

Extreme Wireless 802.11be Wi-Fi 7 Indoor AP4020X Solution

Overview of AP4020X

The AP4020X is an ExtremeCloud IQ managed, Wi-Fi 7 (802.11be) universal indoor access point (AP). It has a quad-radio design with three 2x2:2 radios for use across the 2.4 GHz, 5 GHz, and 6 GHz bands. It also features a dedicated sensor and dual IoT radios.

Technical Specifications



The AP4020X has the following features and specifications. For more information, see the [Data Sheet](#).

Radios

The AP4020X has a quad-radio design with three 2x2:2 radios (2.4 GHz, 5 GHz, and 6 GHz bands), a dedicated sensor and dual IoT radios. Operational Modes:

- Mode 1:** 2.4 GHz /5 GHz/6 GHz data radios and sensor.
- Mode 2:** 2.4 GHz, and dual 5 GHz, and sensor.

Ports

- ETH0: 100/1000/2500/5000Mbps autosensing link speed Ethernet port, PoE PD; wired (RJ45)
- ETH1: 100/1000/2500Mbps autosensing link speed Ethernet port, PoE PD; wired (RJ45)
- 802.3az Energy-Efficient Ethernet (EEE)
- USB 2.0: Type A, 5V/500mA with PoE 802.3at or 5V/1,000mA with PoE 802.3bt.

Security

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

Power Options

- The following power options are supported:
- Power Draw: 802.3at PoE - Typical 21W with USB 2.5W; Max: 25.5W with USB 2.5W
 - Power Draw: 802.3bt - Max: 28W with USB 5W
 - 12VDC/3A. DC power has priority when both DC and PoE power sources are available
 - PoE Failover

Physical Dimensions

- Dimensions: 288 mm x 245 mm x 43 mm (11.34 in. x 9.65 in. x 1.69 in.)
- Weight: 1.43 kg (3.2 lbs)

Antennas

- The AP4020X supports the following antennas.
- Integral:
- Two (2) single band 6 GHz antennas permanently attached or integrated into the AP
- External Ports:
- Two (2) dual band 2.4 GHz and 5 GHz
 - One (1) dual band 2.4 GHz (IoT Radio 1) and 5 GHz
 - One (1) single band 5 GHz
- Internal:
- IoT Radio 1: Selectable between internal and external
 - IoT Radio 2: Two (2) selectable internal antennas

- One (1) 2.4 GHz / 5 GHz / 6 GHz sensor

Temperature

- Operating: -20°C to 55°C (-4°F to 131°F)
- Storage/Transportation: 0°C to 70°C (32°F to 158°F)
- Humidity: 0% to 95% (non-condensing)

Enclosure

- Plastic Top, Aluminum Bottom

Regulatory and Compliance Information Safety Guidelines

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

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 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, it 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 the one the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

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. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules. For 5925-7125 MHz transmitter operation in Low Power Indoor mode:

- FCC regulations restrict the operation of this device to indoor use only.
- 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 in the 5.925-6.425 GHz band.
- Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

For 5925-6425 MHz and 6525-6875 MHz transmitter operation in Standard power access point mode:

- The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft.
- Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

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

Warning: 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 62 cm between the radiator and your body.

United Kingdom (UK) and European Union (EU) Radiation Warning Statement

Warning: EU/UK 20 cm radiation distance This equipment complies with EU/UK radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a 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	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK(NI)

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range. The device is restricted to indoor use only when operating in the 5945 to 6425MHz frequency range. The frequency and the maximum transmitted power in EU and UK are listed below:

AP4020XEU	AP4020XUK
2412-2472MHz: 19.99dBm	2412-2472MHz : 19.99dBm
2402-2480MHz (BT): 9.97dBm	2402-2480MHz (BT): 9.97dBm
5180-5240MHz : 22.99dBm	5180-5240MHz : 22.99dBm
5260-5320MHz : 22.99dBm	5260-5320MHz : 22.99dBm
5500-5700MHz : 28.06dBm	5500-5700MHz : 28.06dBm
5745-5825MHz : 13.97dBm	5745-5825MHz : 22.99dBm
5955-6415MHz : 22.98dBm	5925-6425MHz : 23.98dBm

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

Warning: 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.

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 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. 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 30cm between the radiator & your body. 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 30cm de distance entre la source de rayonnement et votre corps

Indoor AP(6ID)
Operation shall be limited to indoor use only.
Le fonctionnement doit être limitée à une utilisation à

- l'intérieur seulement.
- Devices shall not be used for control of or communications with unmanned aircraft systems.
 - Devices shall not be used on oil platforms.
 - Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).
 - Devices shall not be used on automobiles.
 - Devices shall not be used on trains.
 - Devices shall not be used on maritime vessels
 - Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.
 - Les dispositifs ne doivent pas être utilisés sur les plateformes de forage pétrolier.
 - Les dispositifs ne doivent pas être utilisés dans les aéronefs, à l'exception des points d'accès intérieurs de faible puissance, des dispositifs subordonnés intérieurs, des dispositifs clients de faible puissance et des dispositifs de très faible puissance fonctionnant dans la bande de 5 925 à 6 425 MHz, qui peuvent être utilisés dans les gros aéronefs tel qu'il est défini dans le Règlement de l'aviation canadien, et ce, lorsqu'ils volent à une altitude supérieure à 3 048 mètres (10 000 pieds).
 - Les dispositifs ne doivent pas être utilisés dans les automobiles.
 - Les dispositifs ne doivent pas être utilisés dans les trains.
 - Les dispositifs ne doivent pas être utilisés sur les navires maritimes.

Country of Manufacture

China
Manufacturer: Sercomm Corporation
Address: No.8, Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China

Philippines
Manufacturer: Sercomm Philippines, Inc.
Address: Lot 4, Innovation Drive, CIP 1, Canlubang, 4027, City of Calamba Laguna, Philippines

Taiwan
Manufacturer: Sercomm Chunan
Address: No.81, YuYi Road, Chu-Nan Miao-Li 350, Taiwan

Thailand

- ข้อความชี้แจงเกี่ยวกับกฎระเบียบ:
เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.
- คำชี้แจงเกี่ยวกับการได้รับ RF:
เครื่องวิทยุคมนาคมนี้มีระดับการแผ่คลื่นแม่เหล็กไฟฟ้าสอดคล้องตามมาตรฐานความปลอดภัยต่อสุขภาพของมนุษย์จากการใช้เครื่องวิทยุคมนาคมที่คณะกรรมการกิจการโทรคมนาคมแห่งชาติประกาศกำหนด

Japan

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取扱説明書に従って正しい取り扱いをして下さい。 VCCI－B

Taiwan

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BSMI Statement - Taiwan

警告: 為避免電磁干擾，本產品不應安裝或使用於住宅環境。
Taiwan BSMI報關義務人
申請人: 愛爾蘭商極進網絡技術行動有限公司台灣分公司
地址: 臺北市松山區南京東路四段126號5樓
電話: 02-2715-7336

產品說明的補充

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.						

China Compliance Statement

核准编号CMIIT ID在产品铭牌位置标识

Brazil

1. 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.
2. 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

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.

Declaration of Conformity
in Language of the European Community

English	Hereby, Extreme Networks, declares that the radio equipment type (AP4020X) 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 (AP4020X) 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 (AP4020X) 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 (AP4020X) 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 radi-outrustning typ (AP4020X) överensstämmer med direktiv 2014/53/EU.För fullständig text av EU-försäkran om överensstämmelse, vänligen kontakta Extreme regelefterlevnad på compliancerequest@extremenetworks.com
Danish	Herved erklærer Extreme Networks, at radioudstyrs typen (AP4020X) 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 (AP4020X) 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 (AP4020X) συμμορφώνεται με την οδηγία 2014/53/ΕΕ.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 (AP4020X) 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 (AP4020X) 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 (AP4020X) 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 (AP4020X) 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, netwerks estremi, jiddikjara li t-tip ta ' tagħmir tar-radju (AP4020X) huwa konformi mad-Direttiva 2014/53/UE.Chat-test shiħ tad-dik-jarazzjoni ta ' konformità tal-UE, jekk jogħġbok ikkuntattja lill-konformità regolatorja compliancerequest@extremenetworks.com
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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.
It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated. Information on the product take back program, treatment and recycling facilities, detailed information regarding the components, materials, and location of hazardous substances is available upon request by contacting Green@extremenetworks.com.

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.

Energy-related Products (ErP) Notice
This equipment has been tested and is found to comply with the limits of Ecodesign Directive 2009/125/EC. Under the directive, this device may be considered a “networked equipment with high network availability” (HiNA equipment). The communication protocol used is IEEE 802.11 b/g/n/a/ac/ax/be. Wi-Fi functions can be controlled by ExtremeCloud IQ.

Legal

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.

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Extreme Wireless
Access Point

AP4020X
REGULATORY AND COMPLIANCE

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 Android
Mobile Application



ExtremeCloud IQ
Companion iOS Mobile
Application

Scan for Product Support Details



ExtremeCloud IQ
Companion Mobile
Application Onboarding



Documentation



Product Videos