

ExtremeWireless 802.11ax Wi-Fi 6E AP3000X Indoor Access Point

AP3000X Overview

The AP3000X access point is an indoor model 802.11ax Wi-Fi 6E access point with external antennas. Out of the four external antennas on the unit, two 6G external antennas come built-in attached to the unit and cannot be removed. The other two 2.4G/ 5G antennas are in the box. For information on antennas that can be purchased separately, see "External Antenna Information".

The AP3000X can be mounted on a flat surface such as a wall, solid flat ceiling, to a junction box or a gang box, and can be installed on a suspended ceiling or a drop ceiling.

The AP3000X access point has the following features:

- Radios:
 - Two 802.11ax radios (one 2X2 2.4GHz and 6 GHz radio, and one 2X2 5 GHz radio)
 - One IoT Radio (2.4 GHz)
- Console port: Micro USB
- Two Ethernet ports (Eth0 and Eth1)
 - Eth0: 2500/1000/100 Mbps auto-negotiation Ethernet port, RJ45, Power over Ethernet (PoE) at 802.3at
 - Eth1: 1000/100/10 Mbps, RJ45
- One multicolor status light
- One reset button
- One Kensington lock
- One USB 2.0 type A connector
- Power: PoE 802.3af and 802.3at (see [Table 1](#) for details) Antennas: two external omni-directional 2.4G/5G dual-band antennas, two 6G non-removable antennas, and one Bluetooth Low Energy (BLE®) antenna
- Temperature: -20°C to +55°C (-4°F to +131°F)
- Enclosure: Plastic

Table 1 AP3000X Power source

Power source	Description
Power over Ethernet (PoE)	Power is provided through the 2.5G Ethernet port of AP3000X, compliant to be powered with 802.3af and 802.3at to provide full functionality. For reduced functionality, use 802.3af.
External 12V DC power supply (optional; ordering part #37215-PWR 12VDC/2A, 2.5mm x 5.5mm connector)	Power is provided through an external DC power supply plugged into an AC source.

Figure 1 AP3000X access point hardware components



Table 2 Side ports on the AP3000X access point

Callout	Description
1	Kensington security slot
2	USB port
3	Console port
4	12VDC power
5	ETH1
6	ETH0 and PoE+

Status LED Activity Description

The AP3000X access point has one status light on top of the chassis that shows operational states for system power, firmware updates, Ethernet and wireless interface activity, and major alarms.

- Steady white: 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 802.3af power instead of 802.3at power.
- Steady amber: The device is initializing, rebooting, or is running without a CAPWAP connection.
- Slow-blinking amber: The device has no CAPWAP connection to **ExtremeCloud IQ** and is operating on 802.3af power instead of 802.3at power.
- Fast-blinking amber: The device is upgrading its IQ Engine firmware.
- Dark: power is off.

AP3000X Box Contents

Ensure that the following items are available:

Table 3 Contents of the AP3000X Box

Quantity	Item	Quantity	Item
1	AP3000X access point	2	Phillips pan head wood screws
1	AP3000X Quick Reference Guide	2	Screw-in anchors
1	AH-ACC-BKT-AX-TB mounting bracket	2	2.4 GHz/5 GHz external antennas (AI-DS0305360-RPSMA)

All optional brackets and accessories are sold separately. For installation instructions about all mounting procedures, see *ExtremeWireless Access Point AP3000X Installation Guide* in the *Extreme Networks Documentation Support* site.

Install the Access Point

Electrical Hazard: Only qualified personnel should perform installation procedures.

Use these instructions as guidelines for mounting and connecting the AP3000X access point easily and safely. The AP3000X comes with the AH-ACC-BKT-AX-TB mounting bracket that can be used to mount the access point on flat surfaces such as solid flat ceilings or wood walls.

Note: The mounting procedures for installing the access point to non-standard ceilings are covered in the *ExtremeWireless Access Point AP3000X Installation Guide*.

Install the Access Point on a Wall or a Flat Ceiling

Use the AH-ACC-BKT-AX-TB mounting bracket for flat surface wall or solid ceiling installation.

Pre-installation checklist:

The following hardware is required for installing the AH-ACC-BKT-AX-TB accessory on a wall or a solid ceiling:

- An AP3000X access point
- One AH-ACC-BKT-AX-TB mounting bracket
- Two M3.5 pan head wood screws and two screw-in anchors

Note: The wood screws and screw-in anchors come in a separate plastic bag.

- 1 Using the AH-ACC-BKT-AX-TB mounting bracket as a template, mark and drill two mounting holes.
- 2 Attach the bracket to the wall using two M3.5 pan head wood screws. Use push-in anchors or screw-in anchors for drywall or plastic board installations on vertical walls.

Note: Screw-in anchors must be used for ceiling installations.

- 3 Attach the AP to the bracket. Align the red dot on the bracket and the AP.
- 4 Press and rotate the access point 1/8 turn clockwise until it clicks into place.

Note: For wall installation, the 'E' logo must be on the left side of the access point as shown in Figure 2.

- 5 Attach the Cat5e RJ45 cable to the ETH0 port on the access point.

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

For non-standard ceiling grid installation or wall installation instructions, see *Wi-Fi 6 802.11ax Access Points Accessories Guide*.

The AP can be installed on a non-standard ceiling grid with 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. The ceiling tile sides must be flat
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 APs.
ACC-BKT-AX-BEAM	Beam mounting for indoor access points
AH-ACC-BKT-AX-WL	Mounting bracket for direct-to-wall installations when a 1.25 inches of space is desired between the wall and the access point
ACC-BKT-AX-NF	Mounting bracket for 15/16 in. wide T-bars on protruded ceiling tiles.

Bracket part number Description

AH-ACC-BKT-916-KIT Mounting bracket for 9/16 in. wide T-bars on protruded ceiling tiles.

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

External Antenna Information

The AP3000X access point comes with four external antenna connectors.

Figure 2 AP3000X external antenna port connectors



Table 5 AP3000X external antenna ports radio information

Radio modes	Antenna ports	
	Radio port (2.4G/5G)	Radio port (6G)
1	2.4G and 5G	-
2	5G	6G

Table 6 AP3000X radio ports support information

Radio port	Antenna type
2.4 GHz/5 GHz	Dual-band omni
6 GHz	Omni

Note: For antenna specifications and installation information, see the *Wi-Fi 6 (802.11ax) Antenna Specifications Guide*.

Country of Manufacture

Manufacturer: Senao Networks, Inc
Address: No. 500, Fusing 3rd Rd., Hwa-Ya Technology Park, Kuei-Shan Dist., Taoyuan City 333001, Taiwan

Regulatory and Compliance Information

Safety Guidelines

This section contains notices that are intended to protect your personal safety and to prevent damage to the equipment.

Qualified Personnel:

Electrical Hazard: Only qualified personnel should perform installation procedures. Within the context of the safety notes in this documentation, qualified persons are defined as persons who are authorized to commission, ground and label devices, systems, and circuits in accordance with established safety practices and standards. A qualified person understands the requirements and risks involved with installing outdoor electrical equipment in accordance with national codes.

Federal Communications Commission (FCC) Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference,

and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 47 cm between the radiator and your body.

Operation in the band 5925-7125MHz subject to, (1) FCC regulations restrict the operation of this device to indoor use only, (2) the operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet, and (3) operation of transmitters in the 5.925 GHz - 7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

Conformité Européenne (CE) Information

Warning: CE co-location MPE Statement: This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

Selling Countries:

	AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE	
IT	LV	LT	LU	MT	NL	PL	
PT	RO	SK	SI	ES	SE	UK (NI)	

CE Marking and European Area (EEA)

Warning: This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL – www.anatel.gov.br.

O uso deste equipamento é restrito a ambientes fechados e proibido em plataformas petrolíferas, carros, trens, embarcações e no interior de aeronaves abaixo de 3.048 m (10.000 pés).

Mexico Compliance Statement

El funcionamiento de este equipo está sujeto a las siguientes dos condiciones:

CE - The device is restricted to indoor use only when operating in the 5945 to 6425 MHz frequency range.

UK - The device is restricted to indoor use only when operating in the 5945 to 6425 MHz frequency range.

Hereby, Extreme Networks declares that the radio equipment AP3000X-WW is in compliance with Radio Equipment Regulations 2017.

Operation on oil platforms, cars, trains, boats, and aircraft shall be prohibited except for on large aircraft flying above 10,000 ft.

For full text of the UK Declaration of Conformity, please contact Extreme Regulatory Compliance at compliancerequest@extremenetworks.com.

Extreme Networks UK Address

Extreme Networks, UK Ltd.

250 Longwater Avenue Green Park,

1st Floor, Reading, UK

Extreme Networks EU Importer Address

Extreme Networks, Ireland Ops Ltd.

Rineanna House Shannon Industrial Estate,
Shannon, V14CA36, Ireland

Industry Canada Notice

Antenna type/Type d'antenne	Frequency range (GHz)/ Gamme de fréquences (GHz)	Antenna gain (dBi)/ Gain d'antenne (dBi)	Impedance (Ohm)/ Impédance (Ohm)
Dipole	2.4/5	3.04/4.96	50
Dipole	2.4/5	3.04/4.96	50
Dipole	2.4/5	3.23/5.22	50
Dipole	2.4/5	3.23/5.22	50
Omni	2.4/5	5/8	50
Omni	2.4/5	5/8	50
Panel	2.4/5	7.5/7.5	50
Panel	2.4/5	2.97/4.94	50
Panel	2.4/5	2.94/4.62	50
Dipole	6	5.49	50
Dipole	6	5.49	50
PIFA	2.4	4.02	50

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation in the band 5925 to 7125 MHz is subject to the following two conditions: (1) IC regulations restrict the operation of this device to indoor use only, and (2) the operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.

Cet appareil contient un ou des émetteurs/récepteurs exempts de licence conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Fonctionnement dans la bande 5925 à 7125 MHz sous réserve des deux conditions suivantes: (1) Les réglementations de la IC limitent le fonctionnement de cet appareil à une utilisation en intérieur uniquement, et (2) le fonctionnement de cet appareil est interdit sur les plates-formes pétrolières, les voitures, les trains, les bateaux et les avions, sauf que le fonctionnement de cet appareil est autorisé dans de grandes avion en vol au-dessus de 10 000 pieds.

Caution: The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Caution: Avertissement: les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1 This device may not cause interference.

2 This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1 L'appareil ne doit pas produire de brouillage;

2 L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution: This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with minimum distance 28 cm between the radiator and your body.

Caution: Avertissement: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 28cm de distance entre la source de rayonnement et votre corps.

This radio transmitter [IC ID: 4141B-AP3000] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have

a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Cet émetteur radio [IC ID: 4141B-AP3000] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne répertoriés sous, avec le gain maximal autorisé indiqué. Les types d'antenne non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement interdits pour une utilisation avec cet appareil.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 28 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 28 cm entre le radiateur et votre corps.

Taiwan Regulatory Statement

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

本器材須經專業工程人員安裝及設定，始得設置使用，且不得直接販售給一般消費者。

無線資訊傳輸設備避免影響附近雷達系統之操作。

請至此連結閱讀中文說明：[https://www.extrenenetworks.com/support/documentation/](https://www.extremenetworks.com/support/documentation/)

Supplement to Product Instructions

單元 Unit	限制物質及其化學符號 Restricted substances and its chemical symbols					
	鉛(Lead) (Pb)	汞(Mercury) (Hg)	鎘(Cadmium) (Cd)	六價鉻 Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
金屬零件 (Metal Parts)	○	○	○	○	○	○
電路板組 (Circuit Modules)	-	○	○	○	○	○
電纜及電纜组件 (Cables & Cable Assemblies)	○	○	○	○	○	○
塑料和聚合物零件 (Plastic and Polymeric parts)	○	○	○	○	○	○

備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。

Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. “-”係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2 : “-” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. “-”係指該項限用物質為排除項目。

Note 3 : The “-” indicates that the restricted substance corresponds to the exemption.

ExtremeWireless™ Indoor Access Point

Quick Reference

AP3000X

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
iOS Mobile Application

ExtremeCloud IQ Companion
Android Mobile Application



ExtremeCloud IQ Companion
Mobile Application Onboarding

Documentation



Notice

Copyright © 2024 Extreme Networks, Inc. All Rights Reserved.

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, please see: www.extrenenetworks.com/company/legal/trademarks/

Documentation, Installation Videos, and Support

For product support, including Documentation and Installation Videos, visit: www.extrenenetworks.com/documentation



P/N 9037548-00 Rev AE