Extreme Wireless 802.11be
Wi-Fi 7 Indoor AP3020X Solution

Overview of AP3020X
The AP3020X is an ExtremeCloud IQ-managed, Wi-Fi 7 (802.11be) universal indoor access point (AP). It has a dual-radio design with two 2x2 radios for use across the 2.4 GHz, 5 GHz, and 6 GHz bands. It also features a dedicated sensor, IoT radios, and external antennas.



Technical Specifications

Note: 6 GHz is country-dependent.

The AP3020X has the following features and specifications.

Radios
- Radio 1: 2x2:2 2.4 GHz, 6 GHz-Full or 5GHz-Low
  Radio 2: 2x2:2 5 GHz-Full or 5 GHz-High
- Two IoT radios -Thread and Zigbee ready, Bluetooth 5.4 Low Energy, IEEE 802.15.4

Ports
- One Ethernet port with RJ45 connector:
  - ETH0: 100Mbps/1GE/2.5GE (PoE in)
  - 802.3az Energy-Efficient Ethernet (EEE)
- One USB 2.0, Type A, 5V/1A (with 802.3at power)
- One Console port
- Two RP-SMA antenna ports for external antennas
- Two fixed, integral antennas

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

Power Consumption
- Power draw: 802.3af PoE: typical 11W, maximum. 13W (802.3af profile) without USB
- Power draw: 802.3at PoE: typical 17W, maximum. 19W (802.3at profile) with 5W USB load

Physical Dimensions
- Dimensions: 236×243×43mm (9.29 in.×9.57 in.×1.69 in.)
- Weight: 0.65kg (1.44 lb)

Temperature
- Operating: -20°C to +50°C (-4°F to 122°F)
- Storage: -40°C to +70°C (-40°F to 158°F)
- Humidity: 0% to 95% (non-condensing)

Enclosure: Plastic top, aluminum bottom

Note: South Korea, Mexico, Taiwan, and Brazil require the use of Cat6 shielded cable.

Regulatory and Compliance Information Safety Guidelines

This section contains notices that are intended to protect your personal safety and prevent damage to the equipment.
This product is designed for a specific application and needs to be installed by a qualified personnel who have RF and related rule knowledge. The general user shall not attempt to install or change the settings. Refer to the installation instructions for details.

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 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.

Note: 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 when the equipment is operated in a commercial environment. This equipment uses, generates, and can radiate radio frequency energy and if not installed in accordance with the operator's manual, 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 antenna of the receiving devices.
- Increase the separation between this equipment and receiving equipment.
- Connect this equipment into an outlet on a circuit different from that to which the receiving equipment is connected.
- Consult the dealer or an experienced radio or TV technician for help.

1. 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.
2. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.
3. 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 f lying 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.

This device is restricted for indoor use.

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 31 cm between the radiator and your body.

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

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:

AP3020X EU	AP3020X UK
2408–2480 MHz (BT): 9.96 dBm	2408–2480 MHz (BT): 9.96 dBm
2405–2480 MHz(802.15.4): 7.64 dBm	2405–2480 MHz(802.15.4): 7.64 dBm
2412–2472 MHz: 19.99 dBm	2412–2472 MHz: 19.99 dBm
5180–5240 MHz: 22.97 dBm	5180–5240 MHz: 22.97 dBm
5260–5320 MHz: 29.98 dBm	5260–5320 MHz: 29.98 dBm
5500–5700 MHz: 29.96 dBm	5500–5700 MHz: 29.97 dBm
5745–5825 MHz: 13.97 dBm	5745–5825 MHz: 22.99 dBm
5955–6415 MHz: 22.99 dBm	5955–6415 MHz: 22.99 dBm

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.
RLAN devices operating in 5925–7125MHz are subject to the following -
- Devices shall not be used for control of or communications with unmanned aircraft systems.
- Devices shall not be used on automobiles, trains, maritime vessels, and 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 meters (10,000 feet).

Low Power Indoor devices operating in 5925–7125MHz subject to following-
- Operating shall be limited to indoor use only

Standard Power devices operating in 5925–7125MHz are subject to the following-
- The device must be installed only with authorized antennae and models listed by manufacturer in product documentation. Device and antenna that requires mounting brackets must be installed with manufacturer-specified brackets listed in product documentation to comply with elevation mask requirements.
- The antenna height shall be determined by the installer or operator of the standard power device or fixed client device or by automatic means.

Cet appareil est conforme aux normes RSS exemptes de licence d'ISED. Son fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences nuisibles, et (2) Cet appareil doit accepter toutes les interférences reçues, y compris celles pouvant provoquer un fonctionnement indésirable.
Le fonctionnement des points d'accès intérieurs à faible puissance est soumis aux conditions suivantes. Les appareils RLAN fonctionnant dans la bande 5925–7125 MHz sont soumis aux conditions suivantes :
- les appareils ne doivent pas être utilisés pour le contrôle ou la communication avec des systèmes d'aéronefs sans pilote.
- Les appareils ne doivent pas être utilisés sur des automobiles, trains, navires ou plateformes pétrolières.
- Les appareils ne doivent pas être utilisés sur des aéronefs, sauf pour les points d'accès intérieurs à faible puissance, les appareils intérieurs subordonnés, les appareils clients à faible puissance et les appareils très basse puissance fonctionnant dans la bande 5925–6425 MHz, qui peuvent être utilisés sur de grands aéronefs tels que définis dans le Règlement de l'aviation canadien, lorsqu'ils volent au-dessus de 3 048 mètres (10 000 pieds).

Les dispositifs à faible puissance pour usage intérieur fonctionnant dans la plage 5925–7125 MHz sont soumis aux conditions suivantes :
- l'utilisation doit être limitée à l'intérieur seulement.

Les dispositifs à puissance standard fonctionnant dans la plage 5925–7125 MHz sont soumis aux conditions suivantes
- le dispositif doit être installé uniquement avec les antennes et modèles autorisés listés par le fabricant dans la documentation du produit. Le dispositif et l'antenne nécessitant des supports de montage doivent être installés avec les supports spécifiés par le fabricant et listés dans la documentation du produit pour répondre aux exigences du masque d'élévation.
- La hauteur de l'antenne doit être déterminée par l'installateur ou l'opérateur du dispositif à puissance standard ou du dispositif client fixe, ou par des moyens automatiques.

Antenna Information
This device uses both integrated internal and detachable external antenna. Antenna types, models, and gain information can be found in product documentation. Installer and operator must only use manufacturer-approved antennas listed in the product documentation to comply with elevation mask requirements.
Cet appareil utilise à la fois une antenne interne intégrée et une antenne externe amovible. Les types d'antenne, modèles et informations sur le gain se trouvent dans la documentation du produit. L'installateur et l'utilisateur doivent seulement utiliser les antennes approuvées par le fabricant listées dans la documentation du produit pour respecter les exigences du masque d'élévation.

Tested Antennas
- ML-2452-APA2-02 (WNC): Dipole Omni, reverse SMA, 2.4 GHz: 2.71dBi and 5 GHz: 4.46dBi
- AIO-DD75060-RPSMA (Extreme Networks): Panel, sector 60°, reverse SMA, 2.4 GHz: 7.17dBi and 5 GHz: 7dBi
- AIO-DD05120-RPSMA (Extreme Networks): Dual-Polarized Panel, sector 120°, reverse SMA, 2.4 GHz: 5.17dBi and 5 GHz: 4.5dBi
- AIO-DD15020-RPSMA (Extreme Networks): MIMO directional panel, reverse SMA, 2.4 GHz: 11.67dBi and 5 GHz: 14.5dBi

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 40 cm 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 40 cm de distance entre la source de rayonnement et votre corps.

Country of Manufacture

Vietnam
Manufacturer: WNC VIETNAM CO., LTD.
Address: Land Lot CN01, Dong Van III Industrial Zone, Dong Van Ward, Ninh Binh Province, Vietnam

Taiwan
Manufacturer: WNC Corporation (S1 manufacturing site)
Address: 5 Lihsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan

Thailand



1. Regulatory Statement:
เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.
2. RF Exposure Statement:
เครื่องวิทยุคมนาคมนี้มีระดับการแผ่คลื่นแม่เหล็กไฟฟ้าสอดคล้องตามมาตรฐานความปลอดภัยต่อสุขภาพของมนุษย์จากการใช้เครื่องวิทยุคมนาคมที่คณะกรรมการกิจการโทรคมนาคมแห่งชาติประกาศกำหนด

Brazil

1. 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.
1. Se restringe el funcionamiento de este equipo solo para uso en interiores,
2. A este equipo no deben conectarse antenas externas,
3. Este equipo no debe ser resistente a condiciones climáticas adversas, no debe utilizar baterías y la fuente de alimentación debe estar conectada directamente a la toma de corriente eléctrica.

Japan

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

Taiwan

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)	〇	〇	〇	〇	〇	〇
電路模組 (Circuit Modules)	－	〇	〇	〇	〇	〇
電纜及電纜組件 (Cables & Cable Assemblies)	〇	〇	〇	〇	〇	〇
塑料和聚合物零件 (Plastic and Polymeric parts)	〇	〇	〇	〇	〇	〇

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.“〇”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 : "〇" 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.

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。
應避免影響附近雷達系統之操作。
This product shall be powered by a power supply that complies with the applicable standard requirements (domestic certification). At least one recommended brand and model of the power supply shall be specified.
此產品建議使用符合標準規定(國內驗證)之該電源供應器（Phihong ,POE60U-BTA,）供電，且該電源供應器的電氣規格資料(輸出規格: 56V / 1.07A)

China Compliance Statement

核准编号CMIIT ID在产品铭牌位置标识
6 GHz is only available in specific countries. It is not available in China.
6 GHz 仅在特定国家可用。在中国不可用。
（一）符合“微功率短距离无线电发射设备目录和技术要求”的具体条款和使用场景，采用的天线类型和性能，控制、调整及开关等使用方法；
（二）不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率（包括额外加装射频功率放大器），不得擅自更改发射天线；
（三）不得对其他合法的无线电台（站）产生有害干扰，也不得提出免受有害干扰保护；
（四）应当承受辐射射频能量的工业、科学及医疗（ISM）应用设备的干扰或其他合法的无线电台（站）干扰；
（五）如对其他合法的无线电台（站）产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；
（六）在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站（含测控、测距、接收、导航站）等军民用无线电台（站）、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定；
（七）禁止在以机场跑道中心点为圆心、半径5000 米的区域内使用各类模型遥控器；
（八）微功率设备使用时温度和电压的环境条件。
使用微功率短距离无线电发射设备应当符合国家无线电管理有关规定

Declaration of Conformity in Language of the European Community

English	Hereby, Extreme Networks, declares that the radio equipment type (AP3020X) is in compliance with Directive 2014/53/EU and Radio Equipment Regulations 2017. 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 (AP3020X) on direktiivin 2014/53/EU mukainen ja Radio Equipment Regulations 2017 mukainen. EU vaatimustenmukaisuusvakuutuksen täydellisestä tekstistä ota yhteyttä äärimmäisiin viranomais säädöksiin osoitteessa compliancerequest@extremenetworks.com
Dutch	Extreme Networks verklaart hierbij dat het type radioapparatuur (AP3020X) in overeenstemming is met richtlijn 2014/53/EU en de Radioapparatuur-voorschriften 2017. 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 (AP3020X) est conforme à la directive 2014/53/UE et aux Règlements sur les équipements radio de 2017. 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 (AP3020X) överensstämmer med direktiv 2014/53/EU och Radio Equipment Regulations 2017.. För fullständig text av EU-försäkran om överensstämmelse, vänligen kontakta Extreme regelefterlevnad på compliancerequest@extremenetworks.com
Danish	Herved erklærer Extreme Networks, at radioudstyrs typen (AP3020X) er i overensstemmelse med direktiv 2014/53/EU og Radio Equipment Regulations 2017. 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 (AP3020X) mit der Richtlinie 2014/53/EU und den Funkgerätevorschriften 2017 entspricht. 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 (AP3020X) συμμορφώνεται με την οδηγία 2014/53/ΕΕ και τους Κανονισμούς Ραδιοεξοπλισμού 2017. 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 (AP3020X) sé í samræmi við tilskipun 2014/53/ESB og reglugerð um útvarpstæki frá 2017. 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 (AP3020X) è conforme alla direttiva 2014/53/EU e al Regolamento sulle apparecchiature radio del 2017. 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 (AP3020X) cumple con la Directiva 2014/53/UE y con las Regulaciones de Equipos de Radio de 2017. 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 (AP3020X) está em conformidade com a Diretiva 2014/53/UE e os Regulamentos de Equipamentos de Rádio de 2017. Para obter o texto integral da Declaração de Conformidade da UE, contacte o cumprimento regulamentar extremo em compliancerequest@extremenetworks.com
Maltese	B ' dan, netwerks estremi, jiddikjara li t-tip ta ' tagħmir tar-radju (AP3020X) huwa konformi mad-Direttiva 2014/53/UE.Għat-test sħiħ tad-dikjarazzjoni ta ' konformità tal-UE, jekk jogħġbok ikkuntattja lill-konformità regolatorja compliancerequest@extremenetworks.com

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, the treatment and recycling facilities, and detailed information regarding the components, materials, and location of hazardous substances is available upon request free of charge by contacting Green@extremenetworks.com.

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 networks

AP3020X

REGULATORY AND COMPLIANCE GUIDE

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

P/N 9041106-00 Rev AA