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 802.1lax 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 nonstandard 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 (EthO 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 ETHO 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

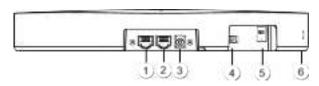
- IFFF 802.3bt PoF Power
- Ultra-wideband (UWB) support on AP5010U

Power Options

- Typical: 21.0 W; Max: 25.5 W
- 802.3bt PoF capable
- Gigabit Ethernet port

For detailed device and radio specifications, refer to the AP5010 Data Sheet.

AP5010 and AP5010U access points hardware components



Callout	Description
1	EthO/PoE+
2	ETH1
3	12V DC

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

Status LED Activity Description

Table 1 AP5010 access point hardware ports

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

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

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" .

- Remove the ceiling tiles.
- 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

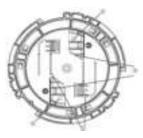


Table 3 AH-ACC-BKT-AX-TB bracket parts description

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

Figure 3 AP5010 or AP5010U access point ceiling install



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

Table 4 Non-standard ceiling grid and wall accessories information

racket part number	Description
	Mounting bracket for Prelude ceilings (15/16 in. ceiling grid), Suprafine ceilings (9/16 in. ceiling grid), and walls
	Party.

AH-ACC-BKT-AX-TB



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



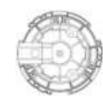
Junction box or wall mounting for indoor access

ACC-BKT-AX-JB



Beam mounting for indoor access points

ACC-BKT-AX-BEAM



Mounting bracket for direct-to-wall installations

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.

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 BI F 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 nstall or change the setting

Installation procedure

Refer to the Extreme Wireless 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 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 AP5010 Access Point Installation Guide. Warning: Avertissement: Choisir avec soin la position d'installation et

violation de cette regle peut conduire a de serieuses penalites federales.

s'assurer que la puissance de sortie ne depasse pas les limites en vigueur. La



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

Federal Communication Commission Interference Statement

FCC regulations restrict the operation of this device to indoor use only

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 harmfu 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
- Consult the dealer or an experienced radio or 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 is restricted for indoor use. This equipment may only be operated indoors. Operation outdoors is in violation of 47 U.S.C. 301 and could subject the operator to serious legal penalties. 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. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or Communications with unmanned viscosifications.



Warning: FCC Radiation Exposure Statement: This equipment complies with FCC iation exposure limits set forth for an uncontrolled environment. This equipment sl installed and operated with minimum distance of 43 cm for AP5010 and 44 cm for AP5010U between the radiator and your body.

Japan Indoor Use Statement

For Japan, AP5010 access point is restricted for indoor use in the 5150-5350 MHz band only

Japan Voluntary Control Council for Interference (VCCI) -

この装置は、クラス日情報技術装置です。この装置は、実底環境で使用 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、受信算書も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。

European Union (EU) Radiation Warning Statement



Warning: This equipment complies with EU 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.

Selling Countries:



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

Other Countries

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 inter-

ferência em sistemas devidamente autorizados. Para majores informações, consulte o site da ANATEL

Brazil 6E Statement

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

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
- 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

AP5010 CE **AP5010 UK**

2402-2480MHz (LE): 7.99 dBm 2405-2480MHz: 8.03 dBm 2412-2472MHz: 19.99 dBm 5180-5240MHz: 22.99 dBm 2402-2480MHz (LE): 7.99 dBm 2405-2480MHz: 8.03 dBm 2412-2472MHz: 19.99 dBm 5180-5240MHz: 22.99 dBm 5260-5320MHz: 22.99 dBm 5500-5700MHz: 29.97 dBm 5260-5320MHz: 22.99 dBm 5955-6415MHz: 22.99 dBm 5955-6415MHz: 22.99 dBm

AP5010U CE AP5010U UK 2402-2480MHz (LE): 7.99 dBm 2405-2480MHz: 8.03 dBm 2402-2480MHz (LF): 7.99 dBm 2405-2480MHz: 8.03 dBm 2412-2472MHz: 19.99 dBm 5180-5240MHz: 22.99 dBm 2412-2472MHz: 19.99 dBm 5180-5240MHz: 22.99 dBm 5260-5320MHz: 22.99 dBm 5500-5700MHz: 29.99 dBm 5955-6415MHz: 22.99 dBm 6489.6-7987.2MHz: -6.39 dBm/RBW (for 5500-5700MHz: 29.99 dBm 5745-5825 MHz: 22.98 dBm 5955-6415MHz: 22.99 dBm 6489.6-7987.2MHz: -6.39 dBm/RBW (for AP5010U AP5010U only)



Warning: The device is restricted to indoor use only when operating in the 5150 to 5350

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

UK - The device is restricted to indoor use only when operating in the 5925 to 6425 MHz frequency

Hereby, Extreme Networks declares that the radio equipment AP5010, AP5010U is in compliance with Radio Equipment Regulations 2017. For more details, contact Extreme Compliance Request at ComplianceRequest@extremenetworks.com.

Extreme Networks UK Address

Extreme Networks, UK Ltd. 250 Longwater Avenue Green Park Reading, UK

Extreme Networks EU Importer Address

Extreme Networks, Ireland Ops Ltd. Rineanna House Shannon Industrial Estate Shannon, V14CA36 Ireland

Industry Canada Notice



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

Operation on oil platforms, cars, trains, boats, and aircraft are prohibited except for on large aircraft flying above 10,000 ft. L'exploitation sur les plates-formes pétrolières, les voitures, les trains, les bateaux et les aéronefs est

interdite, sauf sur les gros aéronefs volant au-dessus de 10,000 pieds. 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 proyoquer un fonctionnement indésirable



Warning: IC Radiation Exposure Statement: 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 40 cm between the radiator and your



Warning: 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 40 cm entre le radiateur et votre corps.



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



Caution: Avertissement: les dispositifs fonctionnant dans la bande 5150-5250 MHz sont ervés 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 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 colocated or operating in conjunction with any other antenna or transmitter

Taiwan Regulatory Statement

第十二株一般型式設定自然之後的単射模型機、肝能作用、分別、無視症性障害可干得限の緊急機 第、放文功學成習歷度請於去特殊支持能、第十四冊一項的制度電視之後用得影響規模安全是于每 合物運信/相模信息中延信業施、整幹時度、並由主播中指揮方用機關提供、前項企工通信、指 信息促注/提定內集之學經濟處施、能均特別機能逐渐更完全過差結工業、科學系製所產深的性學機能 在 1255 三 新研究學內部水之物的資訊的學報發展。 第17世內保持。 有权式以降设施的包括指挥性等部位定性,如他型击指有技术等上共进工术指示,意识的意味。

Taiwan Maximum Permissible Exposure (MPE) Warning

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Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and

European Waste Electrical and Electronic Equipment (WEEE) Notice

In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic

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

Supplement to Product Instructions

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Declaration of Conformity in Languages of the European Community

Enalish Hereby, Extreme Networks declares that the radio equipment type (AP5010, AP5010U) is in compliance with Directive 2014/53/EU. For full text of the EU Declaration of Conformity, please contact Extreme Regulatory Compliance at

> Täten Extreme Networks vakuuttaa, että Radio laite tyyppi (AP5010, AP5010U) on direktiivin 2014/53/EU mukainen.EU vaatimustenmukaisuusvakuutuksen täydellisestä tekstistä ota yhteyttä äärimmäisiin viranomais säädöksiin osoitteessa compliancerequest@extremenetworks.com

Extreme Networks verklaart hierbij dat het type radioapparatuur (AP5010, AP5010U) in overeenstemming is met richtlijn 2014/53/EU.Voor de volledige tekst van de EUconformiteitsverklaring u contact opnemen met extreme regelgeving op

Par la présente, Extreme Networks déclare que le type d'équipement radio (AP5010, AP5010U) 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

Härmed intygar Extreme Networks att radioutrustning typ (AP5010, AP5010U) överensstämmer med direktiv 2014/53/EU.För fullständig text av EU-försäkran om överensstämmelse, vänligen kontakta Extreme regelefterlevnad på compliancerequest@extremenetworks.com

Herved erklærer Extreme Networks, at radioudstyrs typen (AP5010, AP5010LI) er i Danish overensstemmelse med direktiv 2014/53/EU.For den fulde ordlyd af EUoverensstemmelseserklæringen bedes du kontakte Extreme Regulatory Compliance

på compliancerequest@extremenetworks.com

compliancerequest@extremenetworks.com

Italian

Dabei erklärt Extreme Networks, dass der Funkgerätetyp (AP5010, AP5010U) 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

Με την παρούσα, ακραία δίκτυα δηλώνουν ότι ο τύπος του ραδιοεξοπλισμού Greek (ΑΡ5010, ΑΡ5010U) συμμορφώνεται με την οδηγία 2014/53/ΕΕ.Γιά το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ, παρακαλούμε επικοινωνήστε με την ακραία κανονιστική συμμόρφωση στο compliancerequest@e

Hérlendis, Extreme Networks, lýsa því yfir að útvarpsbúnaðargerðin (AP5010 AP5010U) 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

> Di conseguenza, Extreme Networks dichiara che il tipo di apparecchiature radio (AP5010, AP5010U) 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

Por la presente, Extreme Networks declara que el tipo de equipo radioeléctrico (AP5010, AP5010U) 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

Por este meio, a Extreme Networks declara que o tipo de equipamento de rádio (AP5010, AP5010U) 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 compliancereguest@extrer

B ' dan, netwerks estremi, jiddikjara li t-tip ta ' tagħmir tar-radju (AP5010, AP5010U) huwa konformi mad-Direttiva 2014/53/UE.Ghat-test sħiħ tad-dikjarazzjoni ta ' konformità tal-UE, jekk jogħġbok ikkuntattja lill-konformità regolatorja compliancerequest@extremenetworks.com

ExtremeWireless™ **Indoor Access Points**

Quick Reference

AP5010 AP5010U

Scan to Download the XIQ Mobile Application

Commission, monitor, and troubleshoot devices at ease with XIQ 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 XIQ Companion mobile application enables you to access the device CLI for troubleshooting and view device and client status.





XIQ iOS Mobile App

XIQ Android Mobile App

Scan for Product Support Details







XIQ Onboarding

Documentation

Product Videos

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Documentation, Installation Videos, and Support

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



P/N 9037185-02 Rev AA