

## ExtremeMobility 802.11ax/ac/abgn Outdoor AP560h Access Point

### Overview of AP560h

The AP560h is a stadium-optimized Wi-Fi 6, 802.11ax/ac/abgn outdoor access point. The AP560h access point caters to the stadium environment by supporting high density of users and devices.

The AP560h access point offers flexible deployment options and can be mounted to a pole, to a wall, and to other access points with software selectable antennas, thereby ensuring exceptional mobile experience throughout the stadium.



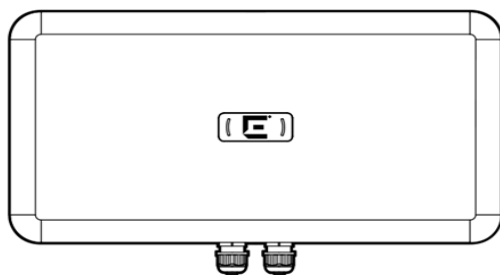
**Note:** The AP560h requires a minimum base firmware of WiNG 7.1.2.

### Features

The AP560h 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 18.9" x 3.5" (288 mm x 481 mm x 88 mm)
- LEDs: Two top-mounted LEDs
  - All LEDs will be on during reset.
- One Reset button
- Security locks:
  - One Kensington lock
  - One security hangar lock
- Power: PoE 802.3at
- Antennas:
  - Two software selectable internal antennas (30 and 70 degree directional antennas)
- Temperature:
  - -40°F to +131°F (-40°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 AP560h



### Ordering Information

Table 1 AP560h Ordering Information

Part Number	Description
AP560h-FCC	Cloud-ready, Dual 5GHz, Dual-band, Sensor radio, Dual Radio 802.11ax/ac/abgn, 4x4:4 MIMO Outdoor 11ax access point. Internal 30deg/70deg Panel Antenna. Domain: US

### Verifying the AP560h Box Contents

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

Table 2 Contents of the AP560h Box

Quantity	Item
1	AP560h Quick Reference
1	Cloud Quick Start Card
1	AP560h access point

### AP560t Access Point Bundle

AP560h access point can also be purchased as an overhead access point bundle called AP560t along with the mounting brackets and a service panel. The following table provides the details:

Table 3 AP560t Ordering Information

Part Number	Overhead Access Point Bundle	Description
AP560t-FCC	<ul style="list-style-type: none"> <li>• AP560h-FCC Access Point</li> <li>• 30520 (WS-MBO-POLE01) Bracket</li> <li>• MBO-ART02 Extension Arm</li> </ul>	Cloud-ready, Dual 5GHz, Dual-band, Sensor radio, Dual Radio 802.11ax/ac/abgn, 4x4:4 MIMO Outdoor 11ax access point. Internal 30deg/70deg Panel Antenna and Mounting Kit. Domain: US

Table 4 Service Panel Ordering Information

Part Number	Plastic service panels	Description
EIO-03-SP	<ul style="list-style-type: none"> <li>• Plastic service panel base</li> <li>• Plastic service panel top with one captive screw</li> <li>• Four, 75 mm long service panel shoulder screws</li> </ul>	Service Panel for AP560i/AP560h

### Mounting Options

AP560h can be mounted to a wall or to a pole by purchasing separate mounting brackets which are described in the following table.



**Note:** The AP560h cannot be installed without the mounting brackets.

Table 5 AP560h Mounting Brackets Usage

Mounting Bracket and Part Number	Wall Install	Pole Install	Notes
WS-MBO-POLE01 (#30520); Bracket; Also known as the Pole mounting bracket	No	Yes	If the pole diameter is <= 1" (25.4mm), use small cable clamp. If the pole diameter is between 5" - 7" (178mm), use large cable clamp. For any other pole diameter, provide your own stainless steel cable clamp. The band must be 1/2" (12.7mm) wide. The POLE01 bracket can be used only when paired with the MBO-ART02 bracket.
MBO-ART02; 10" 2-Axis articulating mounting bracket	Yes	Yes	The articulating mounting bracket is used with POLE01 bracket for pole install. The wall must be strong enough to support the access point during inclement weather.

For AP560t installation instructions, refer to the *ExtremeMobility AP560t Access Point Quick Reference Guide* 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's 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.

#### Antenn 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 26 cm between the radiator and your body.

#### 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, and (2) this device must accept any interference received, 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) exempts 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.



**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 31cm between the radiator & your body.



**Warning: Déclaration d'exposition aux radiations:** 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 31 cm de distance entre la source de rayonnement et votre corps.

### 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](mailto:Green@extremenetworks.com).

# ExtremeMobility™ Access Point

## Quick Reference

AP560h-FCC

AP560h-WR

### Notice

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