

ExtremeWireless Access Point Accessory EIO-04 Under-seat Mounting Solution

EIO-04 Overview

The EIO-04 is an under-seat mounting solution that is used as an accessory with the AP560i access point. The AP560i access point is a cloud-ready, stadium-optimized Wi-Fi 6, and 802.11ax/ac/abgn outdoor access point with internal antenna.

The EIO-04 under-seat solution comes with EIO-04 mounting kit and other hardware accessories, and can be mounted under a seat or under a bench.

Note: The AP560i requires a minimum base firmware of WiNG 7.1.1.

EIO-04 and WS-EIO-02 Order Details

The EIO-04 under-seat solution must be ordered separately.

Part Number	Order Details	Description
EIO-04	Under-seat mounting kit	Under-seat mounting solution for AP560i.
		Two mounting options: flat or sloped.
WS-EIO-02	Silicone rubber kit (#30524)	Silicone rubber chamfer gasket kit for access point under-seat mounting kit.

EIO-04 and WS-EIO-02 Box Contents

Ensure that the following items are available:

Table 1 EIO-04 box contents

Quantity	Item
1	EIO-04 Quick Reference Guide
1	Metal sloping bracket
2	Metal "L" brackets
1	Plastic service panel base
1	Plastic service panel top with one captive screw
4	Two blank conduit covers each for the metal sloping bracket and the service panel base
2	One 1/2 in. conduit cover each for the metal sloping bracket and the service panel base
2	One 3/4 in. conduit cover each for the metal sloping bracket and the service panel base
1	Hardware bag containing: <ul style="list-style-type: none"> Six 10 mm M6 screws with integral washer Four 75 mm service panel shoulder screws Four flat washers for anchors Four lock washers for anchors Four anchor posts Four anchor sleeves Anchor assembly instruction sheet

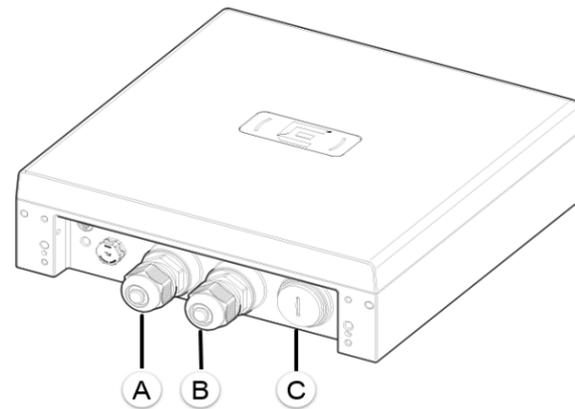
Table 2 WS-EIO-02 box contents

Quantity	Item
2	Silicone rubber gaskets
2	Shoulder screws (security torx, T20 bit-size)
1	URL Card

Note: Use the WS-EIO-02 kit when you have concerns about dirt getting between the EIO-04 rear and the stadium riser.

Install the EIO-04 under-seat solution with the AP560i access point

Figure 1 AP560i access point



Callout	Description
A	GE1 port
B	GE2 port
C	Console port

The EIO-04 under-seat mounting kit can be installed on a:

- Slope
- Flat surface such as stadium floor
- Riser

Note: The best practice is to install the EIO-04 under-seat mounting kit horizontally. The EIO-04 under-seat mounting kit can be installed vertically, on a slope or on a flat surface vertically if it is being installed on a stadium riser.

Install the EIO-04 under-seat mounting kit with the AP560i access point on a slope

The following hardware is required to install the EIO-04 under-seat mounting kit on a slope:

Table 3 Hardware requirements for slope installation

Quantity	Item
1	AP560i access point
6	10 mm M6 screws with integral washer
4	75 mm service panel shoulder screws
2	Anchor posts
2	Flat washers for anchors
2	Lock washers for anchors
1	Metal "L" bracket
1	Plastic service panel base
1	Plastic service panel top with one captive screw
1	Metal sloping bracket

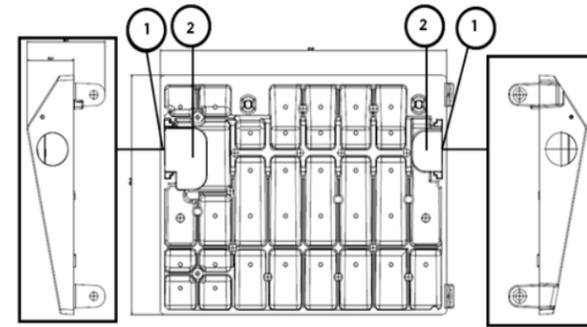
Attach the metal sloping bracket on a slope:

- Using the metal sloping bracket as a template, mark and drill two holes in the concrete.
- Insert the anchors without the nuts and washers.
- Place the metal sloping bracket, attach the nuts and washers to the exposed threads, and torque them to 60 in-lbs.

Attach the conduit cable through the slope or through the conduit holes on the metal sloping bracket:

- Attach the conduit couplers to the conduit.
 - Remove the locking nut.
- For the conduit hole that is not used, insert a blank conduit cover over the conduit hole in the slope.

Figure 2 Metal sloping bracket conduit holes



Callout	Description
A	Conduit holes on either sides of the metal sloping bracket
B	Conduit cable holes in the slope

- If you are using the left side conduit hole on the metal sloping bracket, attach the correct size conduit cover to the conduit hole.
- Tighten the locking nut.
- If you are using the conduit hole in the slope, attach the conduit coupler and the locking nut directly to the slope conduit hole.

Note: The slope conduit must be 1" in diameter to attach the conduit coupler and the nut directly in the slope.

- If you are using the right side conduit hole in the slope, repeat step 3.
- Run the cable through the conduit and add the RJ45 connectors to the wires.

Note: The cable must have 1" bend radius and be accessible to the glands on AP560i access point.

For more information about GE1 or GE2 cable, refer to "Connect the GE1 or GE2 cable" topic.

Attach the metal "L" bracket to the AP560i access point:

- Attach the metal "L" bracket to the gland side of the AP560i access point using two M6 screws.
- Torque the screws to 35 in-lbs.

Install the AP560i access point on the slope:

- Align and center the alignment holes of the AP560i access point and the side tab extension holes, and attach the access point to the tabs using two M6 screws.
- Attach the gland side of the AP560i access point, that has the "L" bracket to the metal sloping bracket using two M6 screws.
- Push the AP560i access point to the rear as far as it would go.
- Torque the screws to 35 in-lbs.

Install the EIO-04 under-seat mounting kit with the AP560i access point on a flat surface

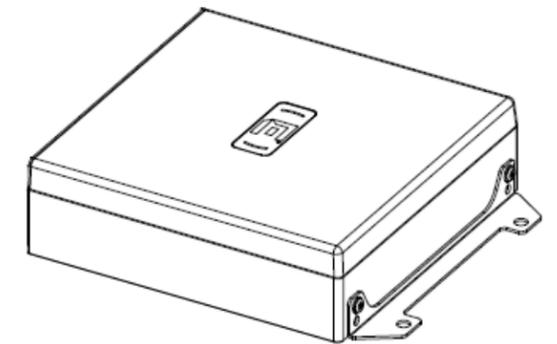
The following hardware is required to install the EIO-04 under-seat mounting kit on a flat surface:

Table 4 Hardware requirements for flat surface installation

Quantity	Item
1	AP560i access point
4	M6 screws with integral washer
4	75 mm service panel shoulder screws
2	Metal "L" bracket
1	Plastic service panel base
1	Plastic service panel top with one captive screw
4	Concrete anchors with nuts, washers, anchor posts, and anchor sleeves

- Attach a metal "L" bracket on each side of the AP560i access point using two M6 screws for each bracket. Torque the M6 screws to 35 in-lbs.
- Use the metal "L" brackets as a template, mark four hole centers, and drill in the concrete.
- Insert four concrete anchors into the holes without the washers and nuts.
- Place the metal "L" bracket over the threaded anchor posts and put on the flat-washer, the spring washer, and the nut on each side.
- Torque the nuts to 60 in-lbs.

Figure 3 AP560i flat surface installation with metal "L" brackets



Connect the GE1 or GE2 cable

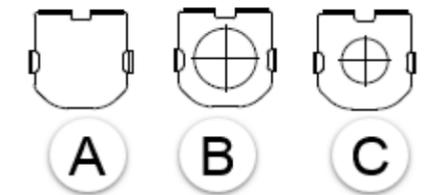
The GE1 or GE2 cable can be connected through:

- The front or the rear holes on the sides of the service panel base
- The large conduit hole on the metal sloping bracket

The following hardware is required to attach the GE1 or GE2 cable through the rear hole of the service panel base:

- GE1 or GE2 cable.
- One blank conduit cover to cover the front hole on the side of the service panel base.
- One 1/2 in. or 3/4 in. conduit cover, depending on the circumference of the GE1 or GE2 cable.
- One or two blank conduit covers for the metal sloping bracket.
- Service panel base.
- Service panel top.

Figure 4 Service panel metal conduit covers



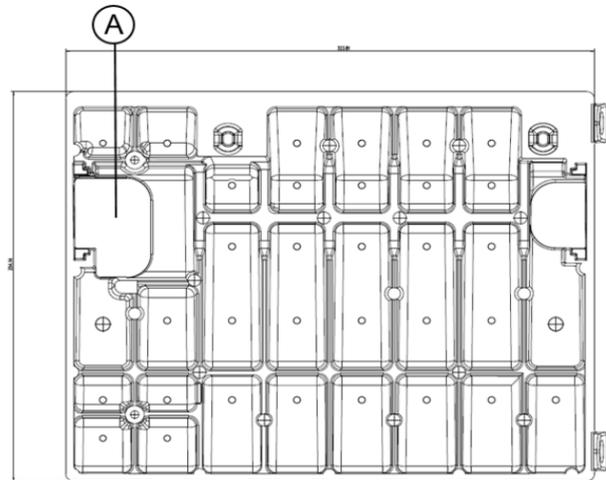
Label	Description
A	Blank conduit cover to cover the front hole on the side of the service panel base
B	1/2 in. conduit cover
C	3/4 in. conduit cover

- Using the blank conduit cover, cover the front hole of the service panel base.
 - Attach either the 1/2 in. conduit cover or the 3/4 in. conduit cover to the rear hole of the service panel base.
 - Bring in the GE1 or GE2 cable, and the ground wire through the rear side hole of the service panel base.
 - Loosely align the service panel base next to the metal sloping bracket, thereby leaving enough space to attach the GE1 or GE2 cable to the access point.
 - Attach the ground wire to the AP560i access point.
 - Remove the gland caps, plastic cage, and the gasket from the GE1 port.
 - Connect the GE1 LAN cable through the GE1 gland port until it clicks into place in to the GE1 port.
- If there is a GE2 connection, insert the cable through the GE2 gland until it locks into place in to the GE2 port.
- Torque the gland cap to 12-in lbs.
 - Fold and arrange the GE1 cable into the gap of the metal sloping bracket and the service panel base.

Note: The GE1 cable must not be bent sharply and must have 1 in. bend radius.

Attach the GE1 or GE2 cable using the large conduit hole on the metal sloping bracket

Figure 5 Metal sloping bracket with the large conduit hole



Label	Description
A	Large conduit hole on the metal sloping bracket

The following hardware is required to attach the GE1 or GE2 cable through the large conduit hole on the metal sloping bracket:

- GE1 or GE2 cable
- Two blank conduit covers to cover the front and the rear holes on the side of the service panel base
- One metal sloping bracket

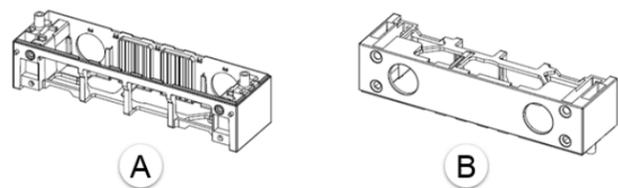
Note: The conduit cover used on the metal sloping bracket can extend above the concrete floor but, cannot extend above the slope.

- 1 Attach the metal sloping bracket to the concrete floor using two anchors, nuts, and washers (see "Attach the metal sloping bracket on a slope:" on page 1).
- The conduit must extend out of the concrete by a minimum of 1/4 in. The maximum length is below the slope surface.
- 2 Bring in the GE1 or GE2 cable through the conduit hole.
- 3 Remove the gland cap, plastic cage, and the gasket from the GE1 port.
- 4 Connect the GE1 LAN cable through the GE1 gland port until it clicks into place in to the GE1 port.
- If there is a GE2 connection, insert the cable through the GE2 gland until it locks into place in to the GE2 port.
- 5 Torque the gland caps to 12-in lbs.
- 6 Fold and arrange the cables into the gap of the metal sloping bracket and the service panel base.

Install the plastic service panels to the AP560i access point:

- 1 Attach the plastic service panel base to the AP560i access point using four, 75 mm service panel shoulder screws.

Figure 6 Plastic service panel base



Callout	Description
A	Plastic service panel base
B	Side view of plastic service panel base

- 2 Torque the screws to 13 in-lbs.
- 3 Attach the GE1 cable to the AP560i access point through the metal sloping bracket or the service panel base.

- 4 Place the service panel top over the service panel base and lock it into place using the captive screw on the service panel top.

Figure 7 Plastic service panel top



Callout	Description
A	Plastic service panel top captive screw

- 5 Tighten the captive screw to 4.5 in-lbs by hand.

Professional Installation Instruction

Installation personal

This product is designed for specific application and needs to be installed by a qualified personnel 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 that have been approved by the applicant. The non-approved antennas may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC and IC limit and is prohibited.

Installation procedure

Please refer to user manual for 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 destine a un usage specifique et doit etre installe par un personnel qualifie maitrisant les radiofrequences et les regles s'y rapportant. L'installation et les reglages ne doivent pas etre modifies par l'utilisateur final.

Emplacement d'installation

En usage normal, afin de respecter les exigences reglementaires concernant l'exposition aux radiofrequences, ce produit doit etre installe de facon a respecter une distance de 36 cm entre l'antenne emettrice et les personnes.

Antenn externe

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

ProcEDURE 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 depasse pas les limites en vigueur. La violation de cette regle peut conduire a de serieuses penalites federales.

**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 must perform installation procedures. Within the context of the safety notes in this documentation, qualified persons are defined as persons who are authorized to commission grounding, 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.

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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