

ExtremeWireless 802.11ax AP305C/CX Indoor Access Points

AP305C/CX Overview

The AP305C/CX access points are high-performance 802.11ax dual-5G, dual-band access points designed for high-density indoor environments that require high definition (HD) video streaming and large file transfers. The AP305CX access point has external antennas, that are sold separately.

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

The AP305C/CX access points have the following features:

- Radio technology: two built-in dual-band radios
- Kensington lock
- ETHO Ethernet port:
 - autosensing 10/100/1000G BASE-T/TX Mbps, with IEEE 802.3af or 802.3at compliant Power over Ethernet (PoE), and requires a Cat5 cable
- Antennas:
 - AP305C - four internal omnidirectional 2.4 GHz/5 GHz dual-band antennas
 - AP305C/CX - four external omnidirectional 2.4 GHz/5 GHz dual-band antennas
 - One dual-band antenna is shared between Wi-Fi and Bluetooth Low Energy (BLE)
- Power source - 802.3af and 802.3at power over Ethernet injector
- Trusted Module Platform (TPM) chip for added security
- Temperature:
 - Operating temperature: 0 °C to +40 °C (+32 °F to +104 °F)
 - Non-operating temperature: -40 °C to +80 °C (-40 °F to +176 °F)

Table 1 AP305C/CX Power profile

AP305C/CX	802.3af	802.3at
2.4G radio	2x2 (18 dBm)	2x2 (18 dBm)
5G radio	2x2 (18 dBm)	2x2 (18 dBm)
BLE	Enabled	Enabled
USB	Yes (up to 500mA)	Yes (up to 900mA)

For detailed device and radio specifications, refer to the AP305C/CX Data Sheet.

Figure 1 Front and back views of AP305C/CX



Figure 2 AP305C access point hardware components



Table 2 Side ports on AP305C access point

Callout	Description
1	ETHO port
2	USB port
3	Security slot

Figure 3 AP305C/CX access point hardware components

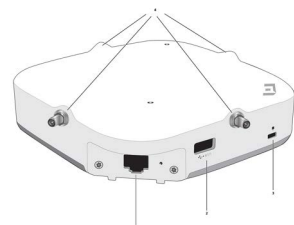


Table 3 Side ports on AP305C/CX access point

Callout	Description
1	ETHO port

Callout	Description
2	USB port
3	Security slot
4	External antenna connectors

Status LED

The AP305C/CX have a rectangular status light on the top right corner 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.

Micro USB Console Port

The console port is located at the bottom of the access point. Through the console port, you can make a serial connection between your management system and the access point.

AP305C/CX Box Contents

Ensure that the following items are available:

Table 4 Contents of the AP305C/CX Box

Quantity	Item
1	Read Me card
1	An access point you have ordered (AP305C or AP305CX)

All optional brackets and accessories are sold separately. For detailed installation instructions about all mounting procedures, refer to the *ExtremeWireless AP305C/CX Access Point Installation Guide* in the Extreme Networks Documentation Support site.

Install the Access Point

Electrical Hazard: Only qualified personnel must perform installation procedures.

Use these instructions as guidelines for mounting and connecting the AP305C/CX access points easily and safely.

Install the Access Point on a Standard Ceiling Rail

The AP305C/CX access point has a built-in bracket in the back of the access point that is used to install the access point to a 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".

Hardware requirement:

- An AP305C/CX access point
- 1 Place the in-built bracket on a 15/16 in. ceiling grid.
 - 2 Rotate the access point to 1/8th of a turn until it clicks into place.

Figure 4 Built-in brackets for standard ceiling grid mounting

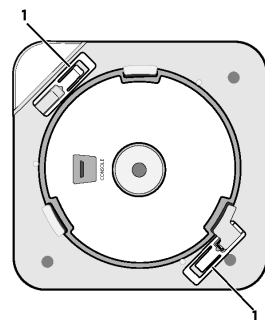


Table 5 Bracket component

Callout	Description
1	Built-in bracket in the back of 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 6 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.

External Antenna Configuration Information

Wi-Fi/BLE antenna	AP305C (maximum antenna gain)	AP305C/CX (maximum antenna gain)
2.4 GHz	2.7 dBi	3.0 dBi
5.0 GHz	4.0 dBi	5.0 dBi

External Antenna Information

The AP305C/CX access point comes with four external antenna connectors and is compatible with the ML-2452-APA2-02 and AH-ACC-ANT-AX-KT antennas.

Note: The ML-2452-APA2-02 and AH-ACC-ANT-AX-KT antennas must be purchased separately.

Figure 5 AP305C/CX external antenna port connectors

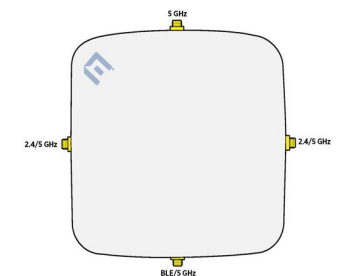


Table 7 AP305C/CX external antenna ports radio information

Radio modes	Antenna ports				
	Radio 0 C0	Radio 0 C1	Radio 1 C0	Radio 1 C1	
Dual-band	2.4G	2.4G	5G (full)	2.4G (BLE)	5G (full)
Dual 5G	5G (low)	5G (low)	5G (high)	2.4G (BLE)	5G (high)

Table 8 AP305C/CX radio ports support information

Radio port	Antenna marking	Radio support	Antenna type
Radio 0 C0	2.4 GHz/5 GHz	2.4G/5G	Dual-band omni
Radio 0 C1	2.4 GHz/5 GHz	2.4G/5G	Dual-band omni
Radio 1 C0	Bluetooth/5 GHz	2.4G/5G	Dual-band omni
Radio 1 C1	5 GHz	5G	Dual-band 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 AP305C/CX 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

Consulter le manuel d'utilisation *ExtremeWireless AP305C/CX 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.

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 must perform installation procedures. Within the context of the safety notes in this documentation, qualified persons are defined as persons who are authorized to commission grounding 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.

Japan Indoor Use Statement

For Japan, the AP305C and AP305CX are restricted for indoor use in the 5150-5350 MHz band only.

Japan Voluntary Control Council for Interference (VCCI) - Class B

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。 VCCI—B

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

CE Marking and European Area (EEA)

Warning: This is a Class A 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:

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

Industry Canada Notice

Warning: For indoor use only.
Pour une utilisation en intérieur uniquement.

This device complies with ISED's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

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 radio transmitter [IC: 4141B-AP305CX] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed in *ExtremeWireless AP305C/CX Access Point Installation Guide*, 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.

Le présent émetteur radio [IC: 4141B-AP305CX] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne répertoriés dans le Guide d'installation des points d'accès sans fil extrêmes AP305C/CX, avec le un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Taiwan Regulatory Statement

第十二條一經型式認證合格之低功率射頻電機，非經許可，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。第十四條一低功射頻電機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，應即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功射頻電機須忍受合法通信或工業、科學及醫療用電波射性電機設備之干擾。

在 5.25-5.35 稀赫帶內操作之無線資訊傳輸設備，限於室內使用。

無線資訊傳輸設備的製造廠商應確保頻率穩定性，如依製造廠商使用手冊上所述正常操作，發射的信號應維持於操作頻帶中。

Taiwan Maximum Permissible Exposure (MPE) Warning

電磁波曝露量 MPE 標準內 (MPE) 1mW/cm²，送測內品實內為 0.734 mW/cm²。

Avoid impacting the operation of nearby radar systems. 應避免影響附近雷達系統之操作。

High-gain directional antennas can only be used in stationary point-to-point systems. 高增益指向性天線只得應用於固定式點對點系統。

Supplement to Product Instructions

單元 Unit	限用物質及其化學符號 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)	○	○	○	○	○	○
電路模組 (Circuit Modules)	—	○	○	○	○	○
電纜及電纜組件 (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.						

NCC Warning 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。

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):

- The symbol above indicates that separate collection of electrical and electronic equipment is required.
- 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.

- 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.
- 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.

Declaration of Conformity in Languages of the European Community

English Hereby, Extreme Networks declares that the radio equipment type (AP305C/CX) 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 (AP305C/CX) on direktiivin 2014/53/EU mukainen.EU vaatimustenmukaisuusvakuutuksen täydellisistä tekstistä ota yhteyttä äärimmäisiin viranomais säädöksiin osoitteessa compliancerequest@extremenetworks.com

Dutch Extreme Networks verklaart hierbij dat het type radioapparatuur (AP305C/CX) 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 (AP305C/CX) 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 radioustrustning typ (AP305C/CX) överensstämmer med direktiv 2014/53/EU.För fullständig text av EU-försäkran om överensstämmelse, vänligen kontakta Extreme regelförfarand på compliancerequest@extremenetworks.com

Danish Herved erklærer Extreme Networks, at radioudstyrs typen (AP305C/CX) 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 (AP305C/CX) 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 (AP305C/CX) 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 Hérendis, Extreme Networks, lýsa því yfir að útvarpsbúnaðargerðin (AP305C/CX) sé í samræmi við tilskipun 2014/53/ESB.Fyrir fullan texta í ESB yfirlýsingu um samræmi, vinsamlegast hafðu samband við Extreme Reglufylgni á compliancerequest@extremenetworks.com

Italian Di conseguenza, Extreme Networks dichiara che il tipo di apparecchiature radio (AP305C/CX) 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 (AP305C/CX) 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 (AP305C/CX) 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-radiju (AP305C/CX) huwa konformi mad-Direttiva 2014/53/UE.Ghat-test shih tad-dikjarazzjoni ta ' konformità tal-UE, jekk jogħġbok ikkuntattja lill-konformità regolatorja compliancerequest@extremenetworks.com

Extreme Wireless™ Indoor Access Points

Quick Reference

AP305C/CX

Notice

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