



ExtremeWireless™ Indoor Access Point AP4000

Installation Guide

9037237-01 Rev AB
November 2023



Copyright © 2023 Extreme Networks, Inc. All rights reserved.

Legal Notice

Extreme Networks, Inc. reserves the right to make changes in specifications and other information contained in this document and its website without prior notice. The reader should in all cases consult representatives of Extreme Networks to determine whether any such changes have been made.

The hardware, firmware, software or any specifications described or referred to in this document are subject to change without notice.

Trademarks

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries.

All other names (including any product names) mentioned in this document are the property of their respective owners and may be trademarks or registered trademarks of their respective companies/owners.

For additional information on Extreme Networks trademarks, see: www.extremenetworks.com/company/legal/trademarks

Open Source Declarations

Some software files have been licensed under certain open source or third-party licenses.

End-user license agreements and open source declarations can be found at: <https://www.extremenetworks.com/support/policies/open-source-declaration/>



Table of Contents

Preface.....	5
Text Conventions.....	5
Documentation and Training.....	6
Help and Support.....	7
Subscribe to Product Announcements.....	7
Send Feedback.....	8
AP4000 Access Point Overview.....	9
New in this Guide.....	9
November 2023 Revisions.....	9
AP4000 Features and Specifications.....	10
Features.....	10
Temperature Specifications.....	11
Power Specifications.....	11
Micro USB Console Port Information.....	12
Power Profile.....	12
Status LED Activity Description.....	13
Install the Access Point.....	15
Access Point Box Contents.....	15
Install the Access Point on a Standard Ceiling.....	16
Install the Access Point on a Wall or a Solid Surface Using the AH-ACC-BKT-AX-TB Bracket.....	18
Non-Standard Ceiling Grid or Wall Installation.....	20
Lock the Indoor Access Point after Installation.....	24
Internal Antenna Information.....	25
Regulatory and Compliance Information.....	26
Safety Guidelines.....	26
Federal Communications Commission (FCC) Notice.....	27
Japan Indoor Use Statement.....	27
Japan Voluntary Control Council for Interference (VCCI) - Class B.....	28
European Union (EU) Radiation Warning Statement.....	28
Brazil Agência Nacional De Telecomunicações (Anatel) Statement.....	28
Mexico Compliance Statement.....	28
UK Statement and CE Statement.....	28
Industry Canada Statement.....	29
Industry Canada indoor warning.....	29
Taiwan Regulatory Statement.....	30
Hazardous Substances.....	31
European Waste Electrical and Electronic Equipment (WEEE) Notice.....	31
Supplement to Product Instructions.....	32

Declaration of Conformity in Languages of the European Community.....	33
Index.....	36



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 ExtremeSwitching switches or SLX routers, the product is referred to as *the switch* or *the router*.

Table 1: Notes and warnings






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

Table 2: Text

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

Table 3: Command syntax

Convention	Description
bold text	Bold text indicates command names, keywords, and command options.
<i>italic</i> 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, <i>member[member...]</i> .
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and software compatibility](#) for Extreme Networks products

[Extreme Optics Compatibility](#)

[Other resources](#) such as white papers, data sheets, and case studies

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit www.extremenetworks.com/education/.

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 2826. 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 Information Development 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, do either of the following:

- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at documentation@extremenetworks.com.

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.



AP4000 Access Point Overview

[New in this Guide](#) on page 9

[AP4000 Features and Specifications](#) on page 10

[Micro USB Console Port Information](#) on page 12

[Power Profile](#) on page 12

[Status LED Activity Description](#) on page 13

The AP4000 access point is a high-performance 802.11ax Wi-Fi 6E access point. Designed for high-density indoor environments, it can operate in 6 GHz, 5 GHz, and 2.4 GHz bands.

The access point supports IEEE 802.11ax Orthogonal Frequency-Division Multiple Access (OFDMA) multi-user access.

Related Topics

[AP4000 Features and Specifications](#) on page 10

[Power Profile](#) on page 12

[Status LED Activity Description](#) on page 13

New in this Guide

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

November 2023 Revisions

Table 4: New and revised information

Description	Section
Updated for UK Compliance	UK Statement and CE Statement
Updated for Taiwan Compliance	Taiwan Regulatory Statement
Update for Federal Communications Commission (FCC) Notice	Federal Communications Commission (FCC) Notice

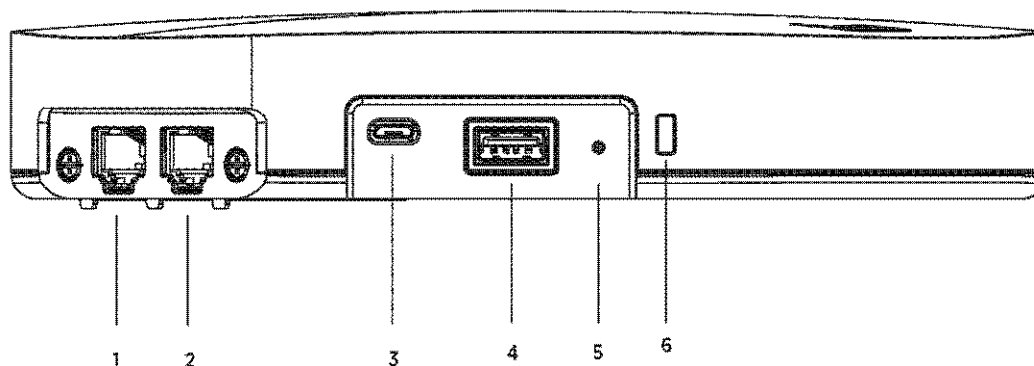
Table 4: New and revised information (continued)

Description	Section
Updated for LED support.	Status LED Activity Description
Updated for Micro USB support.	Micro USB Console Port Information

AP4000 Features and Specifications

Features

The access point has the following hardware components:

**Figure 1: AP4000 hardware components**

Callout	Description
1	Eth1
2	Eth0/PoE+
3	Console port
4	USB port
5	Reset button
6	Security Kensington lock

The access point has the following features:

- One multicolor LED status light

For LED activity description, see [Status LED Activity Description](#) on page 13.

- One light sensor located at the top of the device
- Two Ethernet ports - Eth0 and Eth1

Ethernet ports (Eth0 and Eth1) automatically negotiate half- and full-duplex connections with the connecting device.

- Eth0: 100/1000/2500 Mbps auto-negotiation Ethernet port, RJ45, Power over Ethernet (PoE) at 802.3at
- Eth1: 10/100/1000 Mbps auto-negotiation Ethernet port, RJ45

These ports are auto-sensing and adjust to straight-through and crossover standard Cat5e or better Ethernet cables automatically. The access point receives power through an Ethernet connection to the Eth0 port from power sourcing equipment (PSE) that is compatible with the 802.3at and 802.3at standards.

- One USB port

Use the USB port to connect USB-based beacons such as iBeacon and Internet of Things (IoT) devices. Remove the screw that secures the protective cover to access the USB port.

- One micro USB console port

Through the console port, you can make a serial connection between your management system and the access point.

**Note**

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

- One reset button
- One Kensington lock

**Tip**

The best practice is to use Kensington locks for locking the device.

Temperature Specifications

- Operating temperature: 0 °C to +50 °C (+32 °F to +122 °F)
- Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F)
- Relative humidity: 0% to 95% non-condensing

Power Specifications

IEEE 802.3at PoE Power

For detailed specifications, refer to the [AP4000 Data Sheet](#).

Micro USB Console Port Information

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



Note

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

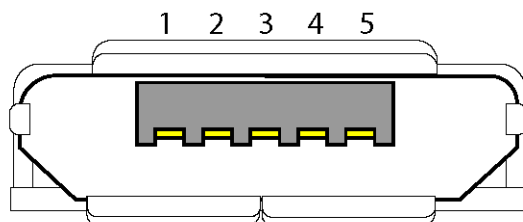


Figure 2: Micro-B model Console Port Pin Information

Table 5: Micro-B USB Pin Information

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

Power Profile

- Power draw:
 - Typical: 12.3 W; Max: 13.8 W (without USB)
 - Typical: 15.0 W; Max: 16.6 W (with USB)
- 802.3at PoE capable
- Gigabit Ethernet port (RJ45 power input pins: Wires 4,5,7,8 or 1,2,3,6)

Table 6: AP4000 power profile for 802.3af and 802.3at

AP4000	802.3af	802.3at
Radio 0 (2.4G)	2×2 (16 dBm)	2×2 (18 dBm)
Radio 1 (5G)	2×2 (16 dBm)	2×2 (18 dBm)
Radio 2 (6G)	2×2 (16 dBm)	2×2 (18 dBm)

Table 6: AP4000 power profile for 802.3af and 802.3at (continued)

AP4000	802.3af	802.3at
BLE	On	On
USB	Off	On

Status LED Activity Description

The AP4000 access point has one status light on top of the chassis. The status light conveys operational states for system power, firmware updates, Ethernet and wireless interface activity, and major alarms.

Table 7: IQ Engine Status LED Activity

Status	Activity
Dark	Power is off
Solid white	The device power is on and the access point is ready to use. The device has successfully established a Control And Provisioning of Wireless Access Points (CAPWAP) connection to ExtremeCloud IQ and is operating normally
Slow-blinking white	The device has a CAPWAP connection to ExtremeCloud IQ, but is operating on 802.3at power instead of 802.3bt power
Solid amber	The device power is on and the access point is in boot up mode, or is running without a CAPWAP connection
Slow-blinking amber	The device has no CAPWAP connection to ExtremeCloud IQ, and is operating on 802.3at power instead of 802.3bt power
Fast-blinking amber	The device is updating its IQ Engine firmware

Table 8: ExtremeWireless WiNG Status LED Activity

Status	Activity
Dark	Power is off or Access point is taken over by the controller. Configuration pushes down to access point from controller to turn off the LED completely
Solid white	The device is booting or already taken over by the controller
Slow-blinking white	The device is in the process of being taken over by the controller or has failed to be taken over by the controller

Table 8: ExtremeWireless WiNG Status LED Activity (continued)

Status	Activity
Flashing fading white	Configuration pushes down to access point from controller helping an user to locate the access point location using visual inspection
Solid amber	The access point is upgrading its firmware
Fast-blinking amber	The access point is acquiring DHCP IP



Install the Access Point

[Access Point Box Contents](#) on page 15

[Install the Access Point on a Standard Ceiling](#) on page 16

[Install the Access Point on a Wall or a Solid Surface Using the AH-ACC-BKT-AX-TB Bracket](#) on page 18

[Non-Standard Ceiling Grid or Wall Installation](#) on page 20

[Lock the Indoor Access Point after Installation](#) on page 24

Details about pre-installation checks and various installation options.

About This Task

The access point can be installed on an indoor environment such as a ceiling rail, on non-standard ceilings, and on a wall. The access point is shipped with one mounting bracket, but can be used with other mounting accessories. For more information about selecting the right accessory for your installation scenario, see [802.11ax and Cloud Access Points Accessories Guide](#).

Procedure

1. Verify the access point [box contents](#).
2. Visually inspect the access point, the mounting bracket, and any other optional accessories that you have ordered for physical damage.
If there is any damage, contact [Extreme Networks Support](#).
3. Read and review the [safety guidelines](#).
4. Select an access point mounting option:
 - To install the access point on a standard ceiling rail, see [Install the Access Point on a Standard Ceiling](#) on page 16.
 - To install the access point on a non-standard ceiling grid or a wall, see [Non-Standard Ceiling Grid or Wall Installation](#) on page 20.
5. [Lock the access point](#) after installation.

Access Point Box Contents

When you purchase the access point, ensure that the following items are available in the box:

- An AP4000 access point

- One mounting bracket for 15/16 in. T-bar ceiling installation (part number AH-ACC-BKT-AX-TB)

**Note**

The mounting bracket includes wall mounting hardware; two screws and two anchors for wall installation.

- One quick reference guide

All optional brackets and accessories are sold separately. For detailed instructions about all mounting procedures, see [802.11ax and Cloud Access Points Accessories Guide](#).

Install the Access Point on a Standard Ceiling

Details about access point installation on a standard ceiling

Before You Begin

Hardware requirements for installation:

- One AP4000 access point
- One AH-ACC-BKT-AX-TB bracket

About This Task

The access point ships with the AH-ACC-BKT-AX-TB mounting bracket for standard 15/16 in. dropped ceiling grid or for 9/16 in. wide and flat T-bar, and for walls or solid surfaces with the appropriate mounting hardware. For wall or solid surface installation using the AH-ACC-BKT-AX-TB bracket, see [Install the Access Point on a Wall or a Solid Surface Using the AH-ACC-BKT-AX-TB Bracket](#) on page 18.

For non-standard ceiling rail installations, see [Install the Access Point on a Non-Standard Ceiling Grid or a Wall](#).

The bracket and the access point have a red dot on the back that acts as a guide during installation.

To install the access point:

Procedure

1. Remove the ceiling tiles.

- Align the bracket on the ceiling rail in such a way that the bracket metal angled cuts are parallel to the sides of the ceiling rail.

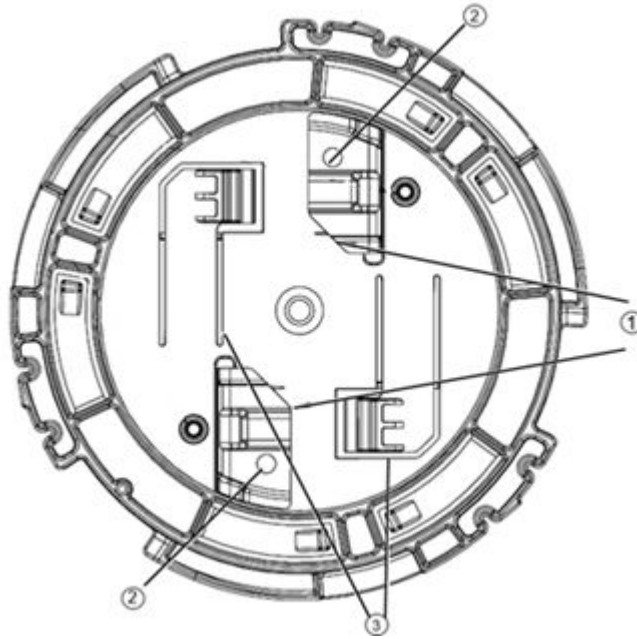


Figure 3: AH-ACC-BKT-AX-TB bracket

Callout	Description
1	Metal angled cuts
2	Wall mount holes
3	White tab

- Rotate the bracket clockwise until the metal angled cuts on the back of the bracket hook over the edge of the ceiling rail and the white tabs click in place.



Note

There are two white tabs in the back of the bracket that holds on to the ceiling rail in place. Use your finger to push and unhook one side of the white tab if you want to remove the accessory from the ceiling rail.

- Attach the Ethernet port cap to the access point Ethernet port.
- Align the red dot on the back of the access point against the red dot on the bracket.



Note

The bracket has a center circular tip that fits into the circular dip on the back of the access point.

6. Press and rotate the access point 1/8th turn clockwise until it clicks into place on the bracket.

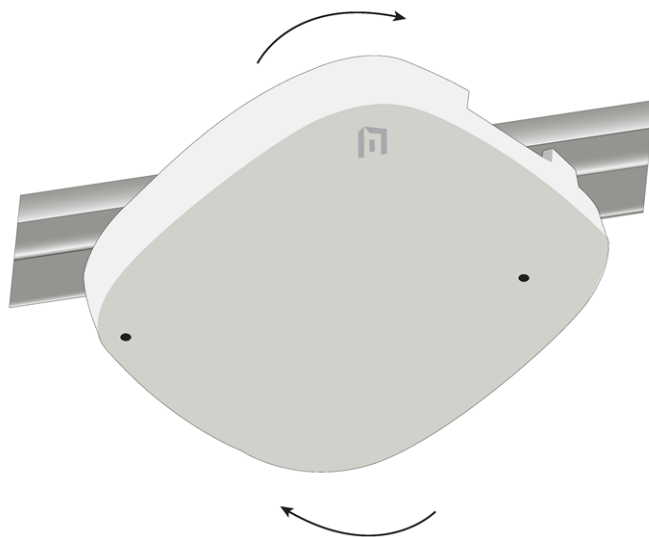


Figure 4: AP4000 standard ceiling install

7. Attach the Cat6 RJ45 cable to the Eth0 or Eth1 port.
8. Place the cable cover over the Ethernet cable.
9. Replace the ceiling tiles.

Install the Access Point on a Wall or a Solid Surface Using the AH-ACC-BKT-AX-TB Bracket

Install the access point on a wall or a solid surface using the AH-ACC-BKT-AX-TB bracket and the appropriate mounting hardware.

Before You Begin

Hardware requirements for installation:

- One AP4000 access point
- One AH-ACC-BKT-AX-TB bracket
- Two screws
- Two anchors, if needed

About This Task

The access point can be installed on a wall or a solid surface using the AH-ACC-BKT-AX-TB bracket paired with two screws and screw-in anchors, if needed.

To install the access point:

Procedure

1. Place the AH-ACC-BKT-AX-TB bracket on a wall or a solid surface, and mark and drill two mounting holes.

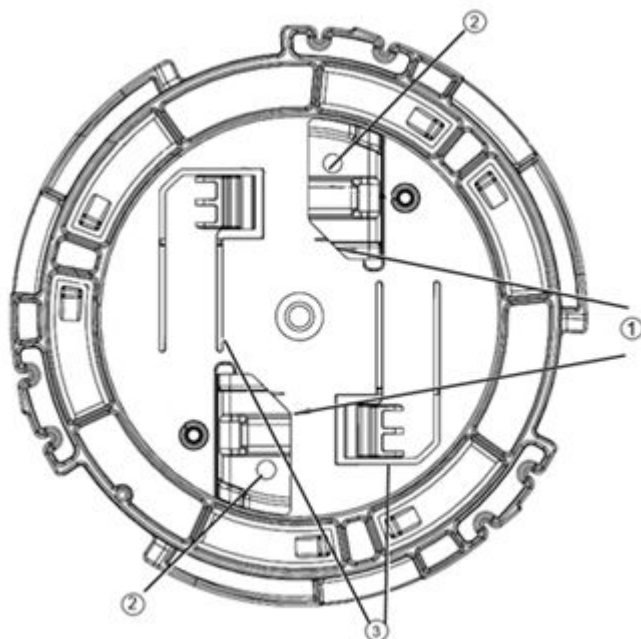


Figure 5: AH-ACC-BKT-AX-TB bracket with wall mounting holes

Callout	Description
1	Metal angled cuts
2	Wall mount holes
3	White tab

2. Attach the bracket to the wall using two screws.
Use screw in anchors, if needed.
3. Attach the Ethernet port cap to the access point Ethernet port.
4. Align the red dot on the back of the access point against the red dot on the bracket.



Note

The bracket has a center circular tip that fits into the circular dip on the back of the access point.

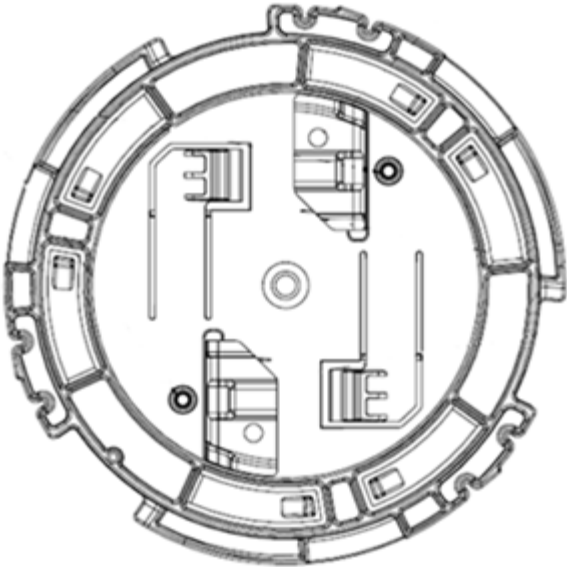
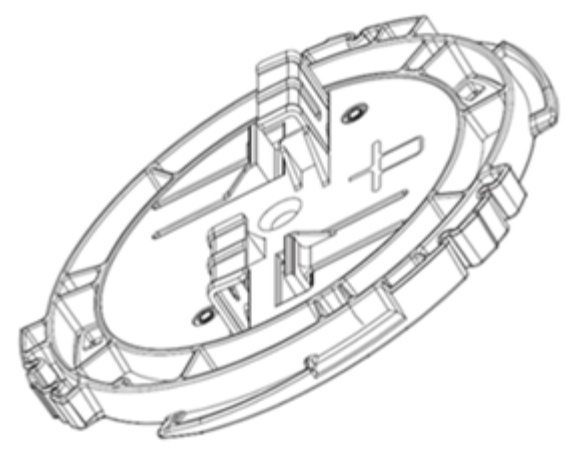
5. Press and rotate the access point 1/8th turn clockwise until it clicks into place on the bracket.
6. Attach the Cat6 RJ45 cable to the Eth0 or Eth1 port.
7. Place the cable cover over the Ethernet cable.

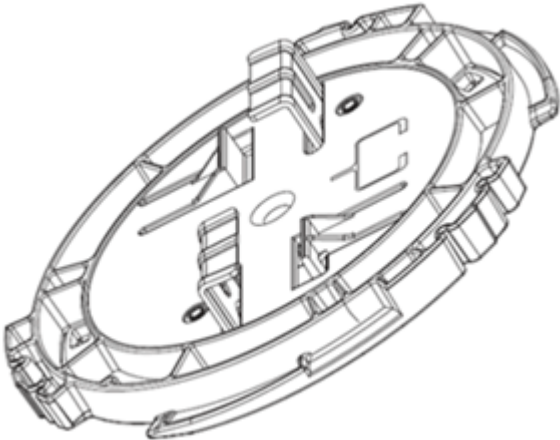
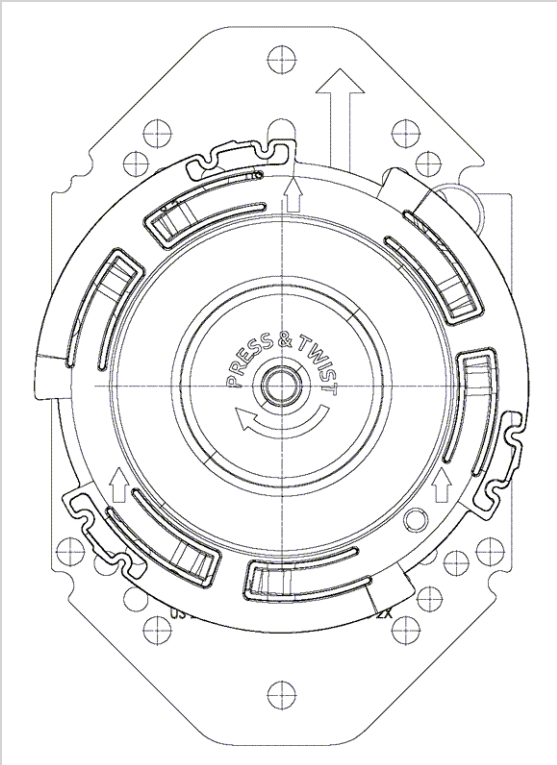
Non-Standard Ceiling Grid or Wall Installation

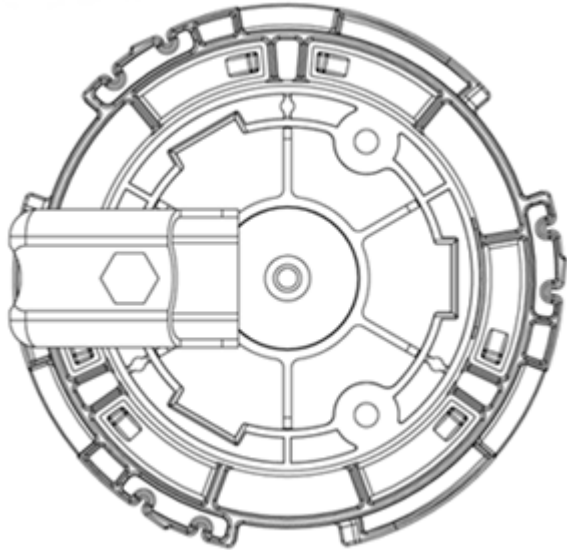
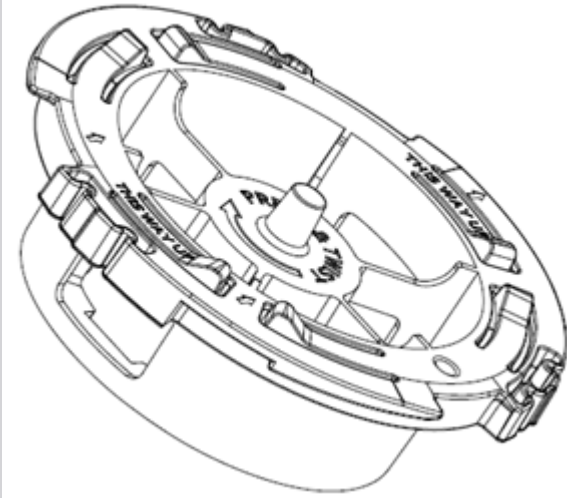
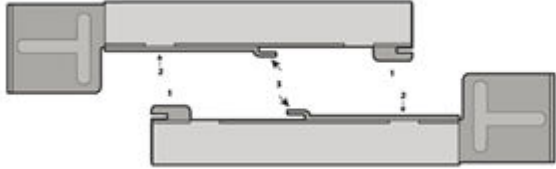


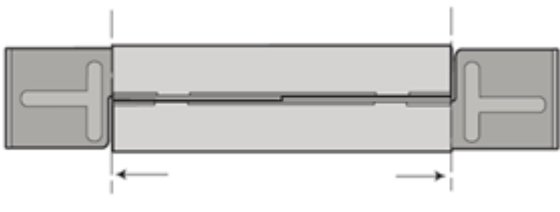
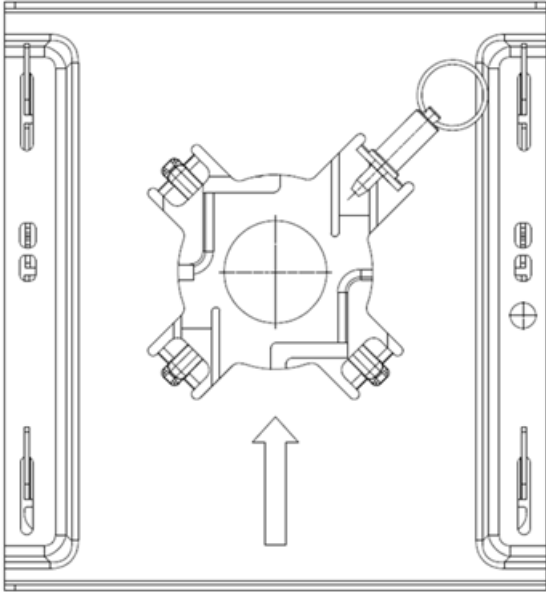
Note
For all non-standard ceiling grid installation or wall installation instructions, refer to the [Wi-Fi 6 802.11ax Access Points Accessories Guide](#).

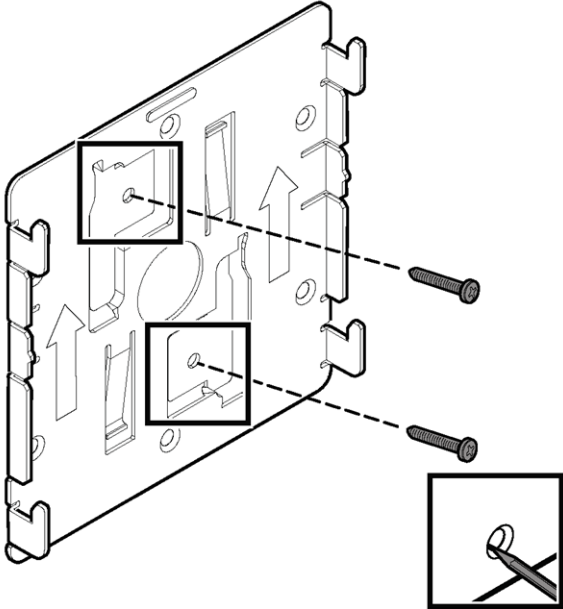
The access point can be installed on a non-standard ceiling grid using the following accessories:

Order part number	Description
AH-ACC-BKT-AX-TB Note: Only this bracket is included with the access point	Mounting bracket for 15/16 in. or 9/16 flat, T-bar ceiling grid, walls or solid surfaces with the associated screws and anchors 
AH-ACC-BKT-AX-IL	Mounting bracket for 9/16 in. wide T-bar with protrusion 


Order part number	Description
AH-ACC-BKT-AX-SL	<p>Mounting bracket for ceiling grids with a bottom opening of 1/8 in. to 1/4 in. wide (Armstrong ceiling model type Silhouette)</p> 
ACC-BKT-AX-JB	<p>Junction box or wall mounting for indoor access points</p> 

Order part number	Description
ACC-BKT-AX-BEAM	Beam mounting for indoor access points 
AH-ACC-BKT-AX-WL	Mounting bracket for direct-to-wall installations. Provides a gap from the wall that is about 1/4 in. 
AH-ACC-BKT-916-KIT	9/16 in. ceiling mount brackets for non-flat and protruded ceiling tiles. Use with AH-ACC-BKT-AX-TB 

Order part number	Description
ACC-BKT-TB-NF	<div>Adapter bracket for use with AH-ACC-BKT-TB with 15/16 in. wide T-bars on non-flat or protruded ceiling tiles</div> <div>A side-view technical drawing of a rectangular adapter bracket. It features a central horizontal slot and two T-shaped protrusions on the left and right ends. Arrows at the bottom indicate the direction of assembly or adjustment.</div>
ACC-BKT-AX-WNGADAPT	<div>Adapter bracket for use with cloud access point that has an existing WiNG mounting plate (#37201)</div> <div>A top-down technical drawing of a square mounting plate with a central circular hole. Four L-shaped brackets are attached to the corners of the plate. A large upward-pointing arrow is centered below the plate, indicating its orientation for installation.</div> <div>Figure 6: ACC-BKT-AX-WNGADAPT adapter bracket</div>

Order part number	Description
	 <p>Figure 7: WiNG metal bracket (#37201)</p>

 **Important**
The default bracket for wall installation is the ACC-BKT-AX-TB bracket.

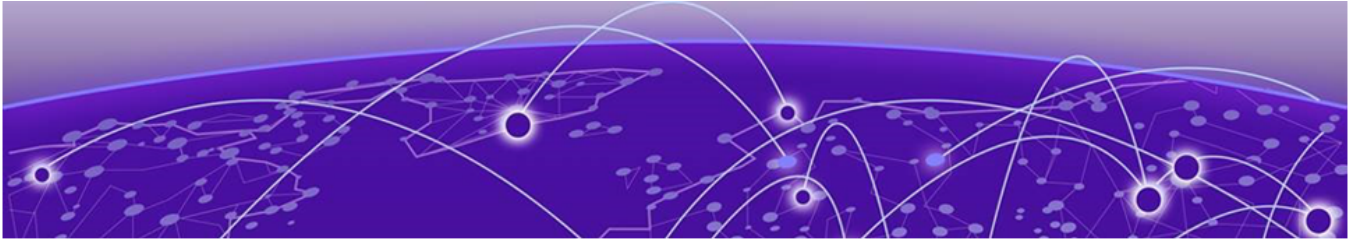
 **Note**
The AH-ACC-BKT-AX-WL bracket is generally for users who already have the -WL brackets.

Related Topics
https://documentation.extremenetworks.com/wireless/Accessories_Guide

Lock the Indoor Access Point after Installation

Learn how to lock the indoor access point using a Kensington lock.

If you are using an indoor access point, you can secure it by using the Kensington lock on the side of the access point. The security feature is used to prevent the access point from being removed from the mounting accessory.



Internal Antenna Information

The access point has internal antennas:

- 2 dual-band 2.4/5G antennas
- 2 6G band antennas
- 2 scanning 2.4/5G/6G antennas
- 1 BLE antenna



Regulatory and Compliance Information

[Safety Guidelines](#) on page 26

[Federal Communications Commission \(FCC\) Notice](#) on page 27

[Japan Indoor Use Statement](#) on page 27

[Japan Voluntary Control Council for Interference \(VCCI\) - Class B](#) on page 28

[European Union \(EU\) Radiation Warning Statement](#) on page 28

[Brazil Agência Nacional De Telecomunicações \(Anatel\) Statement](#) on page 28

[Mexico Compliance Statement](#) on page 28

[UK Statement and CE Statement](#) on page 28

[Industry Canada Statement](#) on page 29

[Taiwan Regulatory Statement](#) on page 30

[Hazardous Substances](#) on page 31

[European Waste Electrical and Electronic Equipment \(WEEE\) Notice](#) on page 31

[Supplement to Product Instructions](#) on page 32

[Declaration of Conformity in Languages of the European Community](#) on page 33

Learn about safety guidelines, compliance notices, and regulatory information pertaining to various countries in which the device can be used.

Safety Guidelines

Learn about the safety guidelines that 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, and label devices, systems, and circuits in accordance with established safety practices and standards. A qualified person understands the requirements and risks involved with installing the electrical equipment in accordance with national codes.

Federal Communications Commission (FCC) Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution**

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

This device is restricted for indoor use. This equipment may only be operated indoors. Operation outdoors is in violation of 47 U.S.C. 301 and could subject the operator to serious legal penalties. 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.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or Communications with unmanned aircraft systems.

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.

**Warning**

FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 44 cm between the radiator and your body.

Japan Indoor Use Statement

For Japan, the AP4000 access point is restricted for indoor use in the 5150-5350 MHz band only.

Japan Voluntary Control Council for Interference (VCCI) - Class B

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

European Union (EU) Radiation Warning Statement

Brazil Agência Nacional De Telecomunicações (Anatel) Statement

Details about certification from Brazil's local authority Agência Nacional De Telecomunicações (Anatel) for access point usage in Brazil.

Este produto está homologado pela Anatel, de acordo com os procedimentos regulamentados 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

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.

UK Statement and CE Statement

This equipment complies with the UK and EEA radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

The frequency and the maximum transmitted power in the UK and European Conformity are listed below:

- 2402–2480 MHz (LE): 9.63 dBm – AP4000 only
- 2405–2480MHz: 9.81 dBm

- 2412–2472 MHz: 19.96 dBm
- 5180-5240MHz: 22.95 dBm
- 5260-5320MHz: 22.98 dBm
- 5500-5700MHz: 22.98 dBm
- 5745-5825 MHz: 22.98 dBm
- 5955-6415MHz: 22.97 dBm

The device is restricted to indoor use only when operating in the 5925 to 6425 MHz frequency range.

Hereby, Extreme Networks declares that the radio equipment AP4000 is in compliance with Radio Equipment Regulations 2017.

Extreme Networks UK Address

Extreme Networks, UK Ltd.

250 Longwater Avenue Green Park

1st Floor

Reading, UK

Industry Canada Statement

Industry Canada indoor warning



Warning

For indoor use only.

Pour une utilisation en intérieur uniquement.



Warning

This device is restricted for indoor use.

This device complies with Innovation, Science and Economic Development (ISED) Canada's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit

accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

**Warning****IC Radiation Exposure Statement:**

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

**Warning****Déclaration d'exposition aux radiations:**

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 27 cm de distance entre la source de rayonnement et votre corps.

**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.

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.

This radio transmitter [IC: 4141B-AP4000] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed in Extreme Wireless AP4000 Access Point Installation Guide, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

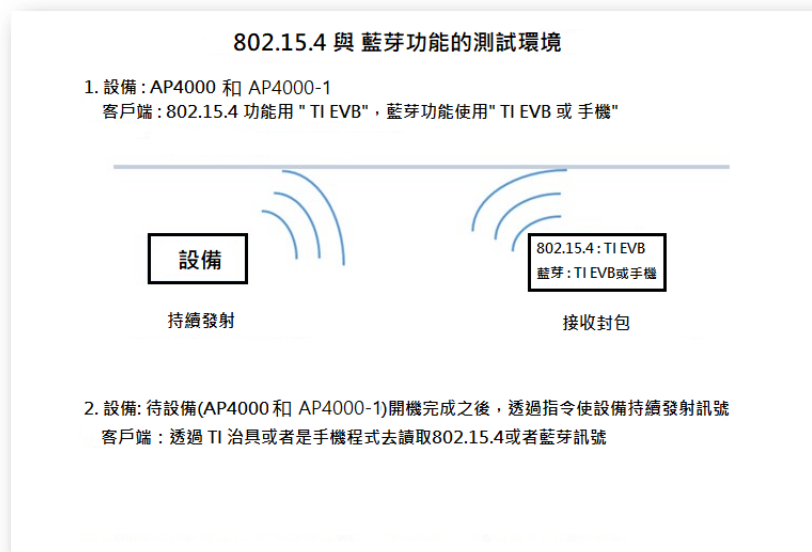
Le présent émetteur radio [IC: 4141B-AP4000] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne répertoriés dans le Guide d'installation des points d'accès sans fil extrêmes AP4000, avec le un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

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。

請至此連結 ☐ 讀中文 ☐ 明: <https://www.extremenetworks.com/support/documentation/>.

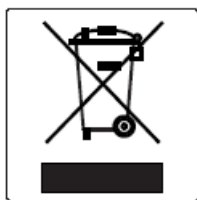
ExtremeWireless 802.11ax Wi-Fi 6E AP4000 and AP4000-1 無線接入點 無線電：3 個無線電 (2.4GHz、5 GHz 和 6 GHz); 1 個物聯網無線電 (BLE/802.15.4)



Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU and its amendments of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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.

For information about the available collection system, please contact Extreme Environmental Compliance at Green@extremenetworks.com.

Supplement to Product Instructions

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)	○	○	○	○	○	○
<p>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.</p> <p>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.</p> <p>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.</p>						

Declaration of Conformity in Languages of the European Community

English	Hereby, Extreme Networks declares that the radio equipment type (AP4000) 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 (AP4000) 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 (AP4000) 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 (AP4000) 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 AP4000 överensstämmer 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 (AP4000) 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 compliance@extremenetworks.com
German	Hiermit erklärt Extreme Networks die Übereinstimmung des "WLAN Wireless Controller bzw. Access Points" (AP4000) 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 compliance@extremenetworks.com
Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Extreme Networks ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN device (AP4000) 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 compliance@extremenetworks.com
Icelandic	Extreme Networks lýsir her með yfir að thessi bunadur, Radio LAN device (AP4000), uppfyllir allar grunnkröfur, sem gerðar eru í R&TTE tilskipun ESB nr 2014/53/EU. Fyrir fullan texta í ESB yfirlýsingu um samræmi, vinsamlegast hafðu samband við Extreme Reglufylgni á compliance@extremenetworks.com
Italian	Con la presente Extreme Networks dichiara che questo Radio LAN device (AP4000) 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 compliance@extremenetworks.com

Spanish	<p>Por medio de la presente Extreme Networks declara que el Radio LAN device (AP4000) 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 complancerequest@extremenetworks.com</p>
Portuguese	<p>Extreme Networks declara que este Radio LAN device (AP4000) 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 complancerequest@extremenetworks.com</p>
Malti	<p>Hawnhekk, Extreme Networks, jiddikjara li dan Radio LAN device (AP4000) jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 2014/53/EU. Għat-test sħiħ tad-dikjarazzjoni ta ' konformità tal-UE, jekk jogħġbok ikkuntattja lill-konformità regolatorja complancerequest@extremenetworks.com</p>



Index

A

- access point lock
 - Kensington lock 24
 - security bracket 24
 - security torx 24
- access point overview 9
- announcements 7

B

- box contents
 - AH-ACC-BKT-AX-TB bracket 15
 - AP4000 access point 15
 - quick reference guide 15

C

- CE statement 28
- conventions
 - notice icons 5
 - text 5

D

- documentation
 - feedback 8
 - location 6

E

- EU warning 28

F

- FCC statement 27
- features 10, 11
- feedback 8

I

- industry Canada statement 29
- install the access point 15
- internal antennas 25

J

- Japan class B statement 28
- Japan indoor use 27

M

- Mexico compliance statement 28
- micro USB console port 12

N

- New in this guide 9
- nonstandard ceiling install
 - ACC-BKT-AX-WNGADAPT 20
 - ACC-BKT-TB-NF 20
 - accessory information 20
 - AH-ACC-BKT-916-KIT 20
 - AH-ACC-BKT-AX-IL accessory 20
 - AH-ACC-BKT-AX-SL accessory 20
 - AH-ACC-BKT-AX-TB accessory 20
- notices 5

P

- power profile
 - power draw 12
- product announcements 7

R

- regulatory information, hazardous Substances 31
- Restriction of Hazardous Substances information 32

S

- safety guidelines 26
- solid surface installation 18
- standard ceiling install 16
- Status LED 13
- support, *see* technical support

T

- technical support
 - contacting 7

U

- UK statement 28

W

- wall installation 18

warnings 5