AP4060 and AP4060X Installation Guide

Setup, Maintenance, and Best Practices

Table of Contents

Abstract

This installation guide for the ExtremeWireless™ AP4060 and AP4060X access points version 9039136-00 Rev AA (November 2025) provides mounting procedures for weatherized Wi-Fi 7 quad-radio access points designed for high-density environments. The AP4060 features internal omni-directional antennas while the AP4060X supports external N-type antennas, both operating across 2.4 GHz, 5 GHz, and 6 GHz bands in Mode 1 tri-band or Mode 2 dual 5 GHz configuration. Hardware includes quad-radio design with three 2×2:2 data radios, dedicated sensor, dual IoT radios, GPS, and Bluetooth Low Energy, supporting 16 SSIDs and 512 users per radio. Key specifications include two multi-rate Ethernet ports with PoE support, micro-USB console port, operating temperature -40°C to +60°C, 165 mph wind rating, and dimensions 260mm × 260mm × 74mm. Power delivery uses PoE 802.3at with 21W typical draw. Installation covers three mounting options: AH-ACC-BKT-ASM bracket for flat walls, KT-147407-02 bracket with ±15-degree tilt and optional 12-inch extension for wall or pole mounting, and MBO-ART03 articulating bracket with ±80-degree two-axis tilt and variable extension for wall, pole, or Unistrut installations. Pole mounting uses AH-ACC-STRP-MRN hose clamps for 3-7 inch poles with cable glands facing downward and mandatory 3-inch drip loops for weatherproofing. Status LED indicators display solid white for established connections, solid amber for boot mode, and fast-blinking amber for firmware updates. Grounding requires ring terminal torqued to 12 in-lbs for lightning protection with optional security cable. Regulatory compliance includes FCC Part 15 Class B with indoor restrictions for specific frequency ranges, Industry Canada IC certification with minimum 27cm or 34cm MPE separation distances, CE marking requiring 20cm minimum installation distance, and compliance with EU Directives 2014/53/EU, 2009/125/EC, and 2012/19/EU.
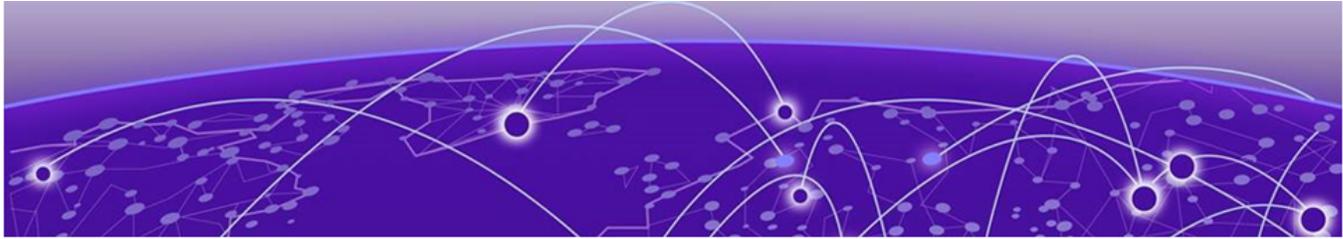
Preface

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, the product is referred to as *the switch*.

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 *enter* and *type*	When you see the word *enter* 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 *type*.
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**
Words in italicized type	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.
italic text	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, `member[member...]`.
\	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

Open Source Declarations

Some software files have been licensed under certain open source licenses. Information is available on the Open Source Declaration page.

Training

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 Product-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.
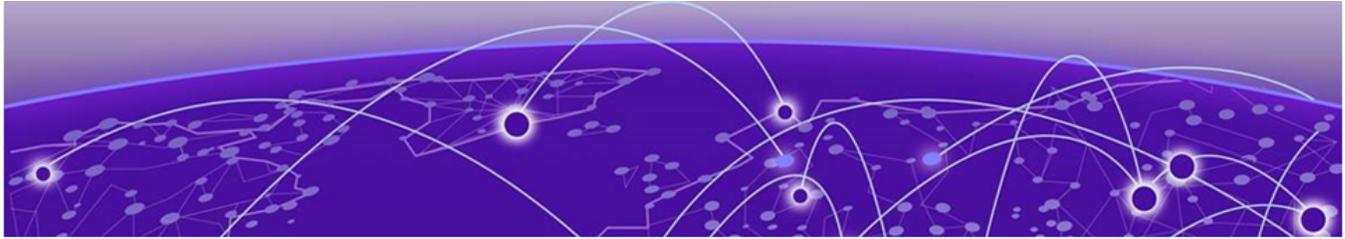
Overview

The AP4060 and AP4060X are Wi-Fi 7 universal access points. The AP4060 has an internal Omni antenna and the AP4060X supports an external antenna. Both APs are designed for the high density environments where a large number of people will access your network such as schools, warehouses, health care facilities, and stadiums. Both APs are *weatherized AP*s and are designed for harsh conditions with an extended temperature range of -40°C to +60°C (-40°F to 140°F).

The AP4060 and AP4060X can be installed on either a 15 or 80 variable degree tilt:

- 15 Degree Tilt: KT-147407-02
- 80 Degree tilt with variable extension: MBO-ART03
- 12 in. Extension: KT-150173-01

> **Note**
>
> For all the external antennas except dipole antenna AIO-TS06360-N, there are two common orientations:
>
> 1.) Wall/pole mount facing horizontally or tilted towards the ground: This orientation allows you to use higher RF power.
>
> 2.) Any other orientation: This orientation uses lower RF power than pole mount.
>
> For more information, see Antenna Configuration for the Horizon Rule on page 43.

The radio is capable of operating across the following frequency bands, depending upon your country of operation:

- 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 AP4060 and AP4060X 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

Note

The AP4060 and AP4060X

supports Standard Power operation on the 6 GHz band in the United States and Canada, using Automated Frequency Coordination (AFC). Certification requirements vary by region.

New in This Guide

The following sections show the recent documentation revisions for this guide. Use this information to locate the latest updates.

February 2026

Section	Description
Antenna Gain	Added antenna gain information.
Purchase Information	Updated for new SKUs
European Waste Electrical and Electronic Equipment (WEEE) Notice	Updated European Waste Electrical and Electronic Equipment (WEEE) Notice for new information.
Troubleshoot	Added troubleshoot section.
Document Title	Document was renamed to *AP4060 and AP4060X Installation Guide*.

Purchase Information

Use the information below when you order your AP4060.

Table 4: AP4060 Purchase Information

Part number	Description
AP4060-WW	Weatherized 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	Weatherized Quad Radio Wi-Fi 7 (2x2:2): 2.4GHz, 5GHz, 6GHz and dedicated sensor, Multi-Rate Port, internal antennas. Domain: World SKU TAA Compliant
AP4060-IL	Weatherized Quad Radio Wi-Fi 7 (2x2:2): 2.4GHz, 5GHz, 6GHz and dedicated sensor, Multi-Rate Port, internal antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). Domain: Israel

Use the information below when you order your AP4060X.

Table 5: AP4060X Purchase Information

Part number	Description
AP4060X-WW	Weatherized Quad Radio Wi-Fi 7 (2x2:2): 2.4GHz, 5GHz, 6GHz and dedicated sensor, Multi-Rate, External antennas, Domain: World SKU
AP4060X-WW-TAA	Weatherized Quad Radio Wi-Fi 7 (2x2:2): 2.4GHz, 5GHz, 6GHz and dedicated sensor, Multi-Rate, External antennas, Domain: World SKU TAA Compliant
AP4060X-EG	Weatherized Quad Radio Wi-Fi 7 (2x2:2): 2.4GHz, 5GHz, 6GHz and dedicated sensor, Multi-Rate Port, external antennas. Domain: Egypt

Technical Specifications

The AP4060 and AP4060X feature 802.11be, also known as Extremely High Throughput (EHT).

For more information about the technical specifications, see the AP4060 and AP4060X Data Sheets here.

Physical Specifications

AP4060 Physical Specifications

The AP4060 has the following dimensions and weight:

- Dimensions: 257 mm x 260 mm x 74 mm (10.1 in. x 10.2 in. x 2.9 in.)
- Weight: lbs 5.1 lbs (2.3 kg)

AP4060X Physical Specifications

The AP4060X has the following dimensions and weight:
- Dimensions: 10.2 in. x 10.2 in. x 2.9 in. (260 mm x 260 mm x 74 mm)
- Weight: 5.7 lbs (2.59 kg)

Environmental Specifications

AP4060 Environmental Specifications

The following list shows the environmental operating conditions for the AP4060:
- Operating: -40°C to 60°C (-40°F to 140°F) with solar load
- Storage/Transportation: -40°C to 70°C (-40°F to 158°F)
- Humidity: 0% to 95% (non-condensing)
- Wind Rating: 265 Kilometers per Hour (165 MpH) sustained winds
- Operational Shock: IEC 60068-2-27, IEC 60721-3-4, Class 4M3, ASTM D3332-99
- Operation Vibration: IEC 60068-2-6, IEC 60068-2-64, IEC 60721-3-4, Class 4M3, ASTM D3580-95, ETSI 300 019-2-3 v2.2.2 Section3.1 Class 3.1 table 2

AP4060X Environmental Specifications

The following list shows the environmental operating conditions for the AP4060X:
- Operating: -40°C to 60°C (-40°F to 140°F)
- Storage/Transportation: -40°C to 70°C (-40°F to 158°F)
- Humidity: 0% to 95% (non-condensing)
- Wind Rating: 265 Kilometers per Hour (165 MpH) sustained winds
- Operational Shock: IEC 60068-2-27, IEC 60721-3-4, Class 4M3, ASTM D3332-99
- Operation Vibration: IEC 60068-2-6, IEC 60068-2-64, IEC 60721-3-4, Class 4M3, ASTM D3580-95, ETSI 300 019-2-3 v2.2.2 Section3.1 Class 3.1 table 2

Antenna Specifications

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

AP4060 Antenna Specifications

The AP4060 supports the following antennas:

Internal
- Two dual-band 2.4 GHz (4dbi) and 5 GHz (6dBi) antennas
- Two dual-band 5 GHz (6dBi) and 6 GHz (6dBi) antennas
- One tri-band sensor (2.4 GHz / 5 GHz / 6 GHz) antenna
- Three BLE/IoT sensor antennas
- One GPS antenna

External
The AP4060 has no external antennas.

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

AP4060X Antenna Specifications

The AP4060X supports the following antennas:

Internal

- Two BLE/IoT sensor antennas
- One GPS antenna
- One tri-band sensor (2.4 GHz / 5 GHz / 6 GHz) antenna

External

- Two dual-band 2.4 GHz and 5 GHz antennas
- Two dual-band 5 GHz and 6 GHz antennas
- One BLE/IoT sensor antenna

AP4060 Radiation Patterns

Antenna radiation patterns are an important tool when you install your access point. Use this information to optimize your coverage, to reduce interference from other devices, and to ensure you comply with government regulations.

2.4 GHz Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060 internal antenna.
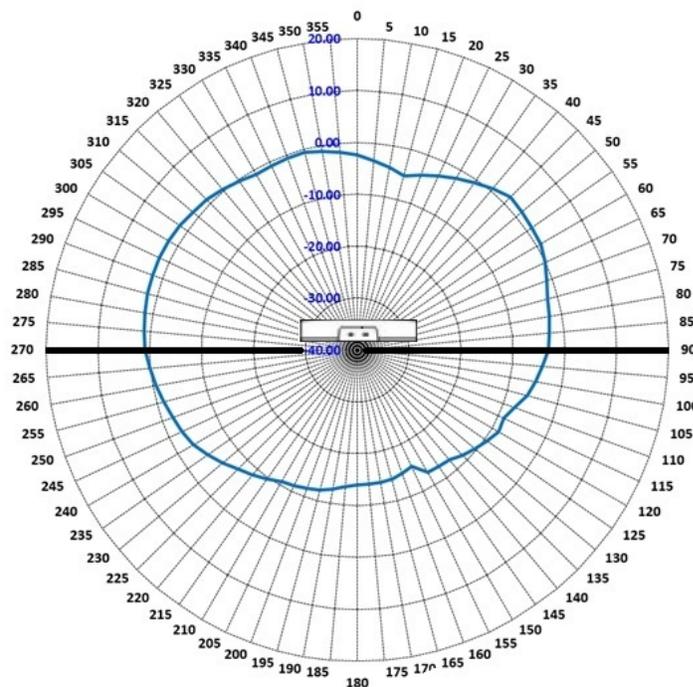
Figure 1: AP4060 2.4 GHz - Vertical Radiation Pattern
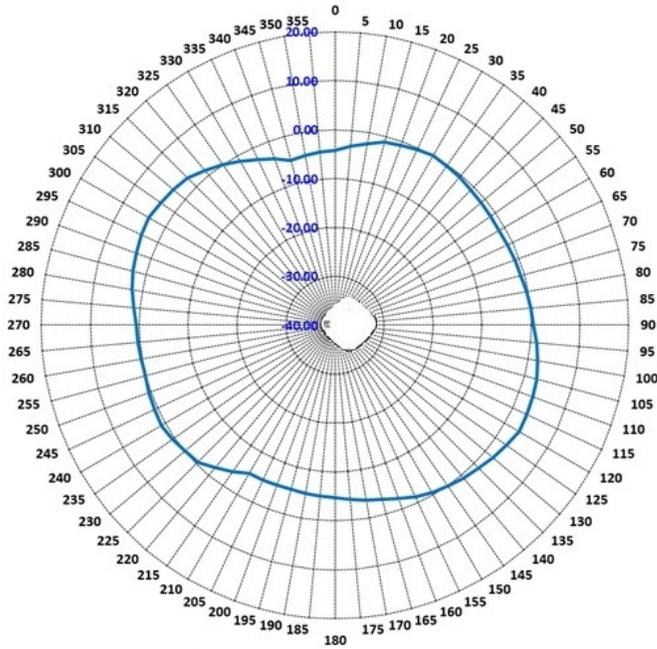
Figure 2: AP4060 2.4GHz - Horizontal Radiation Pattern

5 GHz Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060 5 GHz internal antenna.
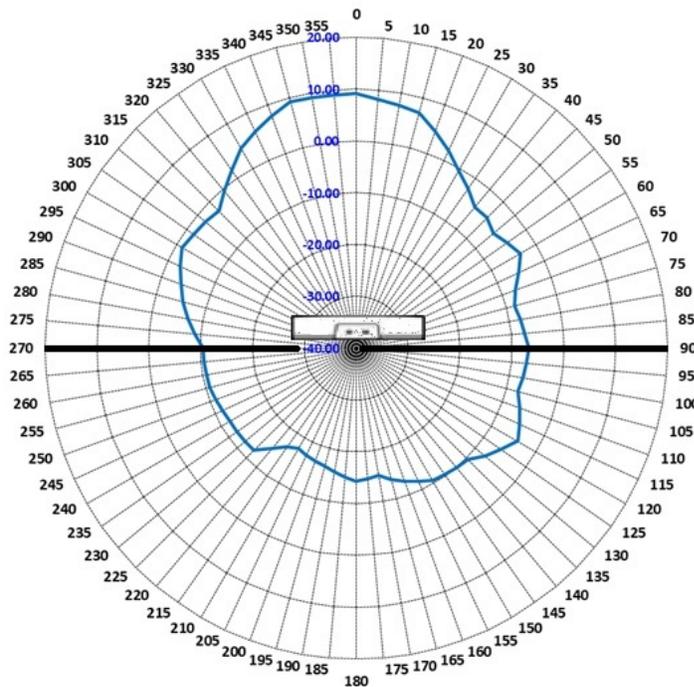
Figure 3: AP4060 5 GHz - Low Vertical Radiation Pattern
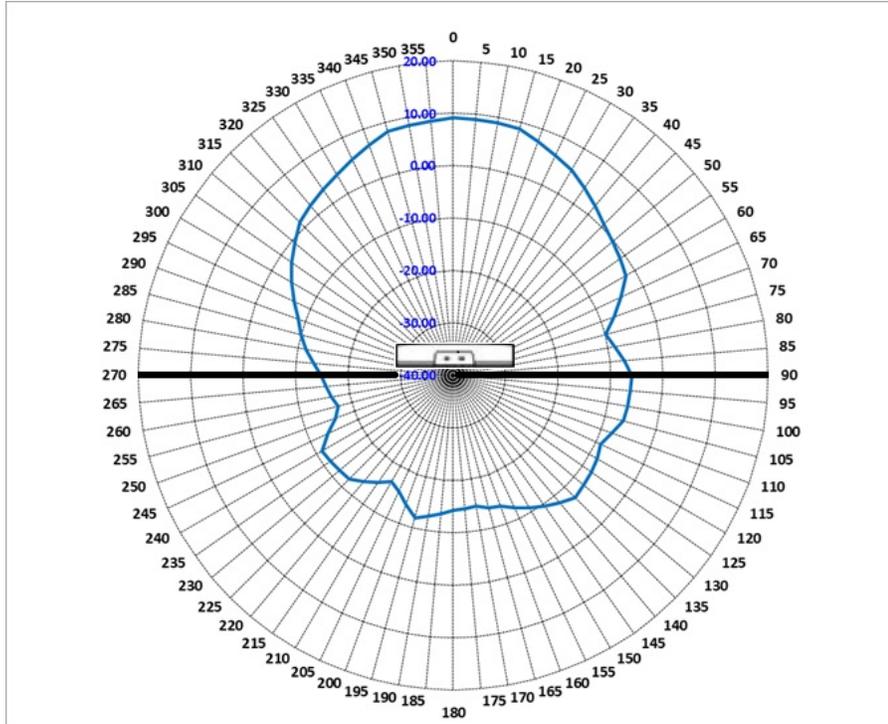
Figure 4: AP4060 5 GHz - Low Horizontal Radiation Pattern
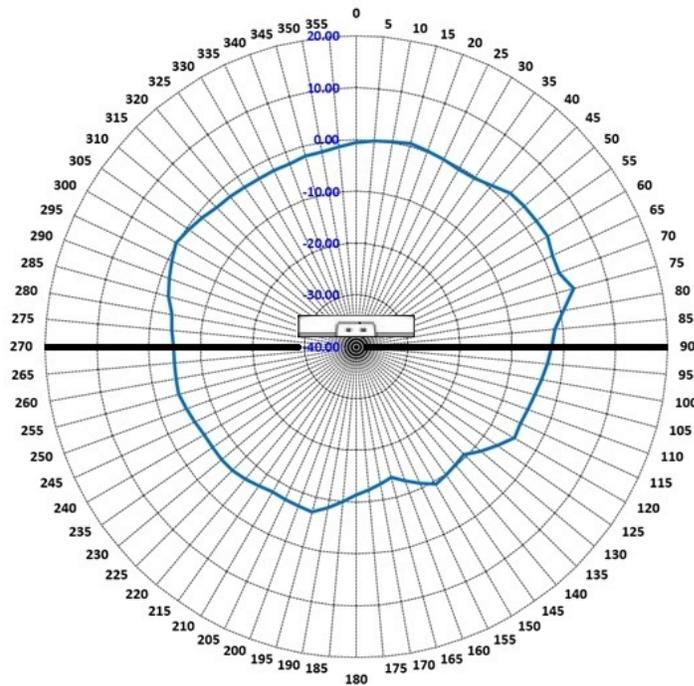
Figure 5: AP4060 5 GHz -Vertical Radiation Pattern
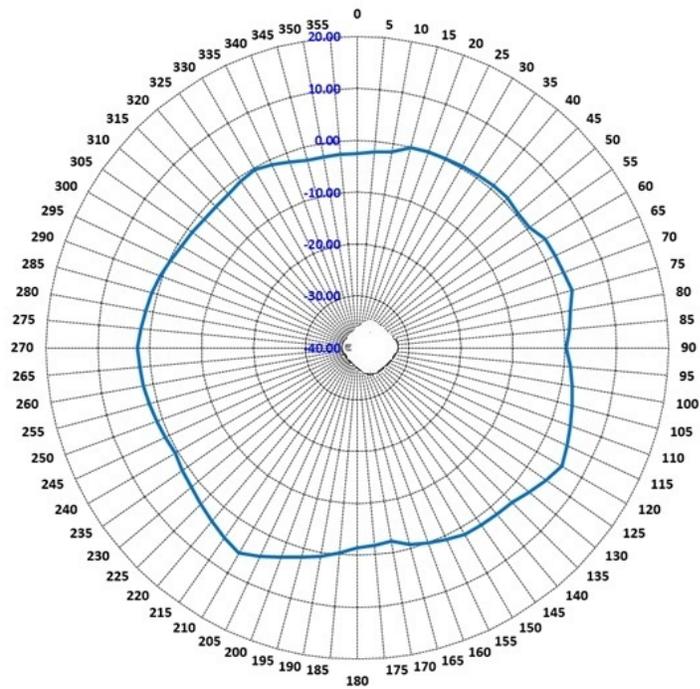
Figure 6: AP4060 5 GHz - Horizontal Radiation Pattern

6 GHz Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060 6 GHz internal antenna.
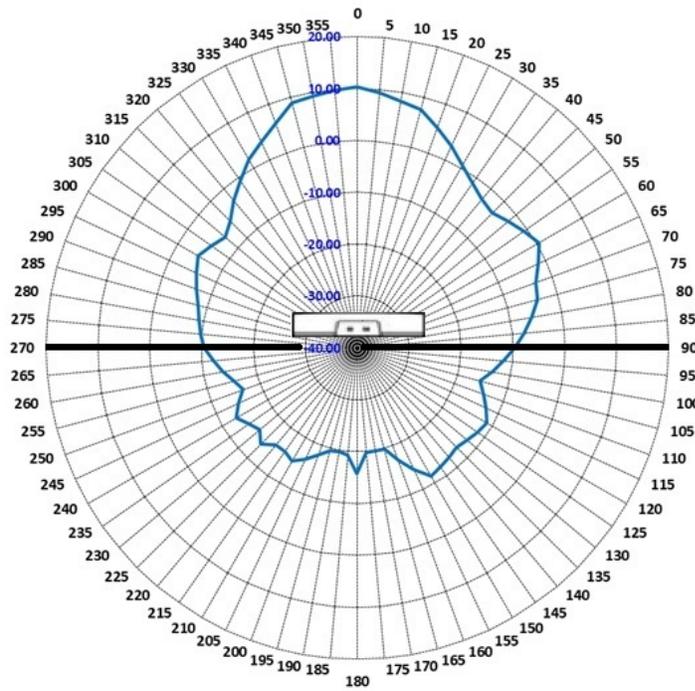
Figure 7: 6 GHz - Vertical Radiation Pattern
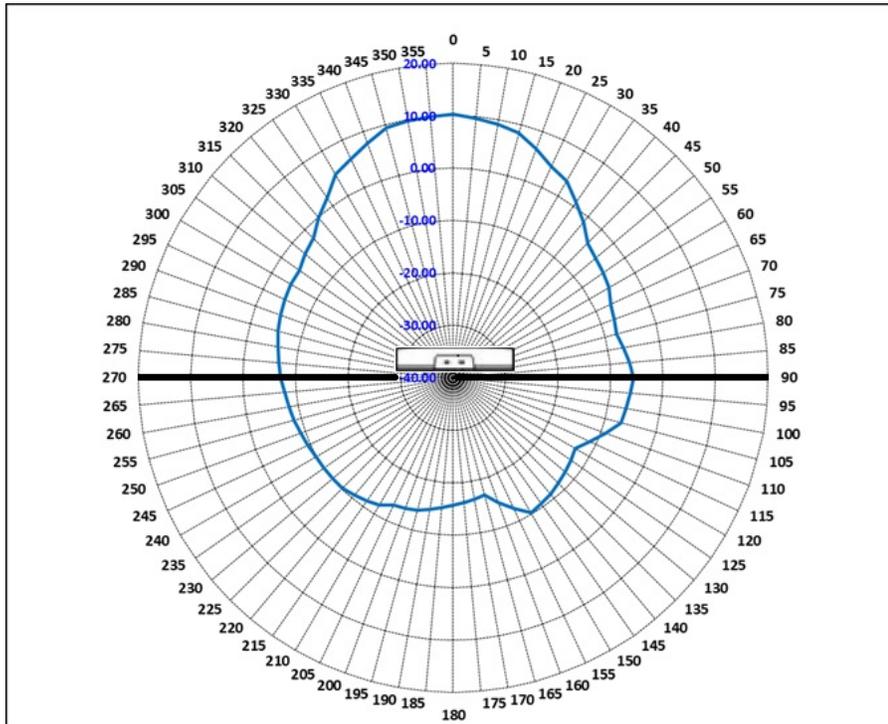
Figure 8: 6 GHz - Horizontal Radiation Pattern

BLE Radio 1 Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060 BLE Radio 1.
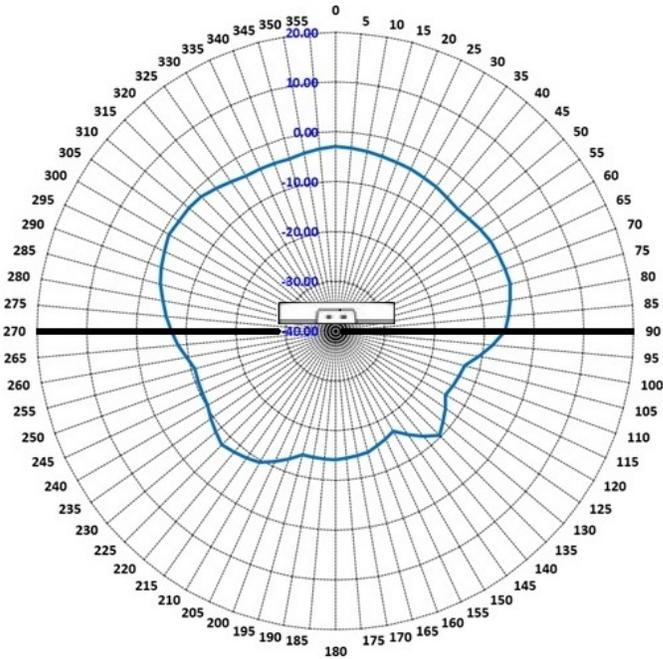
Figure 9: AP4060 BLE Radio 1 - Vertical Radiation Pattern
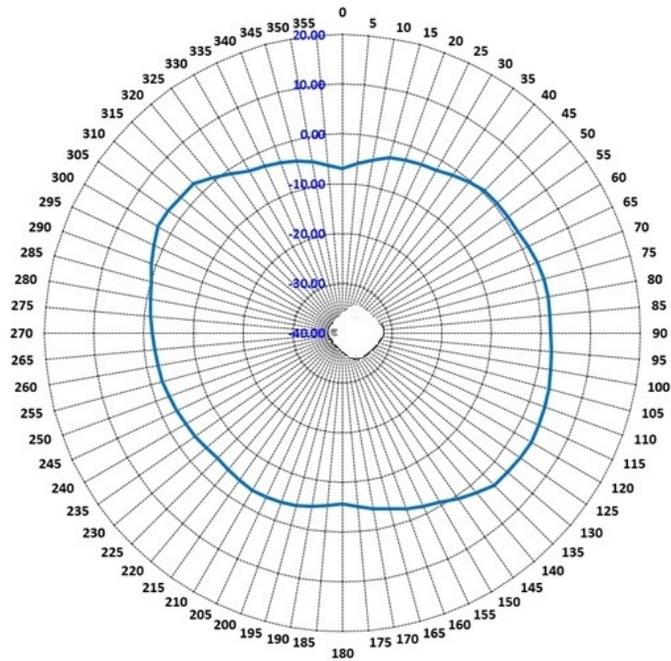
Figure 10: AP4060 BLE Radio 1 - Horizontal Radiation Pattern

BLE Radio 2 Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060 BLE Radio 2.
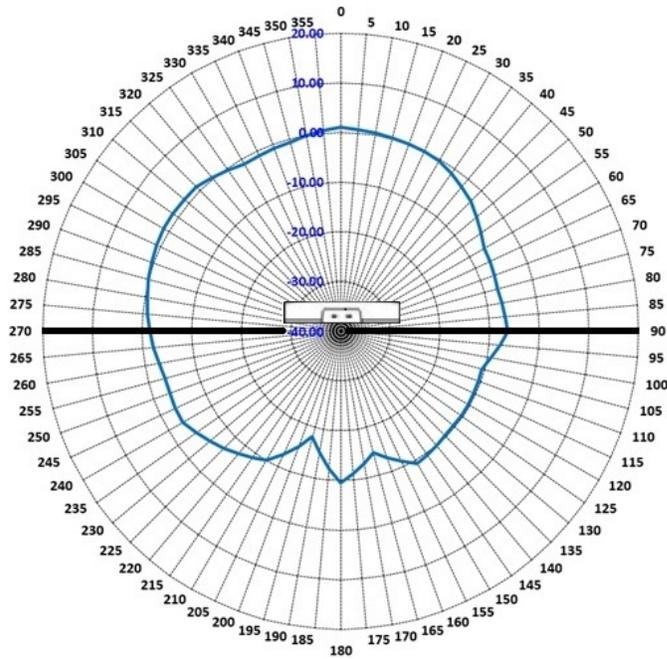
Figure 11: AP4060 BLE Radio 2 - Vertical Radiation Pattern
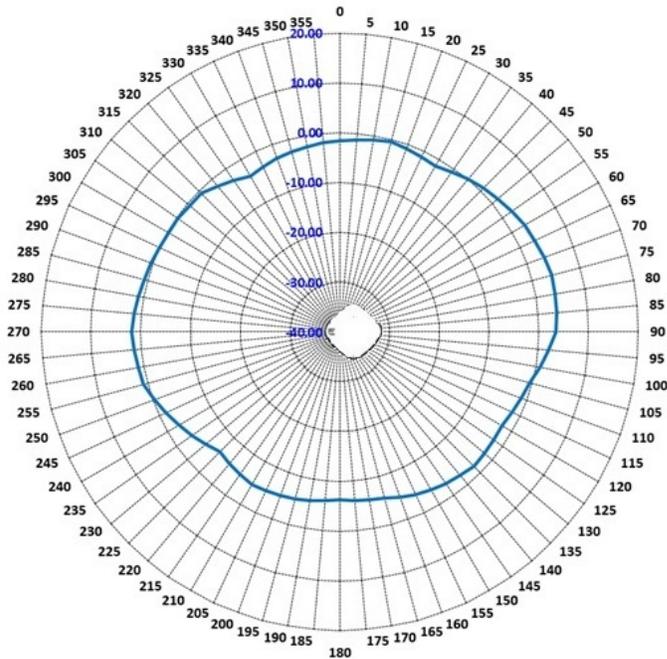
Figure 12: AP4060 BLE Radio 2 - Horizontal Radiation Pattern

BLE Radio 3 Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060 BLE Radio 3.
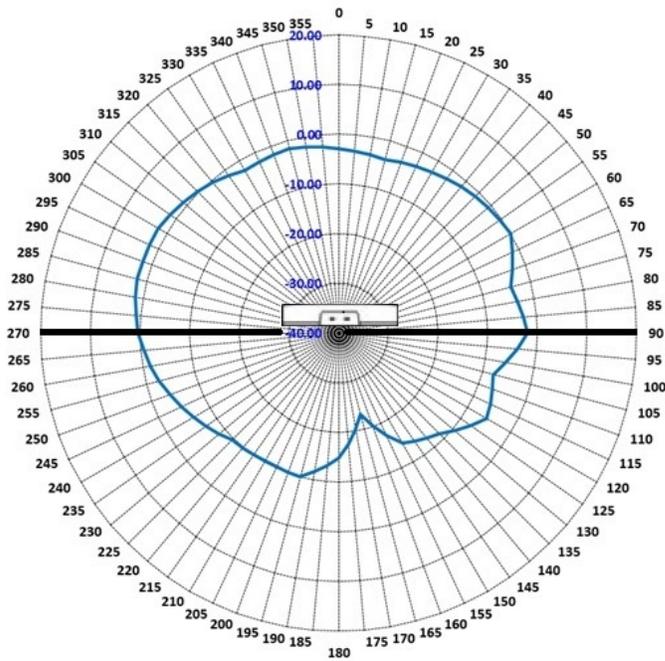
Figure 13: AP4060 BLE Radio 3 - Vertical Radiation Pattern
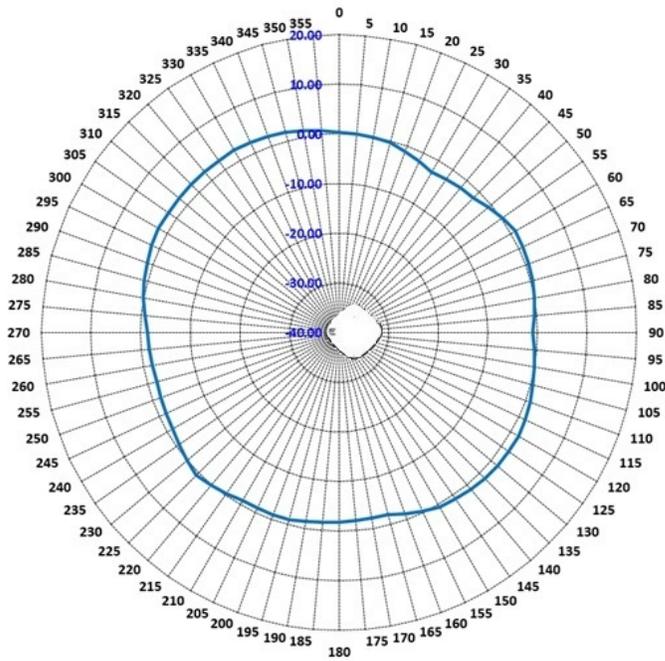
Figure 14: AP4060 BLE Radio 3 - Horizontal Radiation Pattern

Sensor Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060 sensor.
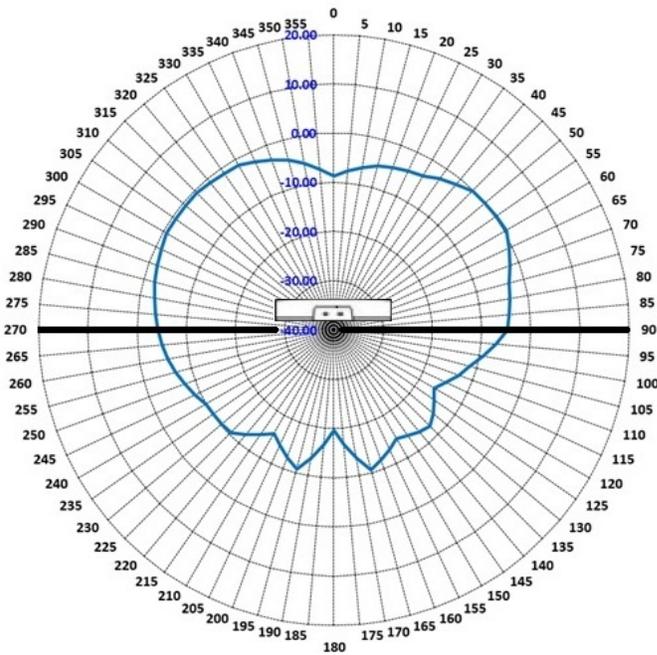
Figure 15: AP4060 2.4 GHz Sensor - Vertical Radiation Pattern
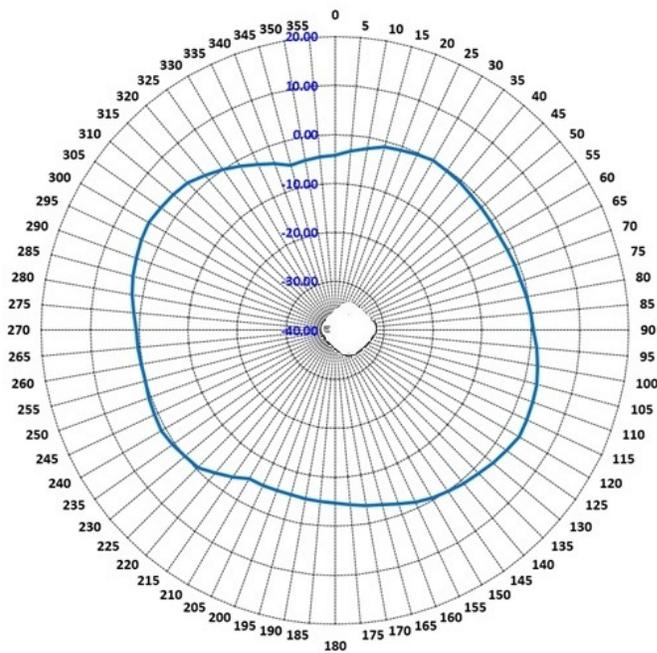
Figure 16: AP4060 2.4 GHz Sensor - Horizontal Radiation Pattern
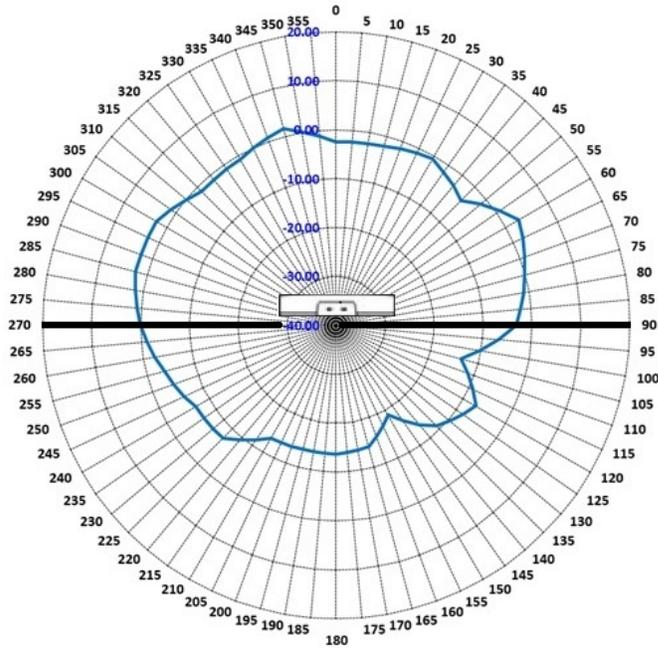
Figure 17: AP4060 5 GHz Sensor - Vertical Radiation Pattern
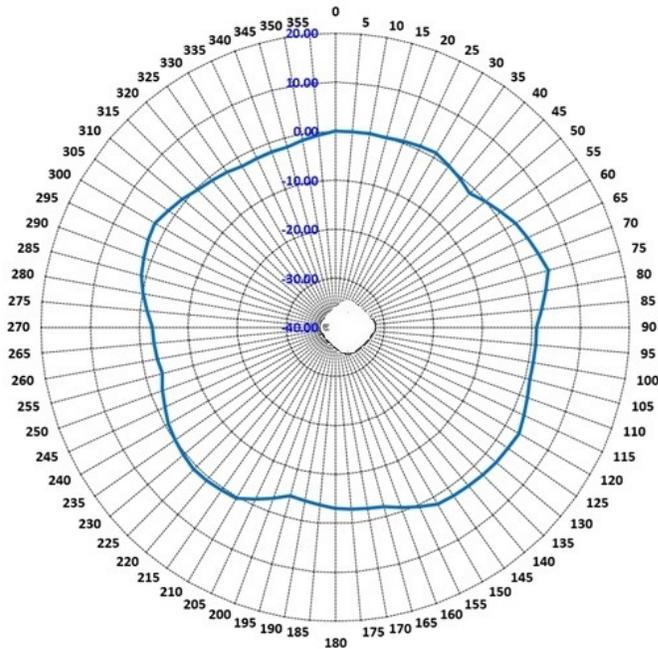
Figure 18: AP4060 5 GHz Sensor - Horizontal Radiation Pattern
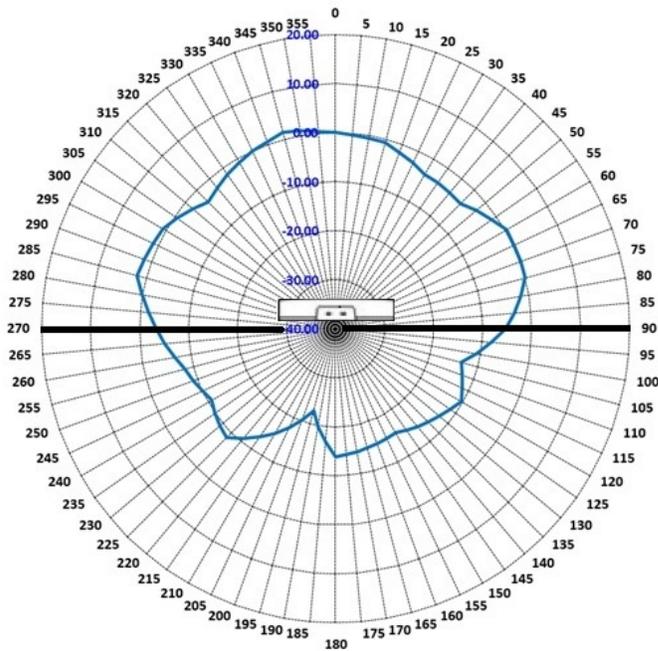
Figure 19: AP4060 6 GHz Sensor - Vertical Radiation Pattern
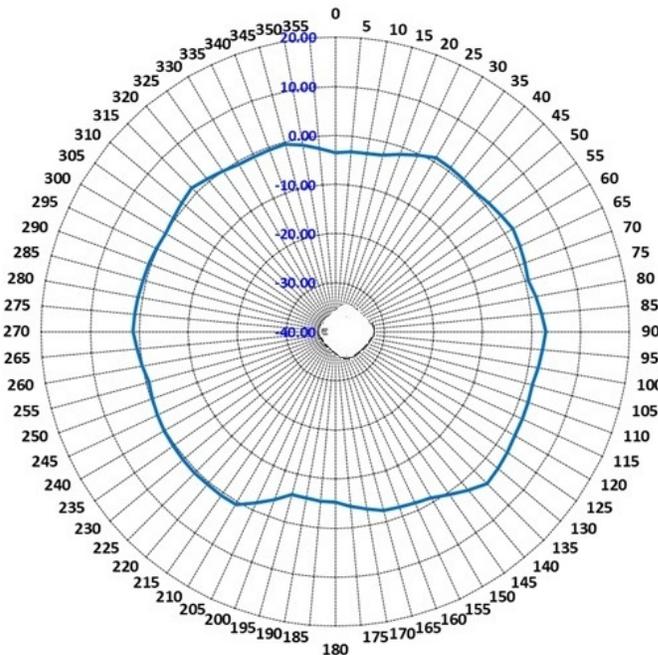
Figure 20: AP4060 6 GHz Sensor - Horizontal Radiation Pattern

AP4060X Radiation Patterns

Antenna radiation patterns are an important tool when you install your access point. Use this information to optimize your coverage, to reduce interference from other devices, and to ensure you comply with government regulations.

BLE Radio 1 Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060X BLE radio 1.
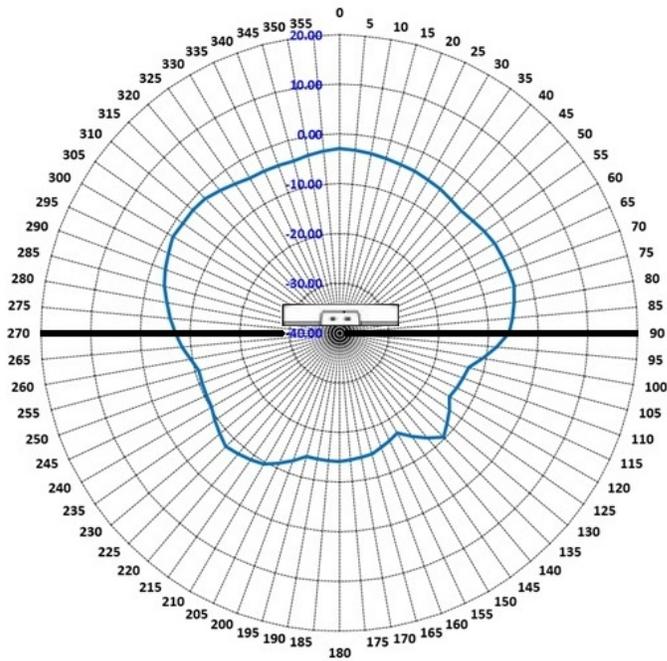
Figure 21: AP4060X BLE Radio 1 - Vertical Radiation Pattern

BLE Radio 2 Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060X BLE Radio 2.
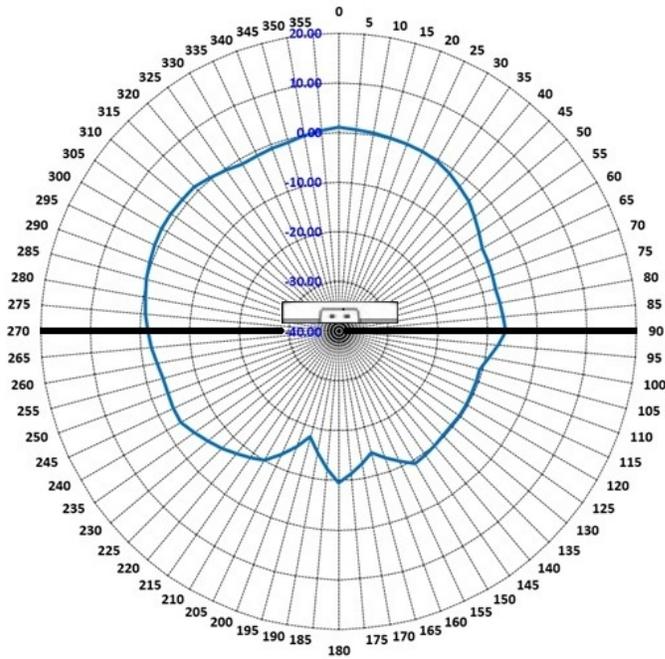
Figure 22: AP4060X BLE Radio 2 - Vertical Radiation Pattern
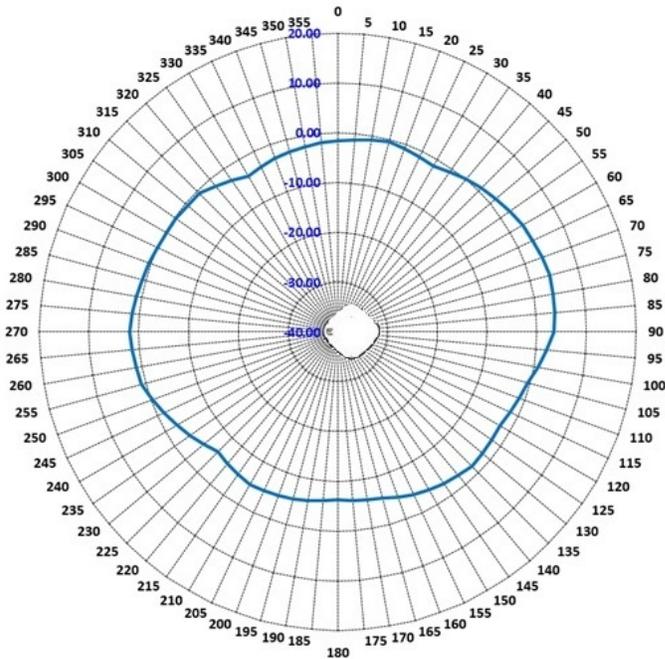
Figure 23: AP4060X BLE Radio 2 - Horizontal Radiation Pattern

BLE Radio 3 Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060X BLE Radio 3.
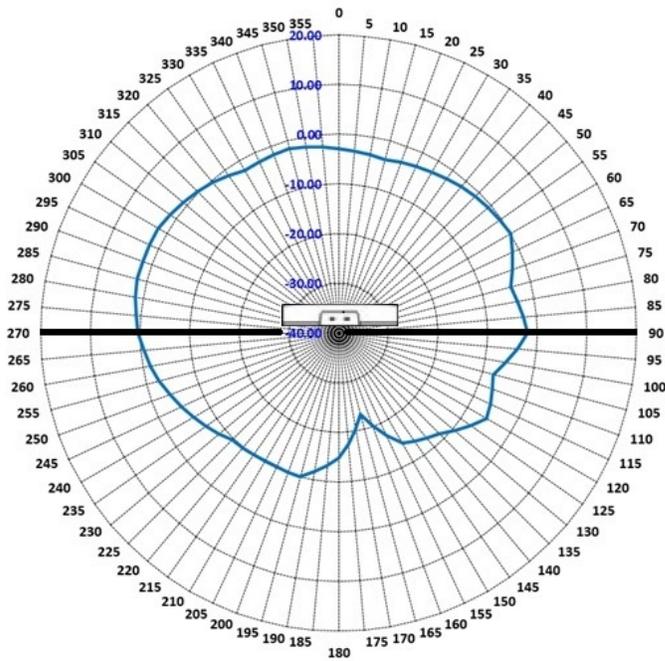
Figure 24: AP4060X BLE Radio 3 - Vertical Radiation Pattern
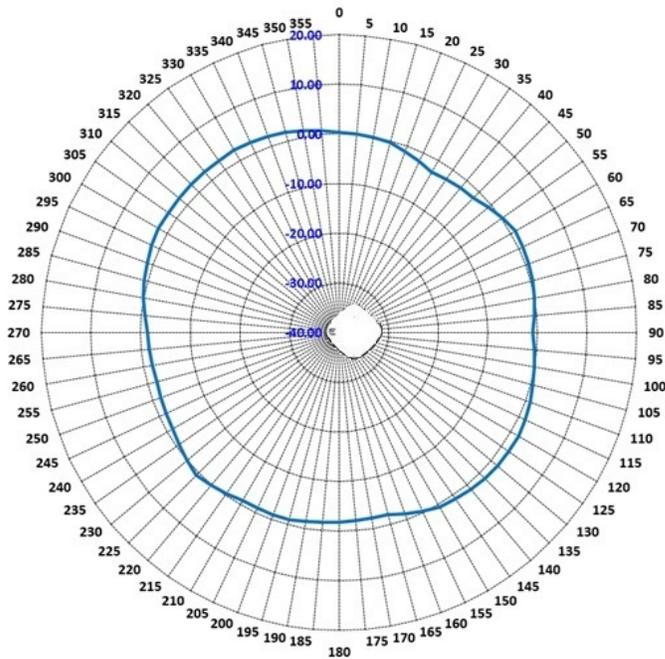
Figure 25: AP4060X BLE Radio 3 - Horizontal Radiation Pattern

Sensor Radiation Patterns

The following diagrams illustrate the radiation patterns for the AP4060X sensor.
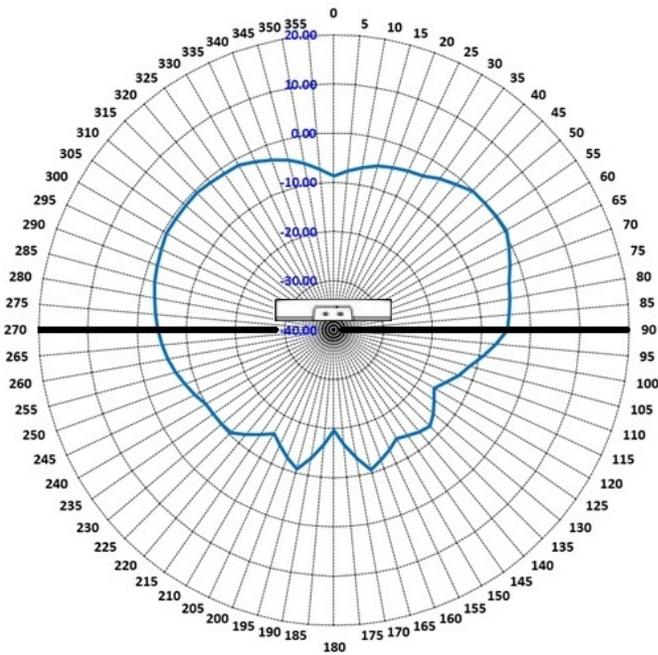
**Figure 26: AP4060X 2.4 GHz Sensor - Vertical Radiation Pattern**
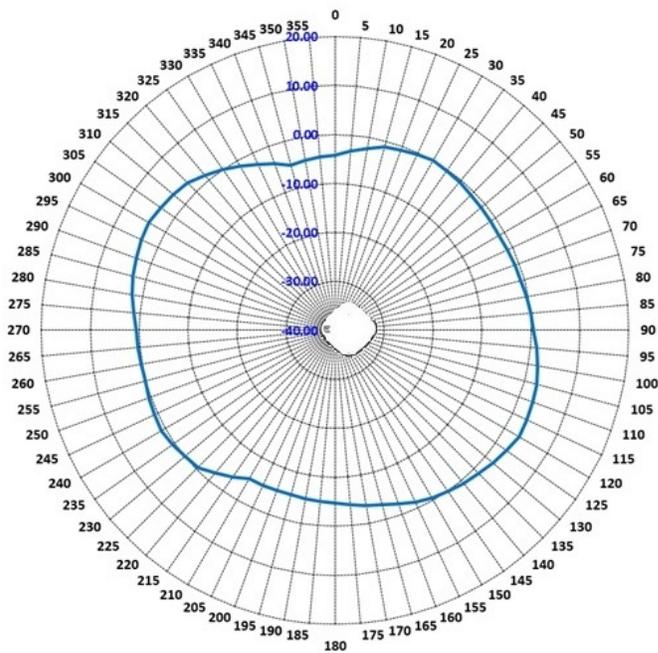
Figure 27: AP4060X 2.4 GHz Sensor - Horizontal Radiation Pattern
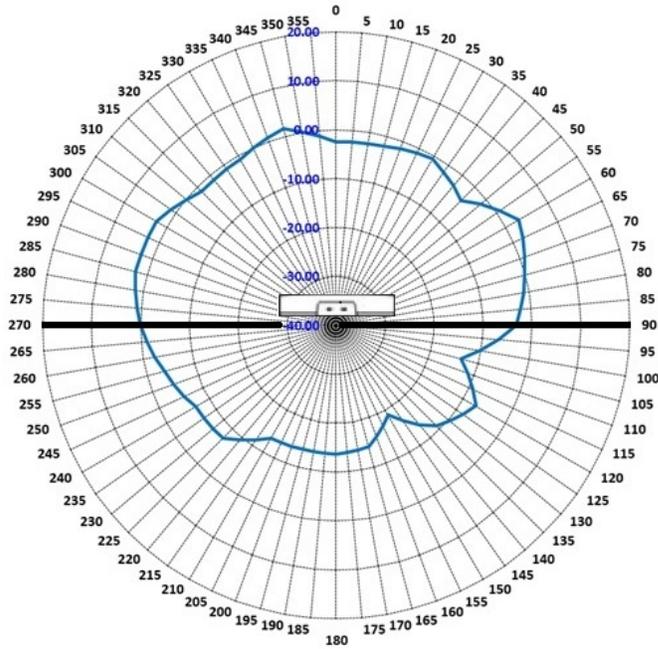
Figure 28: AP4060X 5 GHz Sensor - Vertical Radiation Pattern
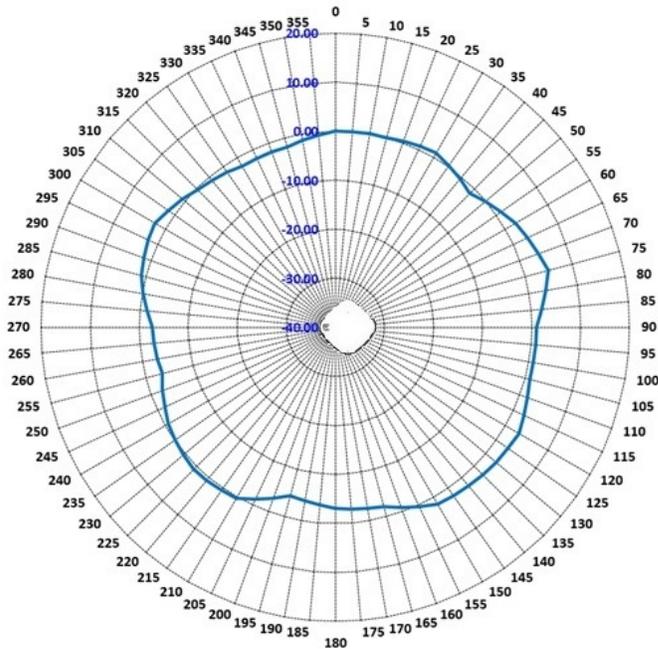
Figure 29: AP4060X 5 GHz Sensor - Horizontal Radiation Pattern
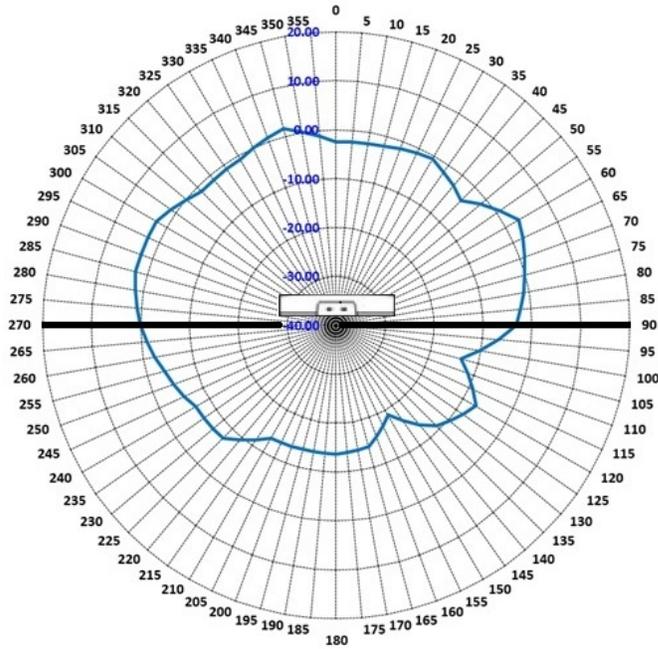
**Figure 30: AP4060X 6 GHz Sensor - Vertical Radiation Pattern**
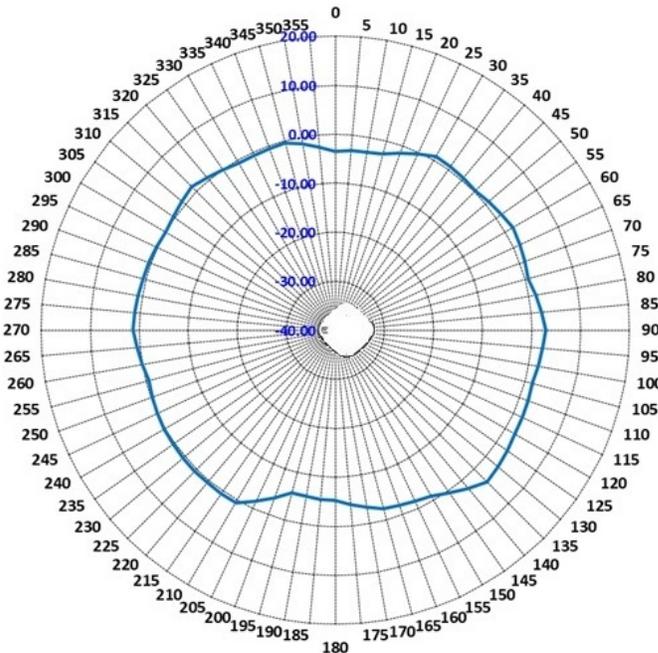
Figure 31: AP4060X 6 GHz Sensor - Horizontal Radiation Pattern

Ports, Connectors, and Hardware Features   Overview

Antenna Gain

The following table shows the internal antenna gain for the AP4060.

Table 6: AP4060 Antenna Gain

Software Mode	Radio 1	Radio 2	Radio 3	Sensor	IoT Radio 1	IoT Radio 2
1	2.4GHz 5dBi	5GHz 5.8dBi	6GHz 11.4dBi	2.4GHz: 5.3dBi 5GHz: 4.9dBi 6GHz: 5dBi	4.3dBi	3.8dBi
2	2.4GHz 5dBi	5GHz 5.8dBi	5GHz 10.5dBi	2.4GHz: 5.3dBi 5GHz: 4.9dBi 6GHz: 5dBi	4.3dBi	3.8dBi

Ports, Connectors, and Hardware Features

The AP4060 and AP4060X have the following ports and connectors:

- ETH0: 100/1,000/2,500/5,000 Mbps auto-sensing link speed Ethernet port, PoE PD; RJ45 connectors
- ETH1: 100/1,000/2,500 Mbps auto-sensing link speed Ethernet port, PoE PD 802.3az Energy-Efficient Ethernet (EEE) ; RJ45 connector

AP4060 Hardware Ports

The following graphic and table show the available ports on the AP.

Figure 32: Ports and Connectors

Table 7: AP4060 Ports and Connectors

Item	Port	Description
1	Hex console cap with tether	-
2	ETH1	Ethernet port
3	ETH0/PoE	Ethernet port
4	Vent	-

AP4060X Hardware Ports

The following graphic and table show the available ports on the AP.

Figure 33: Ports and Connectors

Table 8: AP4060X Ports and Connectors

Item	Port	Description
1	Hex console cap with tether	
2	ETH1	Ethernet port
3	ETH0/PoE	Ethernet port
4	Vent	

The following graphic and table show the antenna ports on the AP4060X.

Figure 34: AP4060X Antenna Ports

Table 9: AP4060X Antenna Ports

Item	Description
1	External N-type antenna Frequency: 2.4 GHz/5 GHz ID Text: 2.4/5G-1
2	External N-type antenna CHAIN0: BLE (2.4 GHz) ID Text: BLE-2
3	External N-type antenna Dual Frequencies: 2.4 GHz/5 GHz ID Text: 2.4G/5G-3
4	External N-type antenna Dual Frequencies: 5 GHz/6 GHz ID Text: 5G/6G-4
5	External N-type antenna Dual Frequencies: 5 GHz/6 GHz ID Text: 5G/6G-5

Radios

The AP4060 and AP4060X have a quad-radio design with three 2x2:1 radios (6 GHz, 5 GHz, and 2.4 GHz bands), a dedicated sensor, and dual IoT radios. It has internal antennas and a GPS.

Operational 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

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
- PoE failover

The AP4060X supports the following power options:

- Power Draw: 802.3at PoE: Typical 21W
- PoE failover

Power Profile

The following tables shows the AP4060 and AP4060X power profiles for the radio modes. Use this information to plan for power consumption as you deploy your APs.

> **Note**
>
> For all the external antennas except dipole antenna AIO-TS06360-N, there are two common orientations:
>
> 1.) Wall/pole mount facing horizontally or tilted towards the ground: This orientation allows you to use higher RF power.
>
> 2.) Any other orientation: This orientation uses lower RF power than pole mount.
>
> For more information, see Antenna Configuration for the Horizon Rule on page 43.

Table 10: 802.3at Power Profile

AP4060 and AP4060X	Radio 1	Radio 2	Radio 3	1x1 Sensor
Mode 1	2.4G 17 dBm	5.0G - Full 18 dBm	6.0G - Full 18 dBm	1x1 Sensor
Mode 2	2.4G 17 dBm	5.0G - High 16 dBm	5.0G - Low 16 dBm	1x1 Sensor

Accessories

TheAP4060 and AP4060X are designed for multiple deployment scenarios. Use the information in the following tables to match your deployment scenario with the required accessories. For more information, see the *Wi-Fi6 11ax Accessories Guide*.

Mounting Accessories

The following table lists the supported mounting accessories for the AP4060 and AP4060X.

> **Note**
>
> For all the external antennas except dipole antenna AIO-TS06360-N, there are two common orientations:
>
> 1.) Wall/pole mount facing horizontally or tilted towards the ground: This orientation allows you to use higher RF power.
>
> 2.) Any other orientation: This orientation uses lower RF power than pole mount.
>
> For more information, see Antenna Configuration for the Horizon Rule on page 43.

Table 11: Supported Mounting Accessories

Item	Description
Option 1: 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.
Option 2: Mount to a Pole or a Wall with +/- 15-Degree Tilt and/or Extension	
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.
Option 3: Mount to a Wall with > 15-Degree Tilt and Variable Extension	
MBO-ART03	MBO-ART03 Articulating Mounting Bracket. Allows 2 axis +/- 80-degree tilt (20-degree increments) and 10 inches extension - wall. (The MBO-ART03 can be used with the KT-147407-02 for pole mounting).

Power Accessories

The following table lists the supported power accessories for the AP4060 and AP4060X.

Table 12: Power Accessories

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

Supported Antennas

The following table lists the supported antennas for AP4060X. Read the antenna technical specifications here.

Table 13: AP4060X Supported Antennas

Item	Description
AIO-TS06360-N	5dBi (2.4 GHz) and 6dBi (5 and 6 GHz) Outdoor Dipole Tri-band with N-Type connector
AIO-TQ08055-N	8dBi Outdoor Quad Sector 65 Degree Tri-band with 4 port N-Type connector
AIO-TQ14035-N	13dBi (2.4 GHz) and 14dBi (5 and 6 GHz) Outdoor Quad Sector 35 Degree Tri-band with 4 port N-Type connector
AIO-TQ06120-N	6dBi Outdoor Quad Sector 120 Degree Tri-band with 4 port N-Type connector

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 14: 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 LED Activity and is operating normally.
Solid amber	The power is **On** and the AP is in boot up mode, or is running without a CAPWAP connection.
Fast-blinking amber	The IQ Engine firmware is updating.

Table 15: ExtremeCloud IQ Controller Status LED Activity

Status	Activity
Dark	Power is off or the AP is taken over by the controller. Configuration pushes down to AP from Controller to turn off the LED.
Solid white	The AP is starting up or is already taken over by the controller.
Flashing fading white	Configuration pushes down to AP from controller helping the user locate the AP by sight.
Solid amber	A firmware upgrade is occurring.
Fast-blinking amber	The AP is acquiring the DHCP IP.

Installation

The AP4060 and AP4060X are weatherized 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*.

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.

Other   Installation

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 powers up 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 16: Hardware

Quantity	Item
1	Extreme AP4060 or AP4060X.
1	Regulatory document for your access point.
2	Phillips pan head wood screws.
2	Phillips head plastic screw-in anchors.
1 each	Grounding lug and star washer.

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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 *id="topic-f2fcb4a2-3164-4c2d-a691-8a9109d9442c">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 ExtremeCloud IQ. Before you install your AP, read the Accessories section and confirm that you have the needed accessories. AP4060X should read the external antenna specification documentation for their antenna.

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

Table 17: Installation Work Flow

Steps	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 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 • 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 • Install the Access Point on a Pole Using AH-ACC-STRP-MRN **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	AP4060X users: Install the detachable antenna. See Antenna Connectors. Read the technical specifications for your antenna here.	Attach the external antenna, if you are using them.
4	Onboard the AP. **Important:** Extreme Cloud IQ Controller and Extreme Cloud IQ users, read Antenna Configuration for the Horizon Rule.	Onboard the AP to either ExtremeCloud IQ or ExtremeCloud IQ Controller.
5	Ground the AP. (Highly recommended).	Group the AP and protect the AP from lightning.
6	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.

Antenna Configuration for the Horizon Rule

You must configure the antenna and environmental settings to comply with the Horizon Rule.

Horizon Rule Compliance Requirements

For outdoor deployments, if the AP4060 or the external antennas on the AP4060X point above the horizon then you must transmit at a lower RF power. This requirement is to ensure that no emissions exceed 21 dBm Effective Isotropic Radiated Power (EIRP) at or above 30 degrees elevation. This is commonly called the Horizon Rule and it applies to the Unlicensed National Information Infrastructure (U-NII) -1 range of the 5 GHz band and the entire 6GHz band.

> ⚠️ **Warning**
> This device is Professional Install only. It is the responsibility of the installer to ensure that the proper antenna, antenna setting and environmental setting are employed so that the applicable FCC compliance limits are not exceeded. Manufacturer is not responsible for non-compliance due to unauthorized installations without the use of an authorized professional installer.

Confirm that the AP is correctly installed before you power up the access point and the radios start transmitting.

Antenna Use Cases

There are two use cases for Extreme Networks panel antennas deployed outdoors:

1. Outdoor wall/pole mount - the antenna faces towards the horizon or points below the horizon. This orientation allows you to use higher RF power.
2. Any other orientation: The antenna points above the horizon. This orientation requires you to use lower RF power.

The AIO-TS06360-N Dipole antenna is a fixed antenna and it will always point in the same direction as the AP.

ExtremeCloud IQ Configuration

Configuration parameters for the Horizon Rule will be available in a future release. Note the following:

- **Outdoor deployments** - If the AP4060 or the external antennas on the AP4060X point above the horizon, then you must transmit at a lower RF power. This requirement is to ensure that no emissions exceed 21 dBm EIRP at or above 30 degrees elevation. This restriction applies to the U-NII-1 range of the 5 GHz band and the entire 6GHz band.
- **Indoor deployments** - The Horizon rule does not apply to indoor deployments. You may transmit at any RF power or angle appropriate to your needs.

ExtremeCloud IQ Controller Configuration

Configure the following Professional Install settings for the Horizon Rule compliance requirements:

- **Antenna Type** - If are deploying the AP4060X then select your antenna from the pull down list.
- **Environment** - Select the appropriate environment from the pull down list.

The following tables show the required parameters. Use this information during deployment. For more information, see *ExtremeCloud IQ Controller User Guide*.

Table 18: AP4060 Environment Parameters for ExtremeCloud IQ Controller

Outdoor/Indoor	AP Mounting Scenario	Select this Environment parameter	Description
Outdoor Deployments	AP points at or below the horizon.	Select **Outdoor** (default setting).	You assign a higher RF power to the AP.
	AP points above the horizon.	Select **Outdoor upwards**.	You assign a lower RF power to the AP. If you do not select this setting, you will not be compliant.
Indoor Deployments	Any direction	Select **Indoor**.	Not applicable.

Table 19: AP4060X Environment Setting for ExtremeCloud IQ Controller

Indoor/Outdoor	Antenna Type	Antenna Mounting Scenario	Select This Environment Parameter	Description
Outdoor Deployments	• AIO-TS06360-N Dipole • AIO-TQ08055-N panel • AIO-TQ14035-N	Antenna points at or below the horizon.	Select **Outdoor** (default setting).	You assign a higher RF power to the AP.
		Antenna points above the horizon.	Select **Outdoor upwards**.	You assign a lower RF power to the AP. If you do not select this setting, you will not be compliant.
Indoor Deployments	• AIO-TS06360-N Dipole • AIO-TQ08055-N panel • AIO-TQ14035-N	Any direction.	Select **Indoor**.	Not applicable.

Antenna Connectors

It is important that you connect the antenna leads to the correct antenna port on the AP. Use the following graphic and table as a guide when you connect your antennas.

Figure 35: Antenna Ports

Table 20: Antennas and Corresponding Ports

Antenna Part Number	AP4060X Ports				
	Antenna Port 1 (2.4/5GHz)	Antenna Port 2 (BLE)	Antenna Port 3 (2.4/5GHz)	Antenna Port 4 (5G/6GHz)	Antenna Port 5 (5G/6GHz)
AIO-TS06360-N	Connect any antenna lead to any available port				
AIO-TQ08055-N	Connect 1/A V-Pol to antenna port 1.	Not Applicable	Connect 2/B H-Pol to antenna port 3.	Connect 3/C V-Pol to port 4	Connect 4/D H-Pol to port 5.
AIO-TQ14035-N	Connect 1V-Pol to port 1.	Not Applicable	Connect 2H to antenna port 3.	Connect 3V to antenna port 4.	Connect 4H to antenna port 5.
AIO-TQ06120-N	Connect 1/A V-Pol to port 1.	Not Applicable	Connect 2/B H-Pol to antenna port 3.	Connect 3/C V-Pol to antenna port 4.	Connect 4/D H-Pol to antenna port 5.
AIO-HQ17020-N	Connect 1/A -45 Pol to port 1.	Not Applicable	Connect 2/B +45 Pol to antenna port 3.	Connect 3/C +45 Pol to antenna port 4.	Connect 4/D -45 Pol to antenna port 5.

Drip Loop for Cables

All LAN cables entering or exiting a gland must have a 3-inch minimum drip loop. After the cables have been connected to the AP and the connections have been weatherproofed, gather each cable below the AP and form a drip loop as shown in the following figure.

When cables have been connected to the AP and the connections have been weatherproofed, gather each cable below the AP and form a drip loop as shown in the following figure.

> **Note**
> The drip loop prevents water from entering the AP by channeling water down and away from the connection points. Drip loops are required to ensure proper operation of the AP.
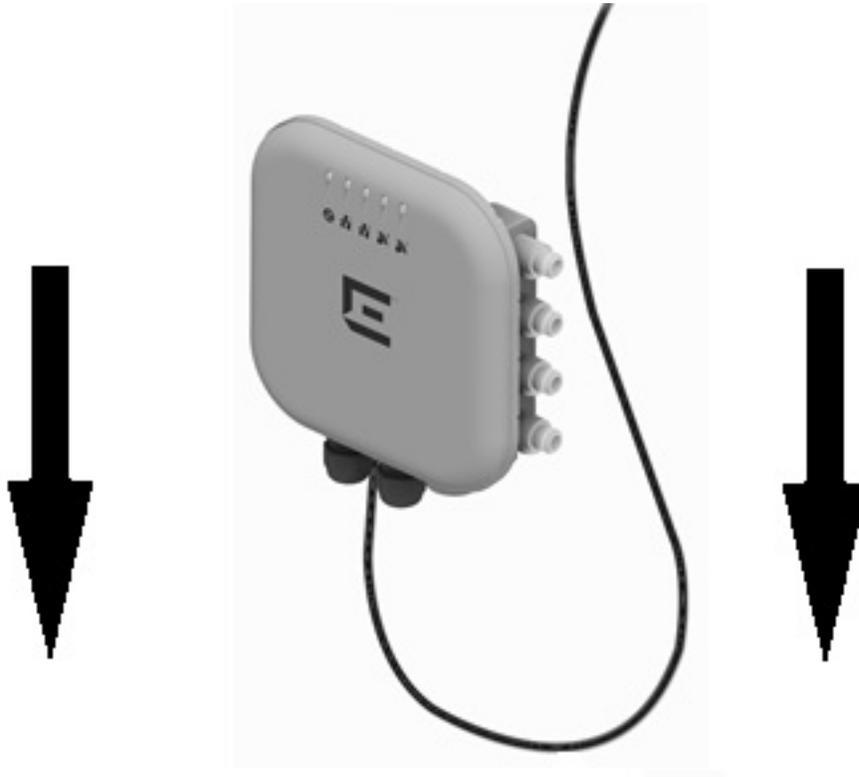
Figure 36: Drip Loop

Access Point Bracket Usage and Mounting Options

The AP4060 and AP4060X 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 21: 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
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 21: 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.
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.

Wall Installations

You have the following options to mount an AP4060 and AP4060X to a wall.

Table 22: Wall Mounting Options

Mounting Accessory	Scenario	Note
Option 1: Mount to a Pole or a Wall Vertically		
AH-ACC-BKT-ASM	Outdoor access point stainless steel wall bracket assembly.	Allows AP to mount to a wall
Option 2: Mount to a Pole with a 15-Degree Tilt		
KT-147407-02	OUTDOOR HDW KIT SS HARSH ENVIRONMENTS	Allows +/– 15-degree tilt – wall or pole mount
KT-150173-01	OUTDOOR AP 12 IN EXT ARM FOR MNTG KIT	Allows 12 in. extension – use with KT-147407-02 for pole and/or tilt
Option 3: Mount to a Wall with > 15-Degree Tilt and Variable Extension		
MBO-ART03	MBO-ART03 Articulating Mounting Bracket	Allows 2 axis +/- 80-degree tilt (20-degree increments) and 10 inches extension - wall

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) mount screws and screw-in anchors, included with the bracket.

About This Task

Install the access point on a vertical or horizontal flat surface using the AH-ACC-BKT-ASM accessory.
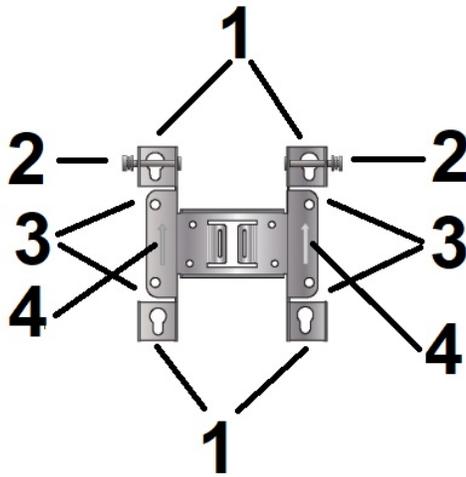
Figure 37: AH-ACC-BKT-ASM Accessory

Table 23: AH-ACC-BKT-ASM Components

Callout	Description
1.	Keyholes
2.	Locking screws
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 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. Reinstall and tighten the locking screws on the ASM accessory to secure the access point.

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 (4) wall 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 wall 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 about 45 in-lbs.

6. The tilt bracket has +15 degrees to -15 degrees of tilt.

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 if you want a tilt. 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 Wall with the MBO-ART03 Bracket

Before You Begin

You need the following items:

- One (1) Access point
- One (1)1MBO-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 one (1) Crescent wrench, socket wrench, or channel pliers 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 about 45 inch-pounds.

10. Tighten the pivot screws and nuts to about 60 inch-pounds.

Pole Installations

You have the following options to mount an AP4060 and AP4060X to a pole.

Table 24: Pole Mounting Options

Mounting Accessory	Scenario	Note
Option 1: 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 two (2) for mounting AP or KT-147407-02 to a pole
Option 2: Mount to a Pole with a 15-Degree Tilt		
KT-147407-02	Outdoor hardware kit for harsh environments.	Allows +/– 15-degree tilt.
KT-150173-01	12-inch extension arm for MNTG kit.	Allows 12 in. extension. Use with KT-147407-02 for pole and/or tilt.
Option 3: Mount to a Wall with > 15-Degree Tilt and Variable Extension		
MBO-ART03	MBO-ART03 Articulating Mounting Bracket	Allows 2 axis +/- 80-degree tilt (20-degree increments).

Install the Access Point on a Pole Using AH-ACC-STRP-MRN

Before You Begin

The following hardware is required for installing the access point on a vertical pole or a horizontal pole:

- Two AH-ACC-STRP-MRN accessories. The best practice is to mount the access point to a pole with a minimum circumference of 3 in. Use a stainless-steel cable clamp that is 0.5 in. (12.7 mm) wide. You must provide your own cable clamps if you are mounting the AP to a pole that is less than 3 in. or more than 7 in. in diameter

- A screwdriver to tighten the clamp screws

About This Task

You can install the access point on a vertical pole in the following positions:

- Vertically oriented access point mounted onto a pole
- Horizontally oriented access point mounted onto a pole

Procedure

1. Thread the cable clamp straps through the access point rear slots.
2. Position and insert the cable clamp straps around the pole.

> **Note**
> Ensure that the access point top slots are nearest to the sky and the bottom slots are nearest to the ground.
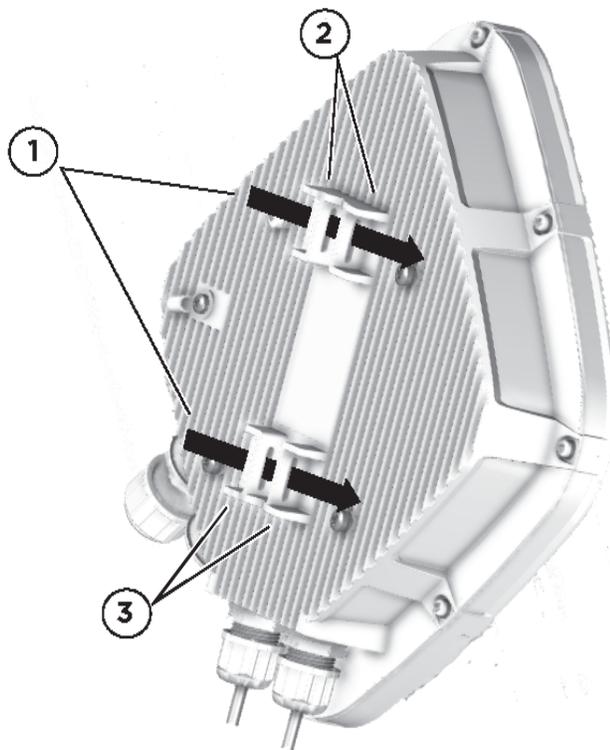
Figure 38: Pole mount strap slots on the back of the access point

Callout	Description
1	Pole mount cable clamp strap insert holes in the back of the access point
2	Top slots on the rear of the access point facing the sky
3	Bottom slots on the rear of the access point facing the ground

3. Using a slotted screwdriver, tighten the clamp screws to a minimum torque of 14 in-lbs. until the access point is securely mounted onto the pole.

    As an added security measure, you can thread a safety strap through one of the cable clamp slots in addition to the cable clamps. Connect the other end of the strap to a secure object.

    ➡️ **Important**
    The access point LAN glands must face down to eliminate water from entering the chassis.

Install the Access Point on a Pole Using KT-147407-02 Bracket Parts (15 Degree Tilt)

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.

📝 **Note**
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 AP.
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 about 11 in-lbs.

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 M6 screws
- Four hex-head M12 stainless-steel screws
- Four hex-head M12 stainless-steel nuts
- Two 0.5" wide stainless-steel cable clamps
- One 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.
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 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 bandwidth of 0.5 in. (12.7 mm). Cable clamps must be purchased separately as they are not included.

- One (1) Crescent wrench, socket wrench, or channel pliers.
- One (1) 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 about 45 inch-pounds.
10. Tighten the pivot screws and nuts to about 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 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.
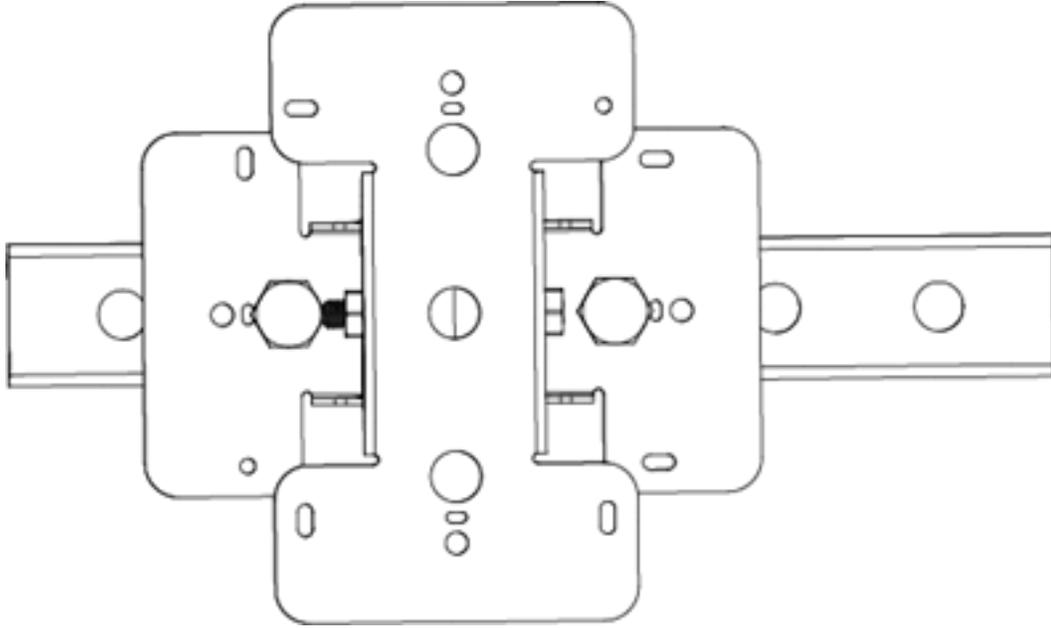
Procedure

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 about 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 about 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 about 50 in-lbs; M8 pivot bolts at about 60 in-lbs.

Adjust the MBO-ART03 Bracket 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.
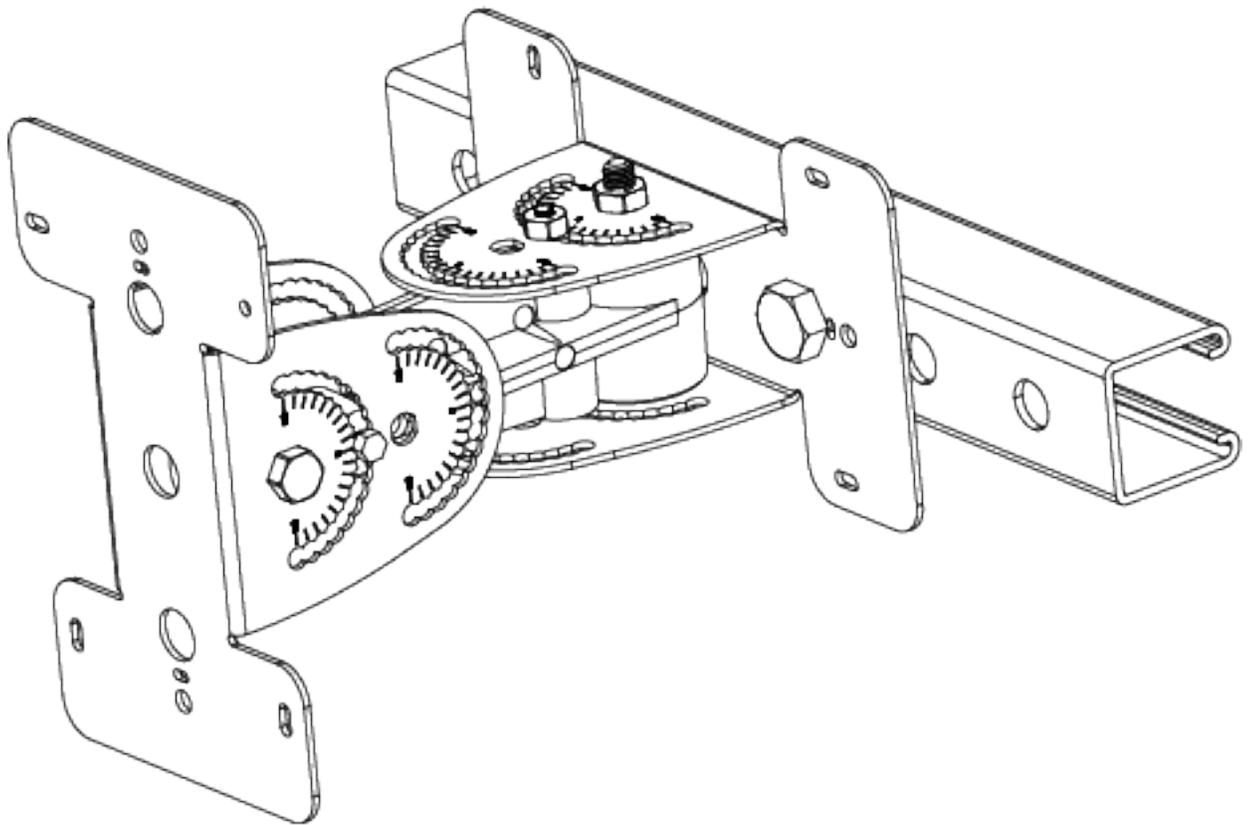
Figure 39: MBO-ART03 Bracket Angular Adjustments

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 about 45 inch-lbs.

5. Torque the pivot screws and nuts to about 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.

Connect the ETH1 or ETH0 Cable

About This Task

The ETH1 or ETH0 cable is connected through the ETH1 or ETH0 gland port.
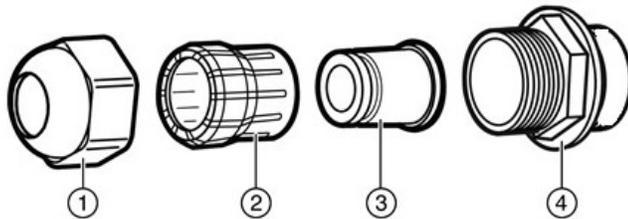
Figure 40: Gland Components

Note the following information for the Gland LAN cable gasket:

- The length from the end of the RJ45 plug to the LAN cable may be a maximum of 40 millimeters (1.574 inches).
- Use the grey colored Gland LAN gasket included in the as shipped product's gland for all CAT5 and CAT5E LAN cables.
- Also use the grey colored Gland LAN gasket included in the as shipped product's gland for CAT6, without shielding, LAN cables.
- Use the black colored Gland LAN gasket for CAT6, with shielding, and all CAT6A LAN cables and reuse the Gland cage (item 2 in the table below). Ten (10) of the black colored Gland LAN gaskets can be purchased as accessory ACC-CAT6A-LAN-GSKT.

Table 25: 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 at least 16-in lbs.

Connect the AP to the Network

Before You Begin
You will need a Ethernet cable. Locate the Ethernet ports on the AP before you begin.

About This Task
Once you have installed the AP, connect it to the network.

Procedure

Do one of the following:

- Connect the Ethernet cable to the ETH0/PoE port for PoE.
- Connect the Ethernet cable to the ETH1 for data or PoE redundancy.

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 and star washer on the ground screw. Thread the ground screw into the access point hole below the ground symbol.
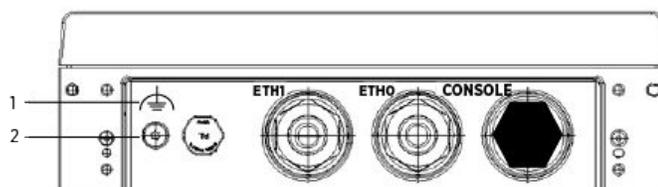
Figure 41: Grounding Components

Table 26: 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 included ring terminal and star washer 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.

Secure the Access Point after Installation

Details about installing a security cable on the access point after installation.

Before You Begin

The following hardware must be supplied by the user for safety cable installation:

- A 3 mm diameter security cable
- Lock to secure the ends of the security cable

About This Task

You can secure the access point to the mounting environment using a 3 mm diameter safety cable. The safety cable is used to enhance the physical security of the access point after installation.
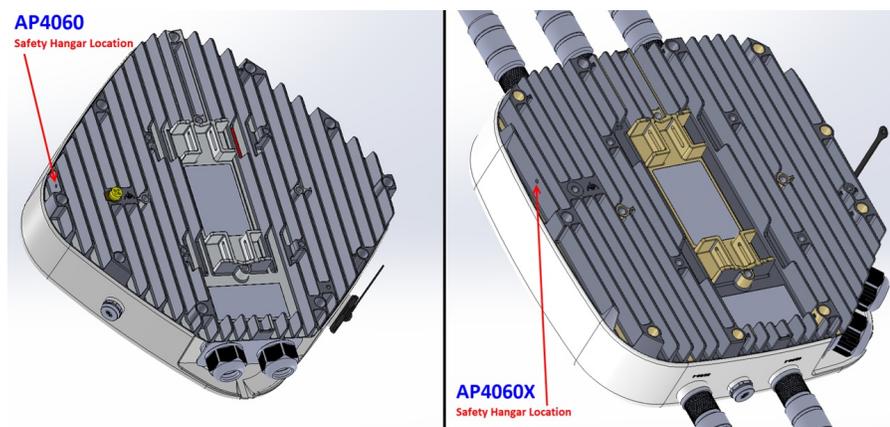
Figure 42: Safety Hanger

Procedure

1. Insert the safety cable through the security cable hole on the metal base of the access point.

2. Push the cable through the security hole until you see it come out on the other side of the metal base.

3. Insert a lock through the looped ends of the cable and lock it in place.

Power or Pressure Washing Guidelines

Details about how to safely pressure wash the surface around the access point.

Before You Begin
Ensure that your pressure washing equipment fulfills the following specifications:

- Pressure washer Pounds per Square Inch (PSI) must be less than 4000.
- Do not use a nozzle with less than 15-degree washer tip.

- The pressure washing nozzle must be at least 24 in. away from the access point.

Cleaning solution specifications:

- Use only commercially available cleaning agents and solvents to clean the access point.
- Use only commercially available ice-melt products.

> ⚠️ **Warning**
> Do not use cleaning agents, solvents, and ice-melt products that are flammable, contain polycarbonate or rubber dissolving ingredients, uses refined petrochemical materials, and any other materials that can damage a concrete surface.

> 📋 **Note**
> Do not use the power washing equipment near power lines.

> 📋 **Note**
> Wear safety goggles with complete eye protection when using the power washing equipment.

About This Task

You can pressure wash the access point and the surface under a seat or a slope around the access point to remove dirt and debris.

> 💡 **Tip**
> The best practice is to follow the pressure washing guidelines for longevity of the access point parts.

Procedure

1. Use a prescribed pressure washing nozzle to wash the access point and the surface around it
2. Keep the pressure washing nozzle at least 24 in. away from the access point.

Troubleshoot the AP

Use the information in the following sections to troubleshoot your AP.

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 micro-USB 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).
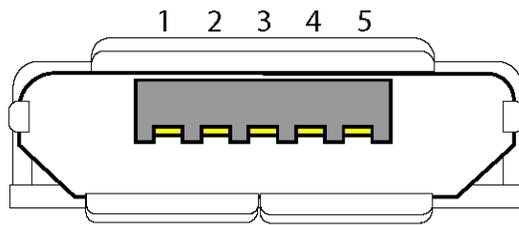
Figure 43: Micro-B model Console Port Pin Information

Table 27: Micro-B USB Pin Information

Pin Number	Pin Name and Description
1	NC
2	R×D (input to access point)
3	T×D (output to terminal)
4	Signal (GND)
5	Signal (GND)

Reset the AP

You can solve common, temporary issues by performing a reboot or factory reset on the AP. It is important to know the difference between the two before you perform a reset or reboot.

See LED Descriptions for an explanation of LED display.

The **Reset** button is accessed by removing the console port cap. See Ports, Connectors, and Hardware Features on page 32.

Reboot the AP

A reboot - also called a power cycle - deletes the logs, but preserves all of the configuration settings. It also applies firmware upgrades and is often done to clear minor issues such as software issues or if the AP is not responding.

There are two ways to reboot the AP:

- With a hardware reboot - either by disconnecting the power adapter or the PoE cable, or by pressing and immediately releasing the **Reset** button.

> **Important**
> **When you perform a hardware reboot, press and release the Reset button.** Do not hold the **Reset** button. If you hold the **Reset** button then you will start a Factory Reset.

- With ExtremeCloud IQ Controller and ExtremeCloud IQ. See ExtremeCloud IQ Controller User Guide or ExtremeCloud IQ User Guide. This is often done after installation or if the AP cannot be easily accessed.

Factory Reset

A factory reset deletes your configuration settings and restores the AP to the original factory settings.

> **Note**
> A factory reset should only be done if you intend to restore AP to the original factory configurations.

There are two ways to factory reset the AP:

- With a hardware reset - press and hold the **Reset** button for at least 10 seconds.
- With ExtremeCloud IQ Controller and ExtremeCloud IQ. See ExtremeCloud IQ Controller User Guide or ExtremeCloud IQ User Guide.

Regulatory and Compliance

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 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

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.

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.

Antenne 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.

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.

Energy-related Products (ErP) Notice

This equipment has been tested and is found to comply with the limits of Ecodesign Directive 2009/125/EC. Under the directive, this device may be considered a "networked equipment with high network availability" (HiNA equipment).

The communication protocol used is IEEE 802.11 b/g/n/a/ac/ax/be.

Wi-Fi functions can be controlled by ExtremeCloud IQ.

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 5925-7125 MHz transmitter operation in Low Power Indoor mode:

1. FCC regulations restrict the operation of this device to indoor use only.
2. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet in the 5.925-6.425 GHz band.
3. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

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.

AP4060: This device was tested with a separation distance of 49 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.

AP4060X: This device was tested with a separation distance of 61 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.

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.

Operation in the band 5925-7125 MHz subject to, (1) FCC regulations restrict the operation of this device to indoor use only, (2) the operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet, and (3) operation of transmitters in the 5.925 GHz - 7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

Industry Canada Notice

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation in the band 5925 to 7125 MHz subject to the following two conditions: (1) IC regulations restrict the operation of this device to indoor use only, and (2) the operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.

Cet appareil contient un ou des émetteurs/récepteurs exempts de licence conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada.

Fonctionnement dans la bande 5925 à 7125 MHz sous réserve des deux conditions suivantes: (1) Les réglementations de la IC limitent le fonctionnement de cet appareil à une utilisation en intérieur uniquement, et (2) le fonctionnement de cet appareil est

interdit sur les plates-formes pétrolières, les voitures, les trains, les bateaux et les avions, sauf que le fonctionnement de cet appareil est autorisé dans de grandes avion en vol au-dessus de 10 000 pieds

.

⚠️ **Caution**

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.

⚠️ **Caution**

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.

RSS-247 (6.4)

Where applicable, antenna types, antenna models, and worst-case tilt angles necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-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.

L'émetteur/récepteur exempt de license contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de license. 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.

   a.

⚠️ **Caution**

AP4060: Equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with minimum distance 27cm between the radiator and your body.

AP4060X: Equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with minimum distance 34cm between the radiator and your body.

⚠️ **Caution**

AP4060: 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 27cm de distance entre la source de rayonnement et votre corps.

AP4060X: 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 34cm de distance entre la source de rayonnement et votre corps.

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).

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

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。

高增益指向性天線只得應用於固定式點對點系統

BSMI Statement - Taiwan

警告: 為避免電磁干擾，本產品不應安裝或使用於住宅環境。
Taiwan BSMI報關義務人
申請人: 愛爾蘭商極進網絡技術行動有限公司台灣分公司
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電話: 02-2715-7336

產品說明的補充

單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
金屬零件 (Metal Parts)	○	○	○	○	○	○
電路模組 (Circuit Modules)	−	○	○	○	○	○
電纜及電纜組件 (Cables & Cable Assemblies)	○	○	○	○	○	○
塑料和聚合物零件 (Plastic and Polymeric parts)	○	○	○	○	○	○

備考1. "超出0.1 wt %" 及 "超出0.01 wt %" 係指限用物質之百分比含量超出百分比含量基準值。
Note 1 : "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. "○" 係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2 : "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. "−" 係指該項限用物質為排除項目。
Note 3 : The "−" indicates that the restricted substance corresponds to the exemption.

China Compliance Statement

核准编号 CMIIT ID 在产品铭牌位置标识

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

AP4060

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)

AP4060 EU	AP4060 UK
2412-2472MHz: 19.98dBm	2412-2472MHz : 19.98dBm
2412-2480MHz (BT): 9.97dBm	2412-2480MHz (BT):9.97dBm
2412-2480MHz (802.15.4): 9.47dBm	2412-2480MHz (802.15.4): 9.47dBm
5180-5240MHz : 22.99dBm	5180-5240MHz : 22.99dBm
5260-5320MHz : 22.99dBm	5260-5320MHz : 22.99dBm
5500-5700MHz : 29.76dBm	5500-5700MHz : 29.76dBm
5745-5825MHz : 13.97dBm	5745-5825MHz : 29.53dBm
5955-6415MHz : 22.99dBm	5955-6415MHz : 23.97dBm

AP4060X

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)

AP4060X EU	AP4060X UK
22412-2472MHz:19.98dBm	2412-2472MHz : 19.98dBm
2412-2480MHz (BT): 9.97dBm	2402-2480MHz (BT): 9.97dBm
2412-2480MHz (802.15.4): 9.94dBm	2412-2480MHz (802.15.4): 9.94dBm
5180-5240MHz : 22.97dBm	5180-5240MHz : 22.97dBm
5260-5320MHz : 22.98dBm	5260-5320MHz : 22.98dBm
5500-5700MHz : 29.98dBm	5500-5700MHz : 29.98dBm
5745-5825MHz : 13.97dBm	5745-5825MHz : 29.98dBm
5955-6415MHz : 22.99dBm	5955-6425MHz : 23.97dBm

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

Country of Manufacture

China

Manufacturer: Sercomm Corporation

Address: No.8, Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China

Philippines

Manufacturer: Sercomm Philippines, Inc.

Address: Lot 4, Innovation Drive, CIP 1, Canlubang, 4027, City of Calamba Laguna, Philippines

Taiwan

Manufacturer: Sercomm Chunan

Address: No.81, YuYi Road, Chu-Nan Miao-Li 350, Taiwan

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 user's responsibility to utilize the available collection system to ensure WEEE is properly treated.

Information on the product take back program, the treatment and recycling facilities, and detailed information regarding the components, materials, and location of hazardous substances is available free of charge upon request by contacting Green@extremenetworks.com.

Declaration of Conformity in Languages of the European Community

English	Hereby, Extreme Networks declares that the radio equipment type (AP4020/AP4020WW) is in compliance with Directive 2014/53/EU. For full text of the EU Declaration of Conformity, contact Extreme Regulatory Compliance at compliancerequest@extremenetworks.com
Finnish	Valmistaja Extreme Networks vakuuttaa täten että Radio LAN device (AP4020/AP4020WW) tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. EU-vaatimustenmukaisuusvaatimuksen täydellisestä tekstistä ota yhteyttä äärimmäisiin säädösten noudattamiseen osoitteessa compliancerequest@extremenetworks.com
Dutch	Hierbij verklaart Extreme Networks dat het toestel Radio LAN device (AP4020/AP4020WW) in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU. Neem voor de volledige tekst van de EU-conformiteitsverklaring u contact opnemen met extreme regelgeving op compliancerequest@extremenetworks.com
French	Par la présente Extreme Networks déclare que l'appareil Radio LAN device (AP4020/AP4020WW) est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU. Pour obtenir le texte intégral du processus de Déclaration de la conformité de l'UE, veuillez contacter la conformité réglementaire extrême à l'adresse suivante: compliancerequest@extremenetworks.com
Swedish	Härmed intygar Extreme Networks att radioutrustningstypen (AP4020/AP4020WW) överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/ EU. För fullständig text av EU-försäkran om överensstämmelse, kontakta Extreme regelefterlevnad på compliancerequest@extremenetworks.com
Danish	Undertegnede Extreme Networks erklærer herved, at følgende udstyr Radio LAN device (AP4020/AP4020WW) overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU. For den fulde ordlyd af EU-overensstemmelseserklæringen bedes du kontakte Extreme Regulatory Compliance på compliancerequest@extremenetworks.com
German	Hiermit erklärt Extreme Networks die Übereinstimmung des "WLAN Wireless Controller bzw. Access Points" (AP4020/AP4020WW) mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 2014/53/EU. Für den vollständigen Wortlaut der EU-Konformitätserklärung wenden Sie sich bitte an extreme Regulatory Compliance unter compliancerequest@extremenetworks.com
Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Extreme Networks ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN device (AP4020/AP4020WW) ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU. Για το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ, παρακαλούμε επικοινωνήστε με την ακραία κανονιστική συμμόρφωση στο compliancerequest@extremenetworks.com
Icelandic	Extreme Networks lysir her med yfir að thessi bunadur, Radio LAN device (AP4020/AP4020WW), uppfyllir allar grunnkrofur, sem gerdar eru i R&TTE tilskipun ESB nr 2014/53/EU. Fyrir fullan texta í ESB yfirlýsingu um samræmi, vinsamlegast hafðu samband við Extreme Reglufylgni á compliancerequest@extremenetworks.com

Italian	Con la presente Extreme Networks dichiara che questo Radio LAN device (AP4020/AP4020WW) è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU. Per il testo integrale della Dichiarazione di conformità dell'UE, contattare Extreme Regulatory Compliance presso compliancerequest@extremenetworks.com
Spanish	Por medio de la presente Extreme Networks declara que el Radio LAN device (AP4020/AP4020WW) cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU. Para obtener el texto completo de la Declaración de conformidad de la UE, póngase en contacto con Extreme Regulatory Compliance en compliancerequest@extremenetworks.com
Portugu ese	Extreme Networks declara que este Radio LAN device (AP4020/AP4020WW) está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU. Para o texto integral da declaração de conformidade da UE, contacte a conformidade regulamentar extrema em compliancerequest@extremenetworks.com
Malti	Hawnhekk, Extreme Networks, jiddikjara li dan Radio LAN device (AP4020/AP4020WW) jikkonforma mal-ħtigijiet essenzjali u ma provvedimenti ohrajn relevanti li hemm fid-Dirrettiva 2014/53/EU. Għat-test sħiħ tad-dikjarazzjoni ta ' konformità tal-UE, jekk jogħġbok ikkuntattja lill-konformità regolatorja compliancerequest@extremenetworks.com

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