



ExtremeWireless™ AP4060 Installation Guide

Setup, Maintenance, and Best Practices

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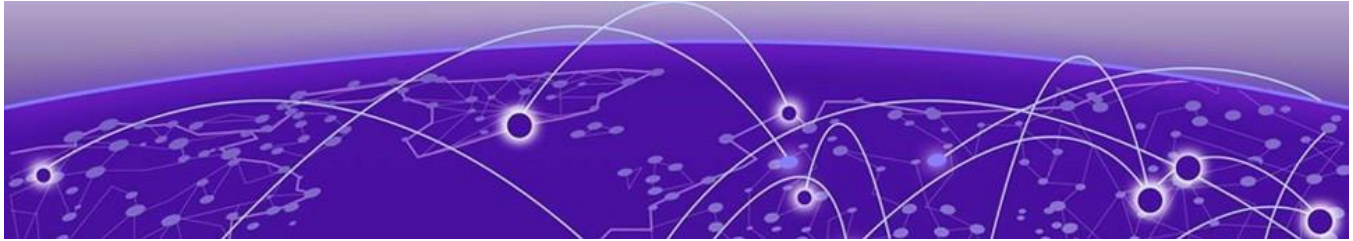
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Preface

Read the following topics to learn about:

- The meanings of text formats used in this document.
- Where you can find additional information and help.
- How to reach us with questions and comments.

Text Conventions

Unless otherwise noted, information in this document applies to all supported environments for the products in question. Exceptions, like command keywords associated with a specific software version, are identified in the text.

When a feature, function, or operation pertains to a specific hardware product, the product name is used. When features, functions, and operations are the same across an entire product family, such as Extreme Networks switches or SLX routers, the product is referred to as *the switch* or *the router*.

Table 1: Notes and warnings

Icon	Notice type	Alerts you to...
	Tip	Helpful tips and notices for using the product
	Note	Useful information or instructions
	Important	Important features or instructions
	Caution	Risk of personal injury, system damage, or loss of data
	Warning	Risk of severe personal injury

Table 2: Text

Convention	Description
screen displays	This typeface indicates command syntax, or represents information as it is displayed on the screen.
The words <i>enter</i> and <i>type</i>	When you see the word <i>enter</i> in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says <i>type</i> .
Key names	Key names are written in boldface, for example Ctrl or Esc . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press Ctrl+Alt+Del
<i>Words in italicized type</i>	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.
NEW!	New information. In a PDF, this is searchable text.

Table 3: Command syntax

Convention	Description
bold text	Bold text indicates command names, keywords, and command options.
<i>italic text</i>	Italic text indicates variable content.
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, such as passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <i>member[member...]</i> .
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and Software Compatibility](#) for Extreme Networks products

[Extreme Optics Compatibility](#)

[Other Resources](#) such as articles, white papers, and case studies

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Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit the [Extreme Networks Training](#) page.

Help and Support

If you require assistance, contact Extreme Networks using one of the following methods:

[Extreme Portal](#)

Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training, and certifications.

[The Hub](#)

A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

[Call GTAC](#)

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2800. For the support phone number in your country, visit www.extremenetworks.com/support/contact.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number, or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any actions already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

Subscribe to Product Announcements

You can subscribe to email notifications for product and software release announcements, Field Notices, and Vulnerability Notices.

1. Go to [The Hub](#).
2. In the list of categories, expand the **Product Announcements** list.
3. Select a product for which you would like to receive notifications.
4. Select **Subscribe**.
5. To select additional products, return to the **Product Announcements** list and repeat steps 3 and 4.

You can modify your product selections or unsubscribe at any time.

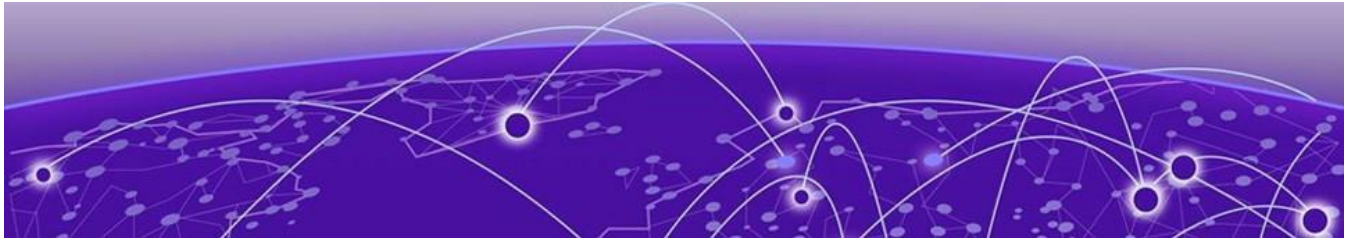
Send Feedback

The User Enablement team at Extreme Networks has made every effort to ensure that this document is accurate, complete, and easy to use. We strive to improve our documentation to help you in your work, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information.
- Broken links or usability issues.

To send feedback, email us at documentation@extremenetworks.com.

Provide as much detail as possible including the publication title, topic heading, and page number (if applicable), along with your comments and suggestions for improvement.



Overview

- [Purchase Information](#) on page 10
- [Technical Specifications](#) on page 10
- [Ports, Connectors, and Hardware Features](#) on page 11
- [Radios](#) on page 12
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The AP4060 is an WI-Fi 7 universal access point with an internal Omni antenna. It is designed for the high density environments where a large number of people will access your network such as schools, warehouses, healthcare facilities, and stadiums. It is an *outdoor AP* and is designed for harsh conditions with an extended temperature range of -40°C to +60°C (-40°F to 140°F).

It can be installed on either a 15 or 80 degree tilt:

- 15 Degree Tilt: KT-147407-02
- 12 in. Extension: KT-150173-01
- 80 Degree tilt + Ext.: MBO-ART03

You can operate the radios across the following frequency bands (1x1):

- 5G: 5.15-5.85GHz
- 5G-High: 5.5-5.85GHz
- 5G-Low: 5.15-5.35GHz
- 6G: 5.945G to 7.125G
- 6G-High: 6.525G to 7.125G
- 6G-Low: 5.945G to 6.425G

You can operate the AP in two modes:

- Mode 1: 2.4 GHz /5 GHz/6 GHz data radios and sensor
- Mode 2: 2.4 GHz, and dual 5 GHz, and sensor

Standard power is available for US and Canada.

Purchase Information

Use the information below when you order your AP.

Table 4: Access Point Part Number

Part number	Description
AP4060-WW	Outdoor Quad Radio Wi-Fi 7 (2x2:2): 2.4GHz, 5GHz, 6GHz and dedicated sensor, Multi-Rate Port, internal antennas. Domain: World SKU
AP4060-WW-TAA	Outdoor Quad Radio Wi-Fi 7 (2x2:2): 2.4GHz, 5GHz, 6GHz and dedicated sensor, Multi-Rate Port, internal antennas. Domain: World SKU TAA Compliant

Technical Specifications

The AP4060 features 802.11be, also known as Extremely High Throughput (EHT).

For more information about the technical specifications, see the AP4060 Data Sheets [found here](#).

Physical Specifications

The AP4060 has the following dimensions and weight:

- Dimensions: 9.8 in. x 9.8 in. x 2.9 in. (251 mm x 251 mm x 73.7 mm)
- Weight: 1.88 lbs (0.85 kg)

Environmental Specifications

The following list shows the environmental operating conditions for the AP4060:

- Operating: -40°C to 60°C (-40°F to 140°F)
- Storage: -40°C to 70°C (-40°F to 158°F)
- Humidity: 0% to 95% (non-condensing)
- Wind Rating: 165 Mph sustained winds
- Operational Shock: IEC60721-3-4, Class 4M3; ASTM D3332-99; MIL STD 810H Method 516
- Operation Vibration: ASTM D3580-95, IEC60721-3-4, Class 4M3 (IEC 60068-2-64)

Antenna Specifications and Radiation Patterns

Use the information in the following sections to assist you as you plan your installation.

The AP4060 has the following internal antennas:

- Two (2) Omni dual band 2.4 GHz (4dBi) and 5 GHz (6dBi)
- Two (2) Omni dual band 5 GHz (6dBi) and 6 GHz (6dBi)
- One (1) 2 GHz/5 GHz/6 GHz sensor

- Three (3) IoT sensor
- One (1) GPS

Coverage: Symmetrical coverage. 60 degree Sector: 8dBi on 6GHz

Ports, Connectors, and Hardware Features

Note

Power Sourcing Equipment (PSE) is disabled by default.

The AP4060 has the following ports, connectors, and hardware features:

- One USB 2.0 type A connector (5V/500mA with PoE 802.3at or 5V/1,000mA with PoE 802.3bt)
- Two Ethernet ports (ETH0 and ETH1) with RJ45 connectors
 - Eth0, Eth1: (2) wired Ethernet ports (RJ45) 100/1,000/2,500/5,000 Mbps auto-sensing link speed Ethernet port, PoE PD
 - 802.3az Energy-Efficient Ethernet (EEE)

Radios

The AP4060 has the following radios:

- Three 802.11ax radios 2.4 GHz (2x2:2), 5 GHz (2x2:2) and 6 GHz (2x2:2)
- One Internet of Things (IoT)/Bluetooth Low Energy (BLE) radios
- One scan radio (1x1) 2.4 GHz, 5 GHz, and 6 GHz

Maximum users:

- SSID per radio: 16/48
- Users per radio: 512/1536

Power Options

The AP4060 supports the following power options:

- Power Draw: 802.3at PoE: Typical 21W
- 12V DC/3A. DC power has priority when both DC and PoE power sources are available
- PoE failover

Power Profile

The following table shows the AP4060 power profile.

Table 5: 802.3at Power Droffilg

AP4060	Radio 1	Radio 2	Radio 3	1x1 Sensor	USB
Mode 1 (AT)	2.4G 16 dBm	5.0G - Full 15 dBm	6.0G - Full 16 dBm	1x1 Sensor	2.5W
Mode 2 (AT)	2.4G 16 dBm	5.0G - High 15 dBm	5.0G - Low 16 dBm	1x1 Sensor	2.5W
Mode 3 (AT)	2.4G 16 dBm	5.0G - Full 18 dBm	6.0G - Full 18 dBm	1x1 Sensor	0W
Mode 4 (BT)	2.4G 18 dBm	5.0G - Full 18 dBm	6.0G - Full 18 dBm	1x1 Sensor	5.0W

Accessories

The AP4060 is designed for multiple deployment scenarios. Use the information in the following tables to match your deployment scenario with the required accessories.

Table 7: Power Accessories

Item	Description
PD-9001GO-ENT	Outdoor 802.3at PoE single port midspan.

The following table lists the supported mounting accessories. For more information, see the [Wi-Fi6 11ax Accessories Installation Guide](#).

Table 8: Supported Mounting Accessories

Item	Description
Mount to a Pole or a Wall Vertically	
AH-ACC-STRP-MRN	Outdoor access point stainless steel hose strap for 3 in. – 7 in. diameter pole. Order (2) for mounting AP4060 to a pole.
AH-ACC-BKT-ASM	Outdoor access point stainless steel wall bracket assembly. Allows the AP to mount to a wall.
Mount to a Pole or a Wall with +/- 15-Degree Tilt and/or Extension	
ACC-MBO-KT-AX	Adapter bracket for outdoor access point to tilt.
KT-147407-02	Allows +/- 15-degree tilt – wall or pole mount.
KT-150173-01	Allows 12 in. extension – use with KT-147407-02 for pole and/or tilt.
Mount to a Wall with > 15-Degree Tilt and Variable Extension	
ACC-MBO-KT-AX	Adapter bracket for AP4060 Outdoor tilting and variable extension lengths (7.0 in., 8.5 in., and 10.0 in.).
MBO-ART03	MBO-ART03 Articulating Mounting Bracket. Allows 2 axis +/- 80-degree tilt (20-degree increments) and 10 inches extension - wall

LED Descriptions

The LED status light shows the AP's operating status. A solid white means that the AP is working normally. A solid or blinking amber indicates an issue. The following table shows the LED states based on your firmware platform.

Table 9: ExtremeCloud IQ LED Activity

Status	Activity
Dark	AP is powered Off.
Solid white	The device power is On and the AP is ready to use. The device has successfully established a Control And Provisioning of Wireless Access Points (CAPWAP) connection to ExtremeCloud IQ and is operating normally.

Table 9: ExtremeCloud IQ LED Activity (continued)

Status	Activity
Slow-blinking white	The device has a CAPWAP connection to ExtremeCloud IQ, but is operating on 802.3at power instead of 802.3bt power.
Solid amber	The power is On and the AP is in boot up mode, or is running without a CAPWAP connection.
Slow-blinking amber	The device has no CAPWAP connection to ExtremeCloud IQ, and is operating on 802.3at power instead of 802.3bt power.
Fast-blinking amber	The IQ Engine firmware is updating.

Micro USB Cable

You can order a micro USB console adapter for your access point using the part number ACC-WIFI-MICRO-USB.

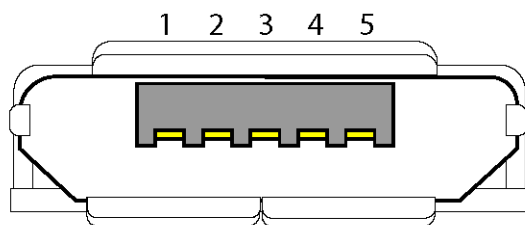
Micro USB Console Information

Use the console port to make a serial connection between your management system and the access point. You can order a micro USB console adapter for your access point using the part number ACC-WIFI-MICRO-USB.



Note

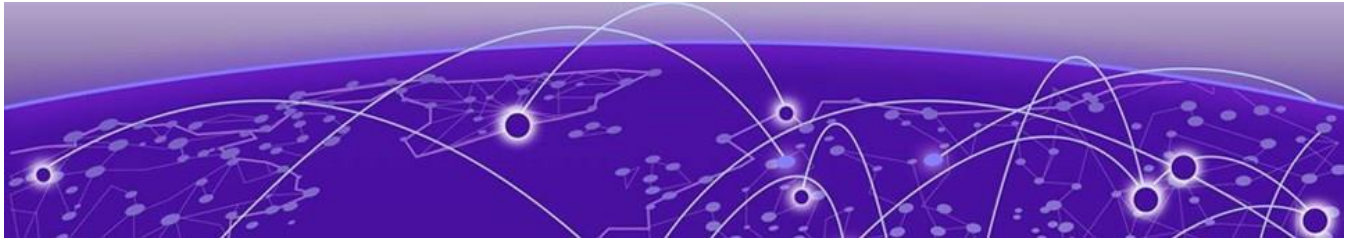
When you connect to the Micro USB console port, the management station from which you connect to the device must have a VT100 emulation program, such as TeraTerm Pro (a free terminal emulator) or Hilgraeve HyperTerminal (provided with Windows operating systems from XP forward).

**Figure 6: Micro-B model Console Port Pin Information****Table 10: Micro-B USB Pin Information**

Pin number	Pin name and description
1	NC
2	RxD (input to access point)
3	TxD (output to terminal)

Table 10: Micro-B USB Pin Information (continued)

Pin number	Pin name and description
4	Signal (GND)
5	Signal (GND)



Installation

[Hardware Installation Workflow](#) on page 16

[Pre-Installation Tasks](#) on page 18

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[Install the Access Point on a Unistrut Structure Using the MBO-ART03 Bracket](#) on page 20

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[Pole Installations](#) on page 27

[Connect the ETH1 or ETH0 cable](#) on page 29

[Connect the ETH1 or ETH0 Cable through the Service Panel Base](#) on page 30

[Ground the Access Point](#) on page 32

The AP4060 is an outdoor access point that can be installed on a wall or pole. For more information about selecting the right access point bracket and accessory for your installation needs, see the *Extreme Networks 11.ax Access Points Accessories Guide*.

Hardware Installation Workflow

Access points are automatically added to your network when the DHCP and DNS prerequisites have been met. But you can save time and configure the AP before you install it with the pre-provision mode. You can revert the AP to production mode when you are ready for deployment.



Note

Confirm that Domain Name System (DNS), Network Time Protocol (NTP), and the firewall ports are configured and available before deployment. Create a firewall rule to enable outbound traffic from Extreme Networks devices. For more information about firewalls, see [Firewall Configuration Guides](#).

You should configure the DHCP options on your DHCP server to assign an allowed NTP server to Extreme Networks devices. Both DNS and NTP are critical for country and region detection and certificate validation. For more information about DNS and NTP, see *ExtremeCloud IQ Controller Deployment Guide* for Cloud deployment and *Extreme Campus Controller Deployment Guide* for Campus or on-premises deployment.

For more information on deployment, see the AP deployment information in [ExtremeCloud IQ Controller documentation](#) and the [IQ Engine documentation](#). Before you install your AP, read the [Accessories](#) section and confirm that you have the needed accessories.

Use the information in the following table to help you install your access point.

Table 11: Installation Work Flow

Step S	Action	Purpose
1	Verify the box contents.	Confirm that your AP and accessories arrived complete and undamaged.
2	Install the access point based on one of the following scenarios. Install the AP on wall: • Install the Access Point on a Wall or Flat Surface with the AH-ACC-BKT-ASM Bracket • Install the Access Point on a Wall or Flat Surface with the KT-147407-02 Bracket • Install the Access Point Using KT-147407-02 Bracket Parts and KT-150173-01 Extension Arm • Install the Access Point on a Wall with the MBO-ART03 Bracket • Install the Access Point on a Wall Using ACC-MBO-KT-AX Adapter and MBO-ART03 Articulating Mounting Bracket Install the AP on pole; may need the AH-ACC-STRP-MRN: • Install the Access Point on a Pole with the MBO-ART03 and KT-147407-02 Brackets on page 27 • Install the Access Point on a Pole Using KT-147407-02 Bracket Parts • Install the Access Point on a Pole Using KT-147407-02 Bracket Parts and KT-150173-01 Extension Arm Other: • Install the Access Point on a Unistrut Structure Using the MBO-ART03 Bracket	Install the AP on a ceiling or wall, and connect the network cable. If you use Power over Ethernet (PoE), then the AP powers up. The AP begins a discovery process to determine its own IP address and the IP address of the controller. When the discovery process is successful, the AP registers with the controller.
3	(Optional) Onboard the AP with the ExtremeCloud IQ Mobile Onboarding application	Scan the QR code or bar code on the back of the device and begin the onboarding process.
4	Ground the AP.	Group the AP and protect the AP from lightning.
5	Confirm that the LED is white.	A white LED indicates that your AP has powered up and registered with the Cloud. An amber light indicates a technical issue that requires a resolution.

Pre-Installation Tasks

Extreme Networks Access Points have been designed for quick and easy deployment. But you can make the process even easier with a little preparation.

Site Survey

Before you install your AP, do a site survey and coverage map so you have identified and addressed any potential issues.

Ask yourself the following questions:

- What is the WLAN's purpose?
- What applications will be used over the WLAN?
- Who will use the WLAN?
- What devices will be connecting to the WLAN?
- Are there any mounting or aesthetic restrictions?

Consider the following items as you plan your deployment:

- Capacity and coverage requirements.
- Existing issues such as RF interference and dead zones
- Existing networks or devices that can interfere with your network. There could be interference from floors above and below, or from outside sources such as nearby office buildings.

For more information on site surveys, see the Knowledge Base article [What is Wireless Site Survey and why is it important?](#)

Other

Perform the following tasks:

- If you plan to use Power over Ethernet (PoE) then confirm that it meets the AP's requirements. See [Power Profile](#).
- Document the switch and ports used by the AP with LLDP protocol.
- Confirm cables meet or exceed the required specifications.
- Check that the AP power ups correctly.

Box Contents

Your Extreme access point ships with everything that you need for a basic installation. All optional brackets and accessories are sold separately.

Confirm that you have received the following items before you install your device.

Table 12: Hardware

Quantity	Item
1	Extreme AP4060
1	Regulatory document for your access point
2	Phillips pan head wood screws
2	Phillips head plastic screw-in anchors

Access Point Bracket Usage and Mounting Options

The AP4060 can be mounted on a wall, or to a pole, as described in the following table. For more information on individual accessories, see [802.11ax and Cloud Access Points Accessories Guide](#).



Warning

When installing the access point on a wall or to a pole, the cable glands must face down.

Table 13: Mounting Bracket Options

Mounting bracket and part number	Unistrut install	Wall install	Pole install	Notes
AH-ACC-BKT-ASM	No	Yes	No	Outdoor AP stainless steel wall bracket assembly. Allows the AP to mount to a wall
AH-ACC-STRP-MRN	No	No	Yes	Outdoor AP stainless steel hose strap for 3 in. – 7 in. diameter pole. Order (2) for mounting AP to a pole
ACC-MBO-KT-AX	No	Yes	Yes	Adds a tilt to the AP after installation. For pole installations, the ACC-MBO-KT-AX adapter is used with the KT-147407-02 bracket wall and pole parts.
KT-147407-02	No	Yes	Yes	Allows +/- 15-degree tilt for wall or pole mount. For wall installations, the -MBO adapter is used in combination with the KT-147407-02 bracket wall parts. For pole installations, the ACC-MBO-KT-AX adapter is used with the KT-147407-02 bracket wall and pole parts.

Table 13: Mounting Bracket Options (continued)

Mounting bracket and part number	Unistrut install	Wall install	Pole install	Notes
KT-150173-01	No	Yes	Yes	Allows 12 in. extension – use with KT-147407-02 for pole and/or tilt. Wall installation: For +/-15 degree tilt, attach the KT-150173-01 extension arm to the 1-axis KT-147407-02 tilt part. For pole installation: Use with the KT-147407-02 bracket.
ACC-MBO-KT-AX	No	Yes	Yes	Adapter bracket for tilting and variable extension lengths (7.0 in., 8.5 in., and 10.0 in.). Use with the KT-147407-02 bracket parts and the KT-150173-01 extension arm.
MBO-ART03	Yes	Yes	Yes	Articulating Mounting Bracket. Adjustable 7.5", 9", and 10.5" extension with 2-axis +/-80 degree (in 10 degree increments). For wall installations, the wall must support the AP during inclement weather. For pole installation, use with the KT-147407-02 bracket.

Install the Access Point on a Unistrut Structure Using the MBO-ART03 Bracket

About This Task

The MBO-ART03 bracket has +/- 80-degree (in 10-degree increments) 2-axis tilt and variable 7 inches to 10 inches extension. The bracket comes installed with M6 pivot screws.

On the MBO-ART03 bracket's flat surface, there are three large holes for interfacing with the Unistrut metal frame. There are two smaller holes for M6 bolts for mounting to the KT brackets or a wall also. Each metal bracket on either end of the ART03 bracket has two bent sections with two pivot holes and serrated lock positions.

The length on the bent sections can be adjusted, if desired. Move the pivot points to increase the MBO-ART03 bracket's extension lengths to 7.5 in. to 9.0 in., or 10.5 in.

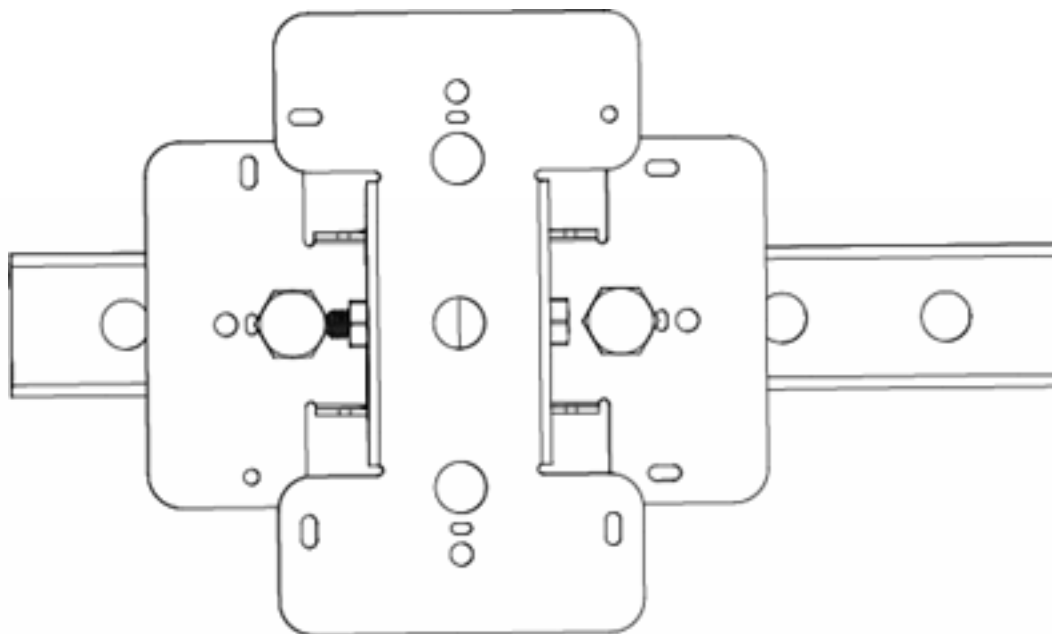


Figure 7: MBO-ART03 bracket attached to the Unistrut structure

Procedure

1. Using the M12 bolts, split washers, and hex nuts, attach the MBO-ART03 bracket to the Unistrut structure.

The MBO-ART03 bracket's metal plate can be in a vertical or horizontal position.

2. Torque the bolts and nuts to 312 in-lbs.
3. Using the two short M6 screws, attach the access point with the glands facing the ground.

There are four holes on the access point and only two holes are used for attaching to the MBO-ART03 bracket.

4. Tighten the M6 screws to 45 in-lbs.
5. Attach the LAN cables to the access point.
6. To adjust the MBO-ART03 bracket's angular position, remove the long M6 degree locking screw and adjust the bracket axis to the desired angle.
7. Insert the degree adjustment locking screw and attach the locking nut until hand tight.

Repeat the angular position adjustment process on the other axis, if desired.

8. Tighten the long bolts to the following values: .M6 degree locking bolts at 50 in-lbs; M8 pivot bolts at 90 in-lbs.

Adjust the MBO-ART03 bracket's extension

About This Task

After you have installed the bracket, you adjust the extension.

Procedure

1. Remove the pivot screw and nut.

2. Move the MBO-ART03 bracket arm's center hole to the other pivot hole on the bracket.
3. Insert the pivot screw through the bracket and the arm.
4. Attach the pivot nut to the screw.
Use a crescent wrench or a 13 mm tool to tighten the pivot screws and nuts.
5. Torque the screws and nuts to finger tightness.

Adjust the MBO-ART03 bracket's angular position

About This Task

After you have installed the bracket, you adjust the tilt.



Note

The access point glands should point downward to prevent water entry.

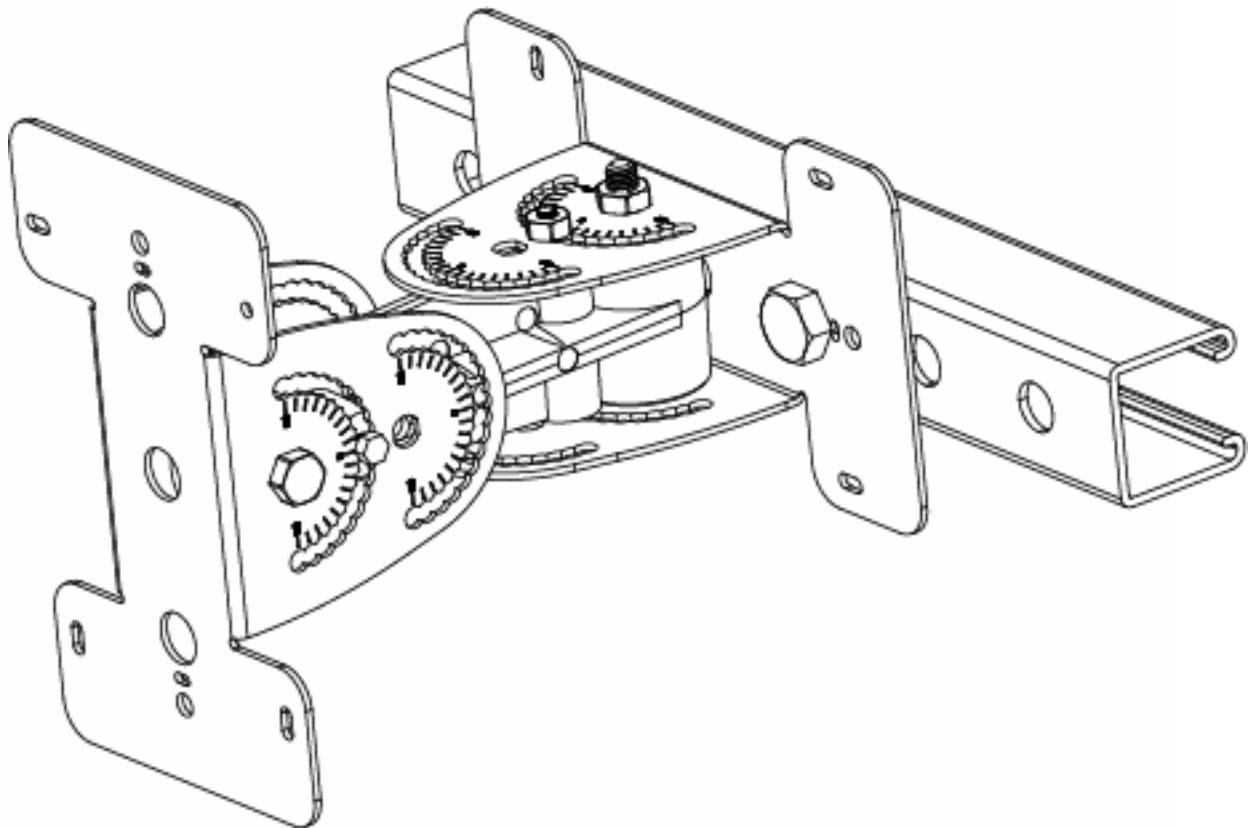


Figure 8: MBO-ART03 bracket angular adjustments

Procedure

1. The horizontal and vertical adjustments can be made in 10 degree increments.
The increments are marked on the MBO-ART03 bracket.
2. Rotate the arm to the desired position.
3. When the lock screw hole lines up with the appropriate serrated screw hole, insert the long M6 screw and fasten with a hex nut.

4. Torque the lock screws and nuts to 45 inch-lbs.
5. Torque the pivot screws and nuts to 60 inch-lbs.

The left to right adjustment can be made to any angle, with the access point having at least 1 in. clearance from another object.



Note

The best practice is to make the vertical adjustment before attaching the access point to the MBO-ART03 bracket.

Wall Installations

Wall installations are often easier to maintain and provide optimal coverage for your target area.

Install the Access Point on a Wall or Flat Surface with the KT-147407-02 Bracket

Before You Begin

Obtain the following items:

- The flat part of the KT-147407-02 bracket
- One (1)-axis tilt part of the KT-147407-02 bracket
- One(1) access point
- Six (6) M6 screws
- Four M6 headsize screws

About This Task

Use the following information when you install the access point on a wall or flat surface with the KT-147407-02 bracket.

Procedure

1. Attach the flat part of the KT-147407-02 bracket to the access point using two M6 screws.
2. Using the 1-axis tilt bracket as a template, mark and drill four holes on a wall or on a flat surface.
3. Attach the 1-axis tilt bracket to a wall or flat surface using four M6 headsize screws.
4. Align the 1-axis tilt bracket part inside the flat part of the KT-147407-02 bracket, and attach the flat bracket to the 1-axis tilt bracket using four M6 screws.
5. Tilt the access point to a desired angle and tighten the four M6 screws to a torque of 45 in-lbs.
6. The tilt bracket has +15 degrees to -15 degrees of tilt.

Install the Access Point on a Wall with the MBO-ART03 Bracket

Before You Begin

You need the following items:

- One (1) Access point
- One (1) MBO-ART03 articulating mounting bracket
- Six (6) M6 hex-head screws.
- Two (2) M6 hex-head screws for attaching the bracket and the access point.
- Four (4) M6 hex-head screws for attaching the bracket to the wall.
- Two (2) Long M6 hex screws and nuts to lock each axis.

You also need a torque wrench and tool that matches the nuts for the M6 hex screws.

About This Task

Use the MBO-ART03 bracket if you require a bracket with +/- 80-degree 2-axis tilt.



Note

When using the MBO-ART03 articulating mounting bracket, set the maximum downward tilt to less than 20 degrees to prevent water ingress.

Procedure

1. Mark and drill four holes on the wall.
2. It is recommended that you use one of the bracket ends as a template. You can remove the end from the bracket.
3. Adjust the arm length.
4. The arm is set to a 7.5-inch extension. To increase it to a 9-inch extension, you move 1 pivot and lock screw to the outside holes on 1 bracket. To increase the extension to 10.5-inches, move both pivot and lock screw pairs to the outside holes on each bracket.
5. Attach the bracket to the access point with the M6 hex-head screws.
6. Align the bracket mounting holes with the holes on the wall.
7. Attach the bracket to the wall with the M6 hex-head screws.
8. Insert the locking bolts into the bracket and arm locking hole.
9. Attach the nuts and torque to 45 inch-pounds.
10. Tighten the pivot screws and nuts to 60 inch-pounds.

Install the Access Point on a Wall Using ACC-MBO-KT-AX Adapter and MBO-ART03 Articulating Mounting Bracket

Before You Begin

The following hardware is required for outdoor access point wall installation using the -MBO adapter and MBO-ART03 articulating mounting bracket:

- One outdoor access point.
- One ACC-MBO-KT-AX adapter.
- Two M5 hex bolts.
- One MBO-ART03 articulating mounting bracket.
- Four M6 hex-head screws.

You also need a torque wrench, a drill and a carpenter's pencil or a pen.

About This Task

The ACC-MBO-KT-AX adapter is used with outdoor access points to add a tilt to the access point after installation. For wall installations, the -MBO adapter is used in combination with the KT-147407-02 bracket wall parts.



Note

When using the MBO-ART03 articulating mounting bracket, set the maximum downward tilt to less than 20 degrees to prevent water ingress.

Procedure

1. Attach the ACC-MBO-KT-AX adapter to the access point using the two M5 bolts.
2. Torque the M5 bolts to 25 in-lbs.
3. Using the MBO-ART03 articulating mounting bracket as a template, mark and drill two holes on the wall.
4. Attach the larger face plate end of the MBO-ART03 mounting bracket to the ACC-MBO-KT-AX adapter using two M6 hex-head screws.
5. Align the mounting holes on the ART03 bracket against the holes on the wall.
6. Attach the ART03 bracket to the wall using two M6 hex-head screws.

Install the Access Point Using KT-147407-02 Bracket Parts and KT-150173-01 Extension Arm

Before You Begin

Obtain the following items:

- The flat part of the KT-147407-02 bracket
- One (1)-axis tilt part of the KT-147407-02 bracket
- The KT-150173-01 extension arm
- One (1) access point

About This Task

The KT-150173-01 extension arm is used in combination with the wall and pole bracket parts of the KT-147407-02 bracket. Install your access point with an extension arm if a standoff distance — but no tilt— is required.

Procedure

1. Attach the flat part of the KT-147407-02 bracket to the access point using two M6 screws.
2. Using the KT-150173-01 extension arm as a template, mark and drill four hole centers on a flat surface.
3. The holes must be within the circular cuts in the end of the flange.
4. Place the flat part of the KT-147407-02 bracket inside the 1-axis tilt bracket, and attach the 1-axis tilt bracket to the flat bracket using four M6 screws.
5. Attach one end of the KT-150173-01 extension arm to the 1-axis tilt bracket using two hex-head M12 stainless-steel screws and two hex-head M12 stainless-steel nuts through the two large circular holes on the KT-150173- 01 extension arm.

6. Attach the KT-150173-01 extension arm, that now has the access point mounted on the other end, to a flat surface using four M6 size hex-head screws.
7. Use screw-in anchors with the four M6 hex-head screws when you mount the bracket on a wood surface and use concrete anchors for concrete surface.

Install the Access Point on a Flat Surface Using the AH-ACC-BKT-ASM Accessory

Before You Begin

The following hardware is required to install the access point to a flat surface:

- An access point.
- One (1) AH-ACC-BKT-ASM wall accessory, purchased separately.
- Four (4) shoulder M5 bolts.
- Four (4) M5 mount screws and screw-in anchors, provided by the installer.

About This Task

Install the access point on a vertical or horizontal flat surface using the AH-ACC-BKT-ASM accessory.



Note
If you are mounting the access point horizontally, ensure that the ports are facing down to reduce the chance of water entering the chassis

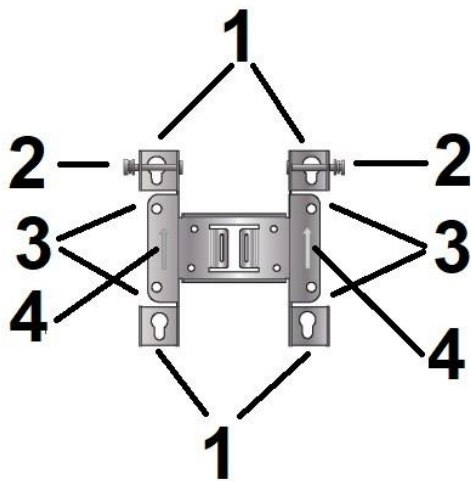


Figure 9: AH-ACC-BKT-ASM Accessory

Table 14: AH-ACC-BKT-ASM Components

Callout	Description
1.	Keyholes
2.	Locking screws

Table 14: AH-ACC-BKT-ASM Components (continued)

Callout	Description
3.	Wall mounting holes
4.	Printed arrows

Procedure

1. Using the ASM wall accessory as a template, mark and drill four mounting holes on a flat surface
The printed arrows on the accessory must be pointing up.
2. Attach the ASM accessory to the wall by using four M5 shoulder mounting screws.
Use screw-in anchors with the mounting screws on a wood surface, and concrete anchors on a concrete surface.
3. Insert the M5 shoulder mounting screws into the access point mounting holes.
4. Torque the M5 shoulder mounting screws to 25 in-lbs.
5. Remove the two locking screws on the accessory.
6. Insert the M5 bolt heads on the access point into the large end of the accessory keyholes and slide the access point down until the bolts rest in the narrow end of the keyholes.
7. Tighten the locking screws on the ASM accessory to secure the access point.

Pole Installations

Mount your AP on a pole if you need better coverage and minimal signal interference.

Install the Access Point on a Pole with the MBO-ART03 and KT-147407-02 Brackets

Before You Begin

The following hardware is required to install your access point to a pole with the MBO-ART03 and KT-147407-02 brackets:

- One (1) Access point.
- One (1) KT-147407-02 bracket.
- One (1) MBO-ART03 articulating mounting bracket.
- Two (2) M6 hex-head screws to attach the MBO-ART03 to the access point.
- Two (2) M6 screws with nuts and washers to attach KT-147407-02 to the MBO-ART03.
- Two (2) Long M6 Hex hex screws and nuts for providing an angular lock for each axis.
- Two (2) Cable clamps with a band of 0.5 in. (12.7 mm). Cable clamps must be purchased separately as they are not included.
- One (1) Torque wrench with sockets. One (1) Flat head screwdriver.

About This Task

You can install your access point to a pole if you do not want to drill into a wall. With a pole, the coverage area can be greater because a pole is often higher than a wall.

Procedure

1. Attach the KT-147407-02 to the MBO-ART03 with two M6 screws, nuts, and washers.
2. Attach both cable clamps to the KT-147407-02 bracket.
3. You open the cable clamp by inserting the head of the flat head screwdriver into the retaining screw and turning the screw counterclockwise. Then insert the non-clamp end into the KT-147407-02 through the holes.
4. Attach the two brackets to the pole.
5. Tighten the cable clamp screw around the pole by turning the screws clockwise with a flat head screwdriver.
6. Attach the access point to the MBO-ART03 with two M6 hex-head screws.
7. Adjust the two pivot points until you are satisfied.
8. Insert the locking bolts into the bracket and arm locking hole.
9. Attach the nuts and torque to 45 inch-pounds.
10. Tighten the pivot screws and nuts to 60 inch-pounds.
11. Attach the safety hanger strap as per the local code.
12. Adjust the LAN cable so the access point glands have a drip loop in each cable. The LAN cable must be located on the lower side of the AP.

Install the Access Point on a Pole Using KT-147407-02 Bracket Parts and KT-150173-01 Extension Arm

Before You Begin

The following hardware is required for pole installation using KT-147407-02 bracket parts and KT-150173-01 extension arm:

- All parts of the KT-147407-02 bracket KT-150173-01 extension arm
- Six (6) M6 screws
- Four (4) hex-head M12 stainless-steel screws
- Four (4) hex-head M12 stainless-steel nuts
- Two (2) 0.5" wide stainless-steel cable clamps
- One (1) access point

About This Task

You can install your access point to a pole if you do not want to drill into a wall. With a pole, the coverage area can be greater because a pole is often higher than a wall. Use the KT-147407-02 Bracket if you need a 15-degree tilt.

The combination of KT-147407-02 with KT-150173-01 allows for a 15-degree tilt with a 12 in. extension.

Procedure

1. Attach the flat part and the 1-axis tilt part of the KT-147407-02 bracket to the access point.

For instructions on how to attach the bracket parts, see "[Install the Access Point Using KT-147407-02 Bracket Parts and KT-150173-01 Extension Arm](#)"

2. Align the circular holes on one end of the KT-150173-01 extension arm against the large holes on the 1-axis tilt bracket.
3. Attach the KT-150173-01 extension arm to the 1-axis tilt bracket by using two hex-head M12 stainless-steel screws and two hex-head M12 stainless-steel nuts.
4. Attach the KT-147407-02 pole part to the other end of the KT-150173-01 extension arm using two M12 screws and M12 hex-nuts.

Install the Access Point on a Pole Using KT-147407-02 Bracket Parts

Before You Begin

The following hardware is required for pole installation using KT-147407-02 bracket parts:

- All parts of the KT-147407-02 bracket.
- Four (4) M6 screws.
- Two (2) hex-head M12 stainless-steel screws.
- Two (2) hex-head M12 stainless-steel nuts.
- Two (2) 0.5 in. wide stainless-steel cable clamps.
- One (1) access point.

About This Task

You can install your access point to a pole if you do not want to drill into a wall. With a pole, the coverage area can be greater because a pole is often higher than a wall. Use the KT-147407-02 Bracket if you need a 15-degree tilt.

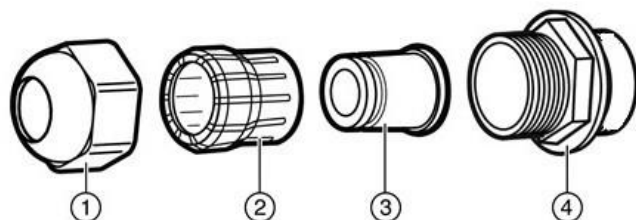
Procedure

1. Attach the KT-147407-02 flat part and 1-axis tilt part to the access point.
For instructions on how to attach the bracket parts, see "[Install the Access Point Using KT-147407-02 Bracket Parts and KT-150173-01 Extension Arm](#)".
2. Attach the KT-147407-02 pole part to the 1-axis tilt bracket using two M12 bolts through the large bracket holes on the 1-axis tilt bracket and the pole bracket.
3. Fasten the bolts using two M12 hex nuts.
4. Insert the stainless-steel cable clamp through the long slots on the pole bracket.
5. Position the cable clamps on the pole bracket around a pole and attach the pole bracket.
6. Insert the ends of the cable clamps around the pole and tighten the clamp screws to a torque of 11 in-lbs.

Connect the ETH1 or ETH0 cable

About This Task

The ETH1 or ETH0 cable is connected through the ETH1 or ETH0 gland port.

**Figure 10: Gland Components****Table 15: AP Glands**

Callout	Item
1.	Gland cap.
2.	Gland cage.
3.	Gland LAN cable gasket.
4.	Gland body - Do not remove the gland body. This is a factory sealed component; do not remove from housing.

Procedure

1. Attach the ground wire to the access point.
2. Remove the ETH0 port gland cap, plastic cage, and gasket.
3. Connect the ETH0 cable through the ETH0 gland port until it clicks into place. If there is a ETH1 connection, insert the cable through the ETH1 gland port until it locks into place.
4. Slide the plastic cage over the gland and into the gland body, and then secure it with the gland cap.
5. Torque the gland cap to 12-in lbs.

Connect the ETH1 or ETH0 Cable through the Service Panel Base

About This Task

The ETH1 or ETH0 cable is connected through the side or bottom holes on the service panel base.

The following hardware is required to attach the ETH1 or ETH0 cable through a hole on the service panel base:

- ETH1 or ETH0 cable
- One blank conduit cover to cover the front hole on the side of the service panel base
- One 3/4 in. or 1/2 in. conduit cover, depending on the circumference of the ETH1 or ETH0 conduit
- Service panel base
- Service panel top
- ACC-CAT6-LAN-GSKT

- RJ-45 Plugs
- Four flat head long M4 screws to hold the service panel to the access point

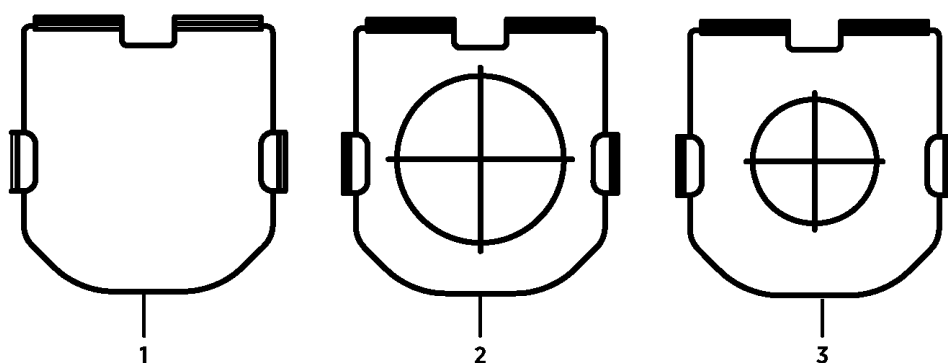


Figure 11: Metal conduit covers

Callout	Description
1	Blank conduit cover to cover the front hole on the side of the service panel base
2	$\frac{3}{4}$ in. conduit cover
3	$\frac{1}{2}$ in. conduit cover

Procedure

1. Using the blank conduit cover, cover the front hole of the service panel base
2. Attach either the $\frac{1}{2}$ in. conduit cover or the $\frac{3}{4}$ in. conduit cover to the rear hole of the service panel base.
3. Bring in the ETH1 or ETH0 cable, and the ground wire through the rear side hole of the service panel base.
4. Loosely align the service panel base next to the metal sloping bracket, thereby leaving enough space to attach the ETH1 or ETH0 cable to the access point.
5. Attach the ground wire to the access point.
6. Remove the gland caps, plastic cage, and the gasket from the ETH0 port.
Put the removed parts onto the LAN cable to be attached to the access point later.

7. Connect the ETH0 LAN cable through the ETH0 gland port until it clicks into place in the GE1 port.

If there is a ETH1 connection, insert the cable through the ETH1 gland until it locks into place in to the GE2 port.

8. Torque the gland cap to 12-in lbs.
9. Fold and arrange the ETH0 cable into the gap of the metal sloping bracket and the service panel base.

The ETH0 cable must not be bent sharply and must have 1 in. bend radius.

Ground the Access Point

About This Task

Ground the outdoor access point for outdoor installations. A ground terminal is provided for lightning protection. The ground connector on the access point is not a protective earth ground. To add ground connection to the access point: Attach the ring terminal to the ground wire. Insert the ring terminal on the ground screw. Thread the ground screw into the access point hole below the ground symbol.

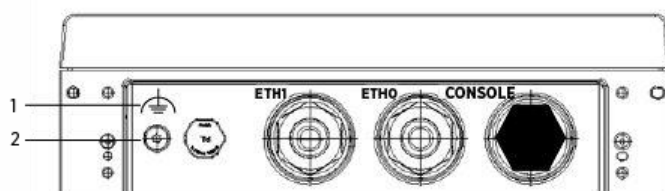


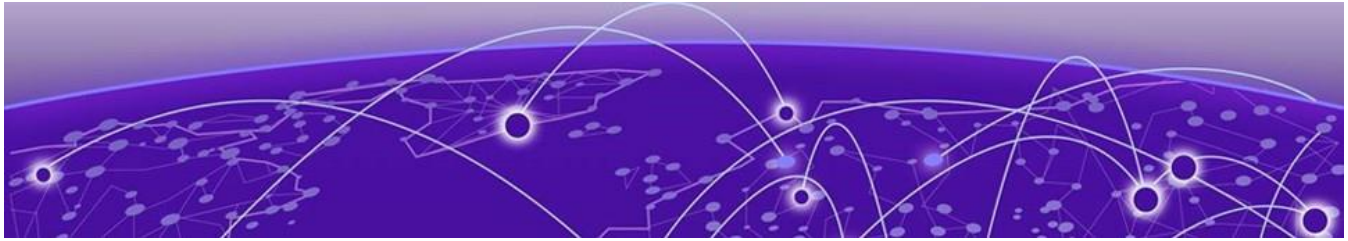
Figure 12: Grounding Components

Table 16: Ground your AP

Callout	Description
1	Ground symbol.
2	Ground screw hole.

Procedure

1. Attach the ring terminal to the ground wire.
2. Insert the ring terminal on the ground screw.
3. Thread the ground screw into the access point hole below the ground symbol.
4. Tighten the ground screw to 12 in-lbs.



Regulatory and Compliance

[Professional Installation Instruction](#) on page 33
[Safety Guidelines](#) on page 34
[CE Marking and European Area \(EEA\)](#) on page 35
[FCC Notice \(Part 15 - Class B\)](#) on page 35
[FCC Radiation Exposure Statement](#) on page 36
[Industry Canada Notice](#) on page 36
[Brazil Agência Nacional De Telecomunicações \(Anatel\) Statement](#) on page 38
[Israel Regulatory Statement](#) on page 38
[Mexico Compliance Statement](#) on page 38
[Thailand Regulatory Statement](#) on page 38
[Taiwan Regulatory Statement](#) on page 39
[United Kingdom \(UK\) and European Union \(EU\) Radiation Warning Statement](#) on page 39
[Japan \(VCCI\) - Voluntary Control Council for Interference Class A ITE](#) on page 39
[Extreme Networks EU Importer Address](#) on page 40
[Extreme Networks UK Address](#) on page 40

The following sections outline the regulatory and compliance information for your AP.

Professional Installation Instruction

Installation personnel

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 20 cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

Installation procedure

Refer to the installation instructions for details.



Warning

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 20 cm entre l'antenne emettrice et les personnes.

Antenn externe

Utiliser uniuquement 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.

Safety Guidelines

The following safety guidelines are intended to protect your personal safety and prevent damage to the equipment.

**Important**

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 outdoor electrical equipment in accordance with national codes.

CE Marking and European Area (EEA)

**Warning**

This is a class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

FCC Notice (Part 15 - Class B)

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 5925-6425 MHz and 6525-6875 MHz transmitter operation in Standard power access point mode:

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.

FCC Radiation Exposure Statement

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 Part15C, Section 247 and 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 device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

This device was tested with a separation distance of **20 cm**. Always keep the device away from your body to ensure exposure levels remain at or below the tested levels.

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

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.

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.

**Warning**

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.

【法文】

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure.

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 **20cm** between the radiator & your body.

【法文】 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 **20cm** de distance entre la source de rayonnement et votre corps

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

- Devices shall not be used for control of or communications with unmanned aircraft systems.
- Devices shall not be used on 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 metres (10,000 feet).

【法文】

- Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.
- Les dispositifs ne doivent pas être utilisés sur les plateformes de forage pétrolier.
- Les dispositifs ne doivent pas être utilisés dans les aéronefs, à l'exception des points d'accès intérieurs de faible puissance, des dispositifs subordonnés intérieurs, des dispositifs clients de faible puissance et des dispositifs de très faible puissance fonctionnant dans la bande de 5 925 à 6 425 MHz, qui peuvent être utilisés dans les gros aéronefs tel qu'il est défini dans le Règlement de l'aviation canadien, et ce, lorsqu'ils volent

à une altitude supérieure à 3 048 mètres (10 000 pieds).

- Devices shall not be used on automobiles.
- Devices shall not be used on trains.
- Devices shall not be used on maritime vessels

【法文】

- Les dispositifs ne doivent pas être utilisés dans les automobiles.
- Les dispositifs ne doivent pas être utilisés dans les trains.
- Les dispositifs ne doivent pas être utilisés sur les navires maritimes.

- **Standard-power access points**

- 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.
- 【法文】 La hauteur de l'antenne doit être déterminée par l'installateur ou l'opérateur du point d'accès de puissance normale ou du dispositif client fixe, ou par des dispositifs automatiques. Cette information doit être enregistrée dans le dispositif. La fourniture d'information précise sur le dispositif est obligatoire.
- Information for antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 4.5.4 (c) shall be clearly indicated.
- 【法文】 le ou les types d'antennes, le ou les modèles d'antennes et le ou les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la section 4.5.4 c. s'appliquant au masque de p.i.r.e. doivent être clairement indiqués.

Brazil Agência Nacional De Telecomunicações (Anatel) Statement

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).

Israel Regulatory Statement

מספר אישור התאמה מטעם משרד התקשורת: 51-95969

חל איסור לבצע פעולות במכשיר שיש בהן כדי לשנות את תכונותיו האלחוטיות של המכשיר, ובכלל זה שינויי תוכנה, החלפת אנטנה מקורית או הוספת אפשרות לחיבור לאנטנה חיצונית, בלא קבלת אישור משרד התקשורת, בשל החשש להפרעות אלחוטיות.

חל איסור על הפעלת המכשיר מחוץ למבנה, בשל חשש להפרעות אלחוטיות.

Mexico Compliance Statement

Details about compliance conditions for device use in Mexico.

La operación de este equipo está 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 operación no deseada.

The operation of this equipment is subject to the following two conditions:

1. it is possible that this equipment or device does not cause disruptive interference and
2. this equipment or device must accept any interference, including interference that may cause undesired operation.

Thailand Regulatory Statement

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช.

Taiwan Regulatory Statement

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。

本器材須經專業工程人員安裝及設定，始得設置使用，且不得直接販售給一般消費者

United Kingdom (UK) and European Union (EU) Radiation Warning Statement

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.



Warning

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.

	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)

AP4020 EU	AP4020 UK
2412-2472MHz: <20 dBm	2412-2472MHz: <20 dBm
2402-2480MHz (BT): <10 dBm	2402-2480MHz (BT): <10 dBm
5180-5240MHz: <23 dBm	5180-5240MHz: <23 dBm
5260-5320MHz: <23 dBm	5260-5320MHz: <23 dBm
5500-5700MHz: <30 dBm	5500-5700MHz: <30 dBm
5745-5825MHz: < 13.98 dBm	5745-5825MHz: <20 dBm
5955-6415MHz: <23 dBm	5925-6425MHz: < 24 dBm

Japan (VCCI) - Voluntary Control Council for Interference Class A ITE

This is a class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

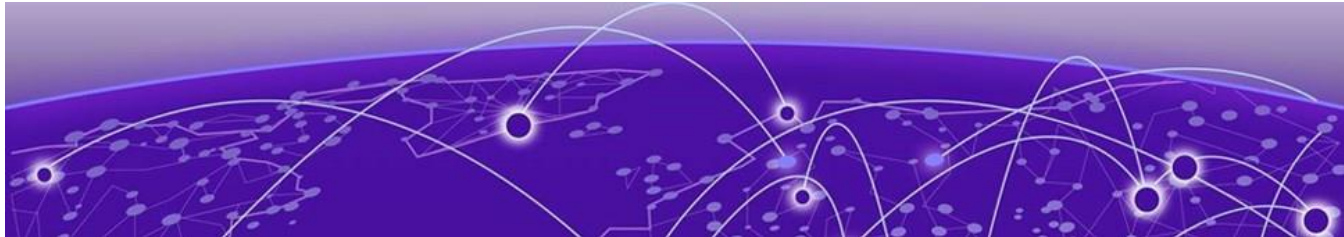
この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Extreme Networks EU Importer Address

Extreme Networks, Ireland Ops Ltd.
Rineanna House Shannon Industrial Estate
Shannon, V14CA36 Ireland

Extreme Networks UK Address

Extreme Networks, UK Ltd.
250 Longwater Avenue Green Park
1st Floor
Reading, UK



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