud IQ Companion iOS Mobile Application: <https://apps.apple.com/us/app/extremecloud-iq-companion/id1526789768>

Documentation

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

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AP3020W

Access Point

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.



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