

Extreme Wireless 802.11be Wi-Fi 7 Weatherized AP5060D and AP5060U Solution

Overview of AP5060D and AP5060U

The AP5060D and AP5060U is a cloud-ready, stadium-optimized Wi-Fi 7 weatherized access point. They are 802.11be rated with an internal antennas. They support high density of users and devices.

Technical Specifications



The AP5060D and AP5060U have the following features and specifications. For more information, see [the Data Sheet](#).

Radios

The AP5060D and AP5060U have a quad-radio design with three 4x4:4 radios (2.4 GHz, 5 GHz, and 6 GHz bands), a dedicated 2x2 sensor and dual IoT radios. They also have two IoT radios with Bluetooth, Zigbee, and Thread capabilities.

Operational Modes:

- Mode 1:** 2.4 GHz /5 GHz/6 GHz data radios and 2x2 sensor.
- Mode 2:** Dual 5GHz, 6GHz data radios and 2X2 sensor.
- Mode 3:** 5GHz, Dual 6GHz data radios and 2X2 sensor.

*6 GHz is country dependent.

Ports

- ETH0, ETH1: (2) wired Ethernet ports (RJ45).
- ETH0: 100/1000/2500/5000/10000 Mbps autosensing link speed Ethernet port, PoE PD.
- ETH1: 100/1000/2500/5000/10000 Mbps autosensing link speed Ethernet port, PoE, PD in or 15.4W PSE out mode (requires 802.3bt on Eth0)
- 802.3az Energy-Efficient Ethernet (EEE)

Security

- Trusted Platform Module (TPM)

Power Options

The following power options are supported:

- Power Draw: 802.3at PoE - Typical 21W; Max: 25.5W
- Power Draw: 802.3bt PoE - Max: 28W
- PoE Failover

Physical Dimensions

AP5060D

- Dimensions: 288 mm x 483 mm x 87 mm (11.3in. x 19.0in. x 3.4in.)
- Weight: 4.3 kg (9.59 lbs)

AP5060U

- Dimensions: 288 mm x 254 mm x 75 mm (11.34 in. x 10.0in. x 2.95in.)
- Weight: 3.05 kg (6.72 lbs)

Internal Antennas

AP5060U:

- Four 2.4 GHz and 5 GHz; Four 6 GHz; Four 5 GHz and 6 GHz; Dual IoTs radios; One GPS

AP5060D:

- Four 2.4 GHz. Wide Beam four 5 GHz, four 6 GHz, four 5/6 GHz.
- Narrow Beam four 5 GHz, four 6 GHz, four 5/6 GHz.
- Dual IoT radios; One GPS

Environmental Specifications

- Operating: -40°C to 60°C (-40°F to 140°F) w/ solar load
- Operating: -40°C to 70°C (-40°F to 158°F) w/o solar load
- Storage/Transportation: -40°C to 70°C (-40°F to 158°F)
- Humidity: 0% to 95% (non-condensing)
- Wind rating: 266 km/h (165 Mph) sustained wind

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 operation in Standard power access point mode and standard client:

1. 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.

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:

- **AP5060U** - SAR (underseat installation) 25mm; MPE (pole mount) 40 cm
- **AP5060D** - MPE (pole mount) 40 cm

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

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)

Warning AP5060D: This equipment complies with EU/UK 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.

Warning AP5060U: This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

EU: The highest SAR value 2.610 W/Kg.

UK: The highest SAR value 2.610 W/Kg. This device was tested with a separation distance of 25 mm.

MPE (Pole Mount): 20cm

Always keep the devices away from your body to ensure exposure levels remain at or below the as-tested levels.

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

AP5060D and AP5060U EU	AP5060D and AP5060U UK
2412-2472MHz: 20	2412-2472MHz : 20
2402-2480MHz (BT): 20	2402-2480MHz (BT): 20
2405–2480 MHz (802.15.4): 20	2405–2480 MHz (802.15.4): 20
5180-5240MHz : 23	5180-5240MHz : 23
5260-5320MHz : 23	5260-5320MHz : 23
5500-5700MHz : 30	5500-5700MHz : 30
5745-5825MHz : 13.98	5745-5825MHz : 23
5955-6415MHz : 23	5955-6415MHz : 23

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.

Low power access points subject to following conditions:

1. Operation shall be limited to indoor use only.
2. Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited except for large aircraft flying above 3,048 m (10,000 feet).

Standard power access points subject to following conditions:

1. Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited.
2. The antenna height shall be determined by the installer or operator of the standard-power access point or fixed client device, or by automatic means. This information shall be stored internally in the device. Provision of accurate device information is mandatory.

Warning IC Radiation Exposure Statement: This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This device was tested with a separation distance of:

- **AP5060U** - SAR (underseat installation) 25mm; MPE (pole mount) 50 cm
- **AP5060D** - MPE (pole mount) 50 cm

Devices shall not be used for control of or communications with unmanned aircraft systems.

Les appareils ne doivent pas être utilisés pour contrôler ou communiquer avec des systèmes d'aéronefs sans pilote.

Operation shall be limited to indoor use only.

Le fonctionnement doit être limité à une utilisation en intérieur uniquement.

Always keep device away from your body to ensure exposure levels remain at or below the tested levels.

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.

Fonctionnement du point d'accès intérieur à faible consommation sous réserve des conditions suivantes :

1. Le fonctionnement doit être limité à une utilisation en intérieur uniquement.
2. L'exploitation sur les plates-formes pétrolières, les automobiles, les trains, les navires maritimes et les avions est interdite, sauf sur les gros avions volant au-dessus de 3 048 m (10 000 ft).

Points d'accès à l'alimentation standard soumis aux conditions suivantes :

1. L'exploitation sur les plates-formes pétrolières, les automobiles, les trains, les navires et les avions est interdite.
2. La hauteur de l'antenne doit être déterminée par l'installateur ou l'opérateur du point d'accès à puissance standard ou de l'appareil client fixe, ou par des moyens automatiques. Ces informations doivent être stockées en interne dans l'appareil. La fourniture d'informations précises sur l'appareil est obligatoire.

Gardez toujours l'appareil éloigné de votre corps pour garantir que les niveaux d'exposition restent au même niveau ou en dessous des niveaux testés.

Avertissement Déclaration d'exposition aux radiations IC : Cet appareil a été testé et respecte les limites applicables en matière d'exposition aux radiofréquences (RF). Cet appareil a été testé avec une distance de séparation de:

- **AP5060U** - SAR 25mm; MPE 50 cm
- **AP5060D** - MPE 50 cm

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. ข้อความชี้แจงเกี่ยวกับกฎระเบียบ:
เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.

2. คำชี้แจงเกี่ยวกับการได้รับ RF:
เครื่องวิทยุคมนาคมนี้มิระดัับการแผ่คลื่นแม่เหล็กไฟฟ้าสอดคล้องตามมาตรฐานความปลอดภัยต่อสุขภาพของมนุษย์จากการใช้เครื่องวิทยุคมนาคมที่คณะกรรมการกิจการโทรคมนาคมแห่งชาติประกาศกำหนด



Taiwan

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。

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

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: “—” indicates that the restricted substance corresponds to the exemption.

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).

3. O produto poderá operar na faixa de 5150-5350MHz somente em ambientes fechado (indoor).

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.

3. Se restringe el funcionamiento de este equipo solo para uso en interiores,

4. A este equipo no deben conectarse antenas externas,

5. 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.

Declaration of Conformity in Language of the European Community

English	Hereby, Extreme Networks, declares that the radio equipment type (AP5060D and AP5060U) 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 Ra-dio laite tyyppi (AP5060D and AP5060U) on direktiivin 2014/53/EU mukainen.EU vaatimustenmukaisuusvakuutuksen täydellisestä tekstistä ota yhteyttä äärimmäisiin viranomais säädöksiin osoitteessa compliancerequest@extremenetworks.com
Dutch	Extreme Networks verklaart hier-bij dat het type radioapparatuur (AP5060D and AP5060U) in overeenstem-ming is met richtlijn 2014/53/EU.Voor de volle-dige tekst van de EU-conformiteitsverklaring u contact opnemen met extreme regelgeving op compliancerequest@extremenetworks.com
French	Par la présente, Extreme Networks dé-clare que le type d'équipement radio (AP5060D and AP5060U) 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 Com-pliance à compliancerequest@extremenet-works.com
Swed-ish	Härmed intygar Extreme Networks att ra-dioutrustning typ (AP5060D and AP5060U) överensstämmer med direktiv 2014/53/EU.För fullständig text av EU-försäkran om överens-stämmelse, vänligen kontakta Extreme rege-lefterlevnad på compliancerequest@extreme-networks.com
Danish	Herved erklærer Extreme Networks, at radi-oudstyrs typen (AP5060D and AP5060U) er i overensstemmelse med direktiv 2014/53/ EU.For den fulde ordlyd af EU-overens-stemmelseserklæringen bedes du kontakte Extreme Regulatory Compliance på compli-ancerequest@extremenetworks.com
Ger-man	Dabei erklärt Extreme Networks, dass der Funkgerätetyp (AP5060D and AP5060U) mit der Richtlinie 2014/53/EU im Einklang steht. Für den vollständigen Wortlaut der EU-Kon-formitätserklärung wenden Sie sich bitte an extreme Regulatory Compliance unter com-pliancerequest@extremenetworks.com
Greek	Με την παρούσα, ακραία δίκτυα δηλώνουν ότι ο τύπος του ραδιοεξοπλισμού (AP5060D and AP5060U) συμμορφώνεται με την οδηγία 2014/53/ΕΕ.Για το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ, παρακαλούμε επικοινωνήστε με την ακραία κανονιστική συμμόρφωση στο compliancerequest@ex-tremenetworks.com
Icelan-dic	Hérlendis, Extreme Networks, lýsa því yfir að útvarpsbúnaðargerðin (AP5060D and AP5060U) sé í samræmi við tilskipun 2014/53/ESB.Fyrir fullan texta í ESB yfirlýsingu um samræmi, vinsamlegast hafðu samband við Extreme Reglufylgni á compli-ancerequest@extremenetworks.com
Italian	Di conseguenza, Extreme Networks di-chiara che il tipo di apparecchiature radio (AP5060D and AP5060U) è conforme alla di-rettiva 2014/53/EU.Per il testo integrale della Dichiarazione di conformità dell'UE, contattare Extreme Regulatory Compliance presso com-pliancerequest@extremenetworks.com
Spanish	Por la presente, Extreme Networks declara que el tipo de equipo radioeléctrico (AP5060D and AP5060U) cumple con la Direc-tiva 2014/53/UE.Para obtener el texto comple-to de la Declaración de conformidad de la UE, póngase en contacto con Extreme Regulatory Compliance en compliancerequest@extreme-networks.com

Portu-guese	Por este meio, a Extreme Networks declara que o tipo de equipamento de rádio (AP5060D and AP5060U) está em conformi-dade com a Diretiva 2014/53/UE.Para obter o texto integral da Declaração de Conformidade da UE, contacte o cumprimento regulamentar extremo em compliancerequest@extreme-networks.com
Malti	B ' dan, netwerks estremi, jiddikjara li t-tip ta ' tagħmir tar-radju (AP5060D and AP5060U) huwa konformi mad-Direttiva 2014/53/UE.Għat-test shiħ 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 equip-ment (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 service-able 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 envi-ronment 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 col-lection system to ensure WEEE is properly treated. For treatment and recycling facilities, detailed informa-tion regarding the components, materials, and location of hazardous substances is available upon request 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 Net-works to determine whether any such changes have been made. The hardware, firmware, software or any specifica-tions described or referred to in this document are subject to change without notice.

Trademarks
Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries. All other names (including any product names) mentioned in this document are the property of their respective own-ers and may be trademarks or registered trademarks of their respective companies/owners. For additional information on Extreme Networks trade-marks, see: www.extremenetworks.com/company/legal/trademarks/

Extreme Wireless

Access Point

REGULATORY AND COMPLIANCE
AP5060D AND AP5060U

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.