

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 omnidirectional 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 Top view of AP3000X



Figure 2 AP3000X access point hardware components



Table 2 Side ports on the AP3000X access point

Callout	Description
1	Console port
2	USB port
3	Reset button
4	Kensington security slot

Status LED Activity Description

The AP3000X access point has 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.

- 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
1	AP3000X access point
1	AP3000X Quick Reference
1	AH-ACC-BKT-AX-TB mounting bracket
2	Phillips pan head wood screws
2	Screw-in anchors
2	2.4 GHz/5 GHz external antennas

All optional brackets and accessories are sold separately. For detailed installation instructions about all mounting procedures, refer to the *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
 - Two screw-in anchors

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

- Using the AH-ACC-BKT-AX-TB mounting bracket as a template, mark and drill two mounting holes.
- 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.

- Attach the access point to the bracket by aligning the red dot on the bracket and the access point.
- Press and rotate the access point 1/8 turn clockwise until it clicks into place on the accessory.

Note: For wall installation, the 'E' logo must be on the left side of the access point as shown in [Figure 1](#).

- 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 detailed non-standard ceiling grid installation or wall installation instructions, refer to the *Wi-Fi 6 802.11ax 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
	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-TB	

Bracket part number	Description
	Mounting bracket for Interlude (9/16 wide T-bar with protrusion) ceilings
AH-ACC-BKT-AX-IL	
	Mounting bracket for Silhouette ceilings (ceiling grid with 1/8 in. or 1/4 in. bottom opening)
AH-ACC-BKT-AX-SL	
	Junction box or wall mounting for indoor access points
ACC-BKT-AX-JB	
	Beam mounting for indoor access points
ACC-BKT-AX-BEAM	
	Mounting bracket for direct-to-wall installations when a 1.25 inches of space is desired between the wall and the access point
AH-ACC-BKT-AX-WL	

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.

External Antenna Information

The AP3000X access point comes with four external antenna connectors and is compatible with the ML-2452-APA2-Q2 and ML-2452-HPAG5A8-01 antennas.

Note: The ML-2452-APA2-Q2 and ML-2452-HPAG5A8-01 antennas must be purchased separately. The ML-2452-HPAG5A8-01 antenna requires the 25-85392-01R adapter for mounting.

Figure 3 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, refer to the *Wi-Fi 6 (802.11ax) Antenna Specifications 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 Access Point AP3000X 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 modifies par l'utilisateur final.

ProcEDURE d'installation

Consulter le manuel d'utilisation [ExtremeWireless Access Point AP3000X 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.

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.

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.

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.

Conformit  europ enne (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.

Other Countries

Brazil

Este produto está homologado pela ANATEL, de acordo com os procedimentos regulamentados pela Resolução nº. 242/2000 e atende aos requisitos técnicos aplicados. 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

Mexico Compliance Statement

La operacion de este equipo esta sujeta a las siguientes dos condiciones

- 1 es posible que este equipo o dispositivo no cause interferencia perjudicial y
- 2 este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operacion no deseada.

The operation of this equipment is subject to the following two conditions:

- 1 It is possible that this equipment or device does not cause disruptive interference and
- 2 This equipment or device must accept any interference, including interference that may cause undesired operation.

UK Statement and CE Statement

This equipment complies with the UK and EEA 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 frequency and the maximum transmitted power in the UK and European Conformity are listed below:

CE	UK
2400-2483.5 MHz: 19.98 dBm	2400-2483.5 MHz: 19.98 dBm
2400-2483.5 MHz(802.15.4): 8.03 dBm	2400-2483.5 MHz(802.15.4): 8.03 dBm
2400-2483.5 MHz (BLE): 8.0 dBm	2400-2483.5 MHz (BLE): 8.0 dBm
5150-5725 MHz: 29.96 dBm	5150-5725 MHz: 29.96 dBm
5725-5850MHz: 13.97 MHz	5720-5850 MHz: 29.97 dBm
5945-6425 MHz: 22.99 dBm	5945-6425 MHz: 22.99 dBm

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

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.

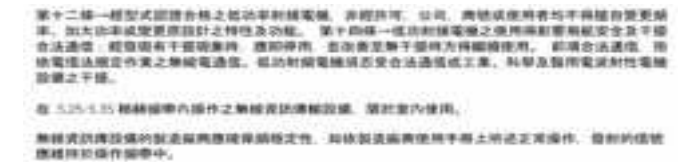
Cet émetteur radio [IC ID: 4141B-AP3000] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne répertoriés sous, avec le gain maximal autorisé indiqué. Les types d'antenne non inclus dans cette liste qui ont un gain supérieur au gain maximum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

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

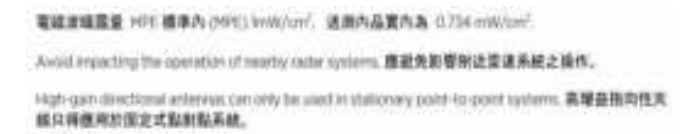
This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 28 cm between the radiator and your body.

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



Taiwan Maximum Permissible Exposure (MPE) Warning



European Waste Electrical and Electronic Equipment (WEEE) Notice



In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

- 1 The symbol above indicates that separate collection of electrical and electronic equipment is required.
- 2 When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
- 3 It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.

4 It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated. For information about the available collection system, please contact Extreme Environmental Compliance at Green@extremenetworks.com.

Supplement to Product Instructions



Declaration of Conformity in Languages of the European Community

English Hereby, Extreme Networks, declares that the radio equipment type (AP3000X-WW) is in compliance with Directive 2014/53/EU. For full text of the EU Declaration of Conformity, please contact Extreme Regulatory Compliance at compliancerequest@extremenetworks.com

Finnish Täten Extreme Networks vakuuttaa, että Radio laite tyyppi (AP3000X-WW) on direktiivin 2014/53/EU mukainen.EU vaatimustenmukaisuusvakuutuksen täydellisestä tekstistä ota yhteyttä äärimmäisiin viranomais säädöksiin osoitteessa compliancerequest@extremenetworks.com

Dutch Extreme Networks verklaart hierbij dat het type radioapparatuur (AP3000X-WW) in overeenstemming is met richtlijn 2014/53/EU.Voor de volledige tekst van de EU-conformiteitsverklaring u contact opnemen met extreme regelgeving op compliancerequest@extremenetworks.com

French Par la présente, Extreme Networks déclare que le type d'équipement radio (AP3000X-WW) est conforme à la directive 2014/53/UE.Pour le texte intégral de la Déclaration de conformité de l'UE, veuillez communiquer avec Extreme Regulatory Compliance à compliancerequest@extremenetworks.com

Swedish Härmed intygar Extreme Networks att radioutrustning typ (AP3000X-WW) överensstämmer med direktiv 2014/53/EU.För fullständig text av EU-försäkran om överensstämmelse, vänligen kontakta Extreme regellefterlevnad på compliancerequest@extremenetworks.com

Danish Herved erklærer Extreme Networks, at radioudstyrs typen (AP3000X-WW) er i overensstemmelse med direktiv 2014/53/EU.For den fulde ordlyd af EU-overensstemmelseserklæringen bedes du kontakte Extreme Regulatory Compliance på compliancerequest@extremenetworks.com

German Dabei erklärt Extreme Networks, dass der Funkgerätetyp (AP3000X-WW) mit der Richtlinie 2014/53/EU im Einklang steht.Für den vollständigen Wortlaut der EU-Konformitätserklärung wenden Sie sich bitte an extreme Regulatory Compliance unter compliancerequest@extremenetworks.com

Greek Με την παρούσα, ακραία δίκτυα δηλώνουν ότι ο τύπος του ραδιοεξοπλισμού (AP3000X-WW) συμμορφώνεται με την οδηγία 2014/53/EE.Για το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ, παρακαλούμε επικοινωνήστε με την ακραία κανονιστική συμμόρφωση στο compliancerequest@extremenetworks.com

Icelandic Hérlendis, Extreme Networks, lýsa því yfir að útvarpsbúnaðargerðin (AP3000X-WW) sé í samræmi við tilskipun 2014/53/ESB.Fyrir fullan texta í ESB yfirlýsingu um samræmi, vinsamlegast hafðu samband við Extreme Regluflygnir á compliancerequest@extremenetworks.com

Italian Di conseguenza, Extreme Networks dichiara che il tipo di apparecchiature radio (AP3000X-WW) è conforme alla direttiva 2014/53/EU.Per il testo integrale della Dichiarazione di conformità dell'UE, contattare Extreme Regulatory Compliance presso compliancerequest@extremenetworks.com

Spanish Por la presente, Extreme Networks declara que el tipo de equipo radioeléctrico (AP3000X-WW) cumple con la Directiva 2014/53/UE.Para obtener el texto completo de la Declaración de conformidad de la UE, póngase en contacto con Extreme Regulatory Compliance en compliancerequest@extremenetworks.com

Portuguese Por este meio, a Extreme Networks declara que o tipo de equipamento de rádio (AP3000X-WW) está em conformidade com a Diretiva 2014/53/UE.Para obter o texto integral da Declaração de Conformidade da UE, contacte o cumprimento regulamentar extremo em compliancerequest@extremenetworks.com

Malti B' dan, networks estremi, jiddikjara li t-tip ta ' taghmir tar-radju (AP3000X-WW) huwa konformi mad-Direttiva 2014/53/UE.Ghat-test shih tad-dikjarazzjoni ta ' konformità tal-UE, jekk joghgbok ikkuntattja lill-konformità regolatorja compliancerequest@extremenetworks.com

Extreme Wireless™ Indoor Access Point

Quick Reference

AP3000X

Notice

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