


ExtremeMobility 802.11ax/ac/abgn Outdoor AP560i Access Point

Overview of AP560i

The AP560i is a cloud-ready, stadium-optimized Wi-Fi 6, and 802.11ax/ac/abgn outdoor access point with internal antenna. The AP560i access point caters to the stadium environment by supporting high density of users and devices.

The AP560i access point offers flexible deployment options and can be mounted under a seat, to a pole, and to a wall, thereby ensuring exceptional mobile experience throughout the stadium.

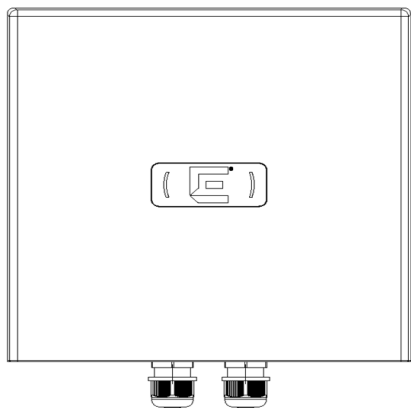
 **Note:** The AP560i requires a minimum base firmware of WiNG 71.1.

Features

The AP560i model access point has the following features:

- Radios: 2 radios (1 dual-band, 2.4GHz and 5GHz, and 1 band-locked 5GHz); 1 IoT Radio (2.4 GHz)
- Two Ethernet ports:
 - 1 x 100/1000/2500/5000 Mbps auto-negotiation Ethernet port, RJ45
 - 1 x 10/100/1000 Mbps auto-negotiation Ethernet port, RJ45
- Dimensions: 11.3" x 10" x 2.9" (288 mm x 254 mm x 75 mm)
- LEDs: Two top-mounted LEDs
 - All LEDs will be on during reset.
- Security locks:
 - One Kensington lock
 - One security hangar lock
- Power: PoE 802.3at
- Antenna:
 - One omnidirectional internal antenna
- Temperature:
 - -31 °F to +131 °F (-35 °C to +55 °C) operating temperature
 - -40 °F to +158 °F (-40 °C to +70 °C) storage temperature
- Enclosure: Plastic only

Figure 1 Front View of AP560i



Ordering Information

Table 1 AP560i Ordering Information

Part Number	Description
AP560i-FCC	Cloud-ready, Dual 5GHz, Dual-band, Sensor radio, Dual Radio 802.11ax/ac/abgn, 4x4:4 MIMO Outdoor 11ax access point. Internal Antenna. Domain: US

Verifying the AP560i Box Contents

Verify the contents of the box and ensure that the following items are available:

Table 2 Contents of the AP560i Box


Quantity	Item
1	AP560i Quick Reference
1	Cloud Quick Start Card
1	AP560i access point


Mounting Options

AP560i can be mounted under a seat, to a pole, and to a wall by purchasing separate mounting brackets, which are described in the following table.

Table 3 AP560i Mounting Brackets Usage

Mounting Bracket and Part Number	Wall Install	Pole Install	Under seat Install	Notes
EIO-03 under seat housing; requires WS-EIO-02 (#30524) silicone rubber kit	No	No	Yes	The access point needs to be positioned horizontally for under seat installation.
KT-147407-02 bracket; comes with three bracket parts	Yes	Yes	No	For attaching to a wall or a flat surface, use the bracket part that has two holes on the surface of the metal portion. For attaching to a pole, if the 1-axis tilt is not required, attach the pole part of the bracket to the access point. If 1-axis tilt is required, attach the pole part of the KT-147407-02 bracket on top of the second wall part.
KT-150173-01; extension arm; used with KT-147407-02 bracket parts	Yes; use the flat wall mount part of the KT-147407-02 bracket	Yes; use the pole mount part of the KT-147407-02 bracket	No	The KT-150173-01 extension arm can also be used by itself without the other KT-147407-02 bracket parts.

 **Note:** The AP560i cannot be installed without the mounting brackets.

 **Warning:** When installing the access point to a wall or to a pole, the cable glands need to face down.


AP560u and AP560m Access Point Bundles

AP560i access point can also be purchased as an under-seat or a pole-mount access point bundle along with the mounting brackets. The following table provides the details:

Table 4 AP560u and AP560m Ordering Details

Part Number	Access Point Bundle	Description
AP560u-FCC	Under seat access point bundle <ul style="list-style-type: none"> • AP560i-FCC access point • EIO-03 under seat housing • WS-EIO-02 (#30524) silicone rubber kit 	802.11ax High-Capacity Indoor/Outdoor AP with omni directional antenna. Targeted for under-the-seat deployments with a small physical footprint with flexible installation options and IP67 protection from surrounding elements such as weather, tampering from fans, and pressure washing. Two mounting options: flat or sloped.
AP560m-FCC	Pole mount access point bundle <ul style="list-style-type: none"> • AP560i-FCC access point • KT-147407-02 bracket kit* 	802.11ax High-Capacity Indoor/Outdoor access point with IP67 protection from environmental elements. Targeted for overhead and pole-mount deployments.

*The pole-mount KT-147407-02 bracket kit can also be used with KT-150173-01 extension arm for wall and pole installations.

 **Note:** The KT-150173-01 extension arm needs to be purchased separately.

For AP560u and AP560m installation instructions, refer to the respective *ExtremeMobility Access Point Quick Reference Guides* in the [Extreme Networks Documentation Support](#) site.

Professional Installation Instruction

Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

Installation location


The product shall be installed at a location where the radiating antenna can be kept 36 cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/IC limit and is prohibited.

Installation procedure

Please refer to user manual for the detail.

 **Warning:** Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

Installation

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.

Emplacement d'installation


En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 36 cm entre l'antenne émettrice et les personnes.

Antenne externe

Utiliser uniquement les antennes approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/IC, ce qui est interdit.

Procédure d'installation

Consulter le manuel d'utilisation.


 **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 prevent damage to the equipment.


Qualified Personnel:

 **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, 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 that to which the receiver is connected.
- Consult the dealer or an experienced radio/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 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.



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 20 cm between the radiator and your body.



Warning: FCC Radiation Exposure Statement: This EUT is compliant with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

Industry Canada (IC) Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

(1) Cet appareil ne doit pas provoquer d'interférences.


(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.


For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

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.

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.

 **Warning: IC Radiation Exposure Statement:** This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528.

 **Warning: IC Déclaration d'exposition aux radiations:** Cet EUT est conforme au SAR pour les limites d'exposition de la population générale / non contrôlée dans IC RSS-102 et a été testé conformément aux méthodes et procédures de mesure spécifiées dans IEEE 1528.

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.
- 4 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.

Notice

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

ExtremeMobility™ Outdoor Access Point

Quick Reference

AP560i-FCC

AP560i-WR