ExtremeWireless™ AP3916ic FCC/ROW Installation Guide

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For product support, phone the Global Technical Assistance Center (GTAC) at 1-800-998-2408 (toll-free in U.S. and Canada) or +1-408-579-2826. For the support phone number in other countries, visit: http://www.extremenetworks.com/support/contact/

For product documentation online, visit: https://www.extremenetworks.com/documentation/

For information, contact:
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San Jose, California 95119
USA

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Preface

Text Conventions

The following tables list text conventions that are used throughout this guide.

Table 1: Notice Icons

Icon	Notice Type	Alerts you to...
	General Notice	Helpful tips and notices for using the product.
	Note	Important features or instructions.
	Caution	Risk of personal injury, system damage, or loss of data.
	Warning	Risk of severe personal injury.
	New	This command or section is new for this release.

Table 2: Text Conventions

Convention	Description
`Screen displays`	This typeface indicates command syntax, or represents information as it appears 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 with brackets, such as **[Return]** 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.

Terminology

When features, functionality, or operation is specific to a switch family, such as ExtremeSwitching™ or Summit®, the family name is used. Explanations about features and operations that are the same across all product families simply refer to the product as the *switch*.

Providing Feedback to Us

We are always striving to improve our documentation and help you work better, so we want to hear from you! We welcome all feedback but especially want to know about:

- Content errors or confusing or conflicting information.
- Ideas for improvements to our documentation so you can find the information you need faster.
- Broken links or usability issues.

If you would like to provide feedback to the Extreme Networks Information Development team about this document, please contact us using our short online feedback form. You can also email us directly at internalinfodev@extremenetworks.com.

Getting Help

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

- GTAC (Global Technical Assistance Center) for Immediate Support
  - **Phone:** 1-800-998-2408 (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
  - **Email:** support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge — Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- The Hub — A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- Support Portal — Manage cases, downloads, service contracts, product licensing, and training and certifications.

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

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) 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

Related Publications

ExtremeWireless and ExtremeWireless AP documentation can be found on the Extreme Documentation page at: http://documentation.extremenetworks.com

The *ExtremeWireless User Guide* is recommended.

1 Overview

Features
Uplink and Power Connections

The AP3916ic is an 11ac Wave 2 AP with an integral security camera that lets you extend your Wireless LAN and provide simultaneous Wi-Fi service, BLE or 802.15.4 coverage and security in public spaces, such as classrooms and offices.

This fully featured access point (AP) can be mounted on the ceiling, wall or in a junction/gang box.

The integral ONVIF compatible security camera is connected to an internal wired Ethernet port.

The AP3916ic provides flow based data handling for the wireless and wired connections.

Note
For information about the minimum base firmware required, see the AP Hardware Matrix.

This AP model has the following specifications:

- Integrated 2MP camera with resolution up to 1080p, with manual view adjustment.
- Radios: Two concurrent Wi-Fi radios (2.4 GHz and 5 GHz) and one additional radio that can operate as Bluetooth or 802.15.4.
- Antennas: Four internal single band Wi-Fi antennas and one internal antenna for Bluetooth (BLE) or 802.15.4.
- LEDs: Six
- 802.3af compliant for full functionality. Optional AC adapter.
- Supports the 802.11ac and 802.11n wireless standards, with full backward compatibility with legacy 802.11abg.
- 10/100/1000 Mbps operation.
- Adjustable mounting bracket (included) for drop-ceiling T-bar rail.
- Optional mounts can be purchased separately for junction/gang box, indoor wall and solid ceiling installation.
- Enabled for ExtremeCloud™ support.

Features

The following features are on the front of the AP:

Item	Description
1 - Reset Button	The power reset button is recessed and located on the top of the AP. Use a tool to press the reset button.
2 - Cap	Remove the caps to access the thumbscrews.

Item	Description
3 - Thumbscrew	The thumbscrews let you adjust and set the tilt angle of the camera.
4 - Locking Pin	The locking pin lets you adjust and set the rotational position of the camera.

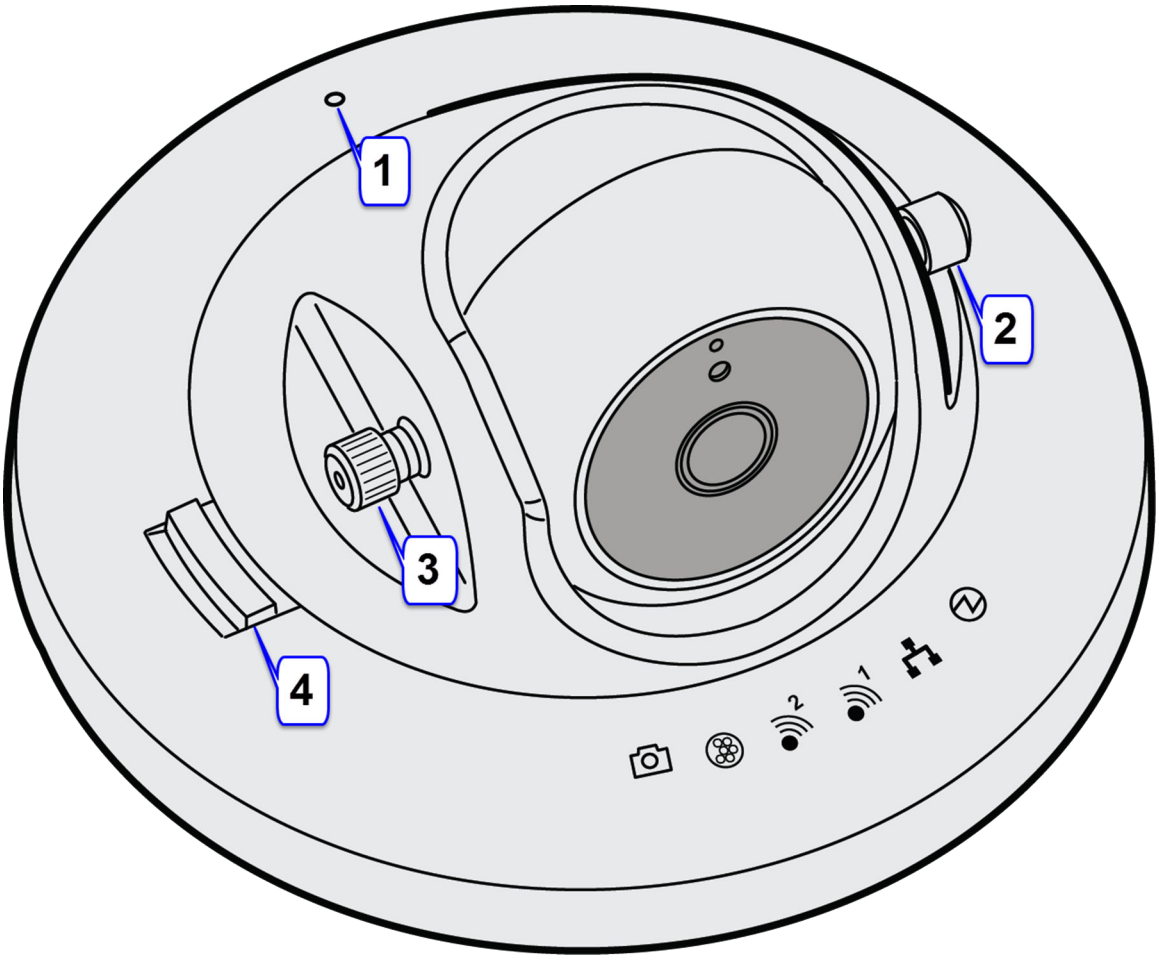

Figure 1: Front View of AP 3916ic

LEDs are located on the top cover of the AP.

Table 3: LEDs

Symbol	Description
	Camera
	IoT (BLE or 802.15.4)

Table 3: LEDs (continued)

Symbol	Description
	Radio 2 (2.4 GHz)
	Radio 1 (5 GHz)
	LAN 1 (Ethernet 1)
	Status

Uplink and Power Connections

The AP uses *PoE (Power over Ethernet)* or an external power supply, connecting from the back of the AP.

Table 4: Power Sources

Power Source	Description
LAN 1 uplink PoE	The LAN 1 option requires an 802.3af power source.
External 12V DC power supply	This AP can optionally be powered by an external DC power supply plugged into an AC source. Plug the supply's input jack into the DC-In port.

To power the AP with the optional external 12V DC power supply (30512, WS-PSI12V-MR2), plug the power cord into the power connector on the back of the AP (Figure 2).

Note
LAN connectors with shrouds will not fit into the ports. Remove the shroud or use an optional jumper cable.

2 Installation Process

Caution
The unit and all interconnected equipment must be installed indoors within the same building, including all *PoE*-powered network connections, as described by Environment A of the IEEE 802.3af standard.

Follow these procedures to install the AP3916ic:

1 Verify the box contents.
2 Review the safety guidelines.
3 Mount the bracket to a drop-ceiling. Alternatively, you can mount the AP to a wall, solid ceiling, or a junction/gang box.

Note
An optional bracket P/N 30516 (WS-MBI-WALL04 wall mounting bracket) is sold separately. This bracket is used for mounting the AP on a solid ceiling, indoor wall, or junction/gang box.

4 Adjust the camera.
5 Configure the camera software.

Verifying the Box Contents

Before you install the AP3916ic, make sure that you have all of the necessary parts.

1 Verify that the box contains the following items:

Table 5: AP3916ic Box Contents

Quantity	Item
1	AP3916ic Quick Reference
1	ExtremeCloud™ Quick Start Card
1	WS-AP3916ic AP
1	Adjustable mounting bracket for drop-ceiling T-bar rail

Table 5: AP3916ic Box Contents (continued)

Quantity	Item
2	Screw-in plastic wall anchors
2	Pan-head screws for optional wall mounting
1	Security Torx screwdriver/bit

Note
You will also need to provide your own Ethernet or *PoE* cable.

2 Perform a visual inspection of the AP for any signs of physical damage. Contact Extreme Networks if there are any signs of damage.

Note
Before mounting the AP3916ic, read Safety Guidelines.

Safety Guidelines

This section contains notices that you must adhere to ensure your personal safety and to prevent any damage to the equipment.

Caution
The unit and all interconnected equipment must be installed indoors within the same building, including all *PoE*-powered network connections as described by Environment A of the IEEE 802.3af standard.

Mounting to a Drop Ceiling

Use the T-bar bracket to mount the AP to a drop ceiling.

1 Remove the ceiling panels around the drop ceiling T-bar rail and verify that the LAN 1 Ethernet cable can reach the AP at the mounting point.

2 Connect the LAN/Ethernet cable (and power supply cable, if applicable) to the back of the AP and then insert the cables into the cable holding/strain relief slot.

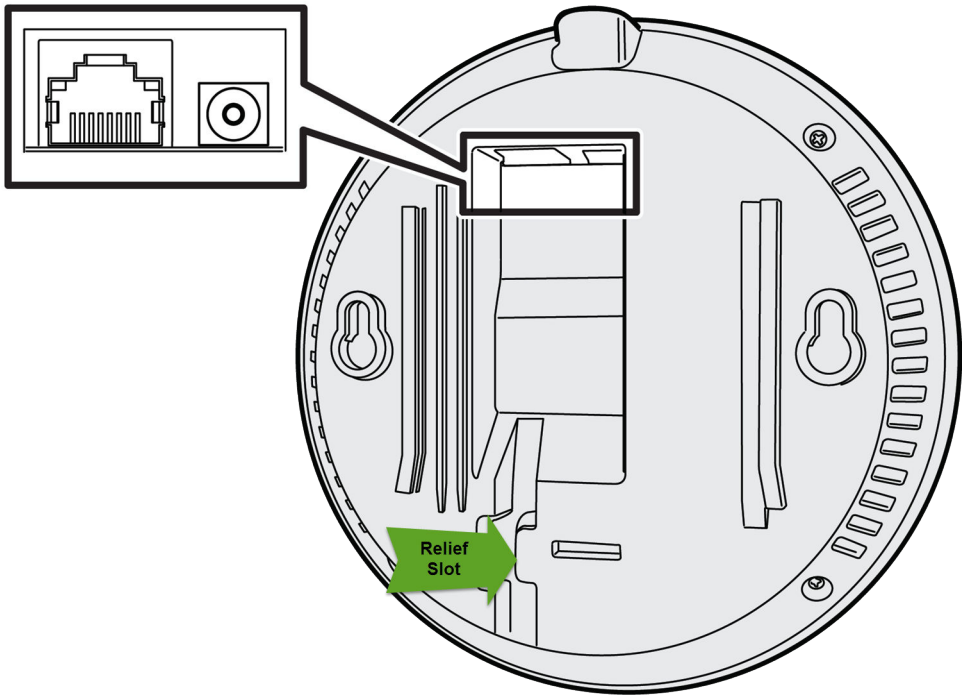

Figure 2: Rear View of AP

Item	Description
	LAN Ethernet Port
	External Power DC 12V Connector

3 If your LAN does not have *PoE*, you must also connect to an AC power source by plugging the external 12V DC adapter power cord into the power connector on the back of the AP. (There is no wall mount bracket for the 12V DC power supply.) Then plug the other end of power cord into the AC electrical outlet.

4 Slide the T-bar ceiling mount bracket base into the access point's metal base. The locking tab fits into the grooves in the outside center of the back of the AP.

5 Slightly lift the movable T-bar locking tab to increase the space between the stationary and the slider T-bar sides of the bracket. Then hook the stationary end of the T-bar bracket onto the T-bar, as shown in the following figure.

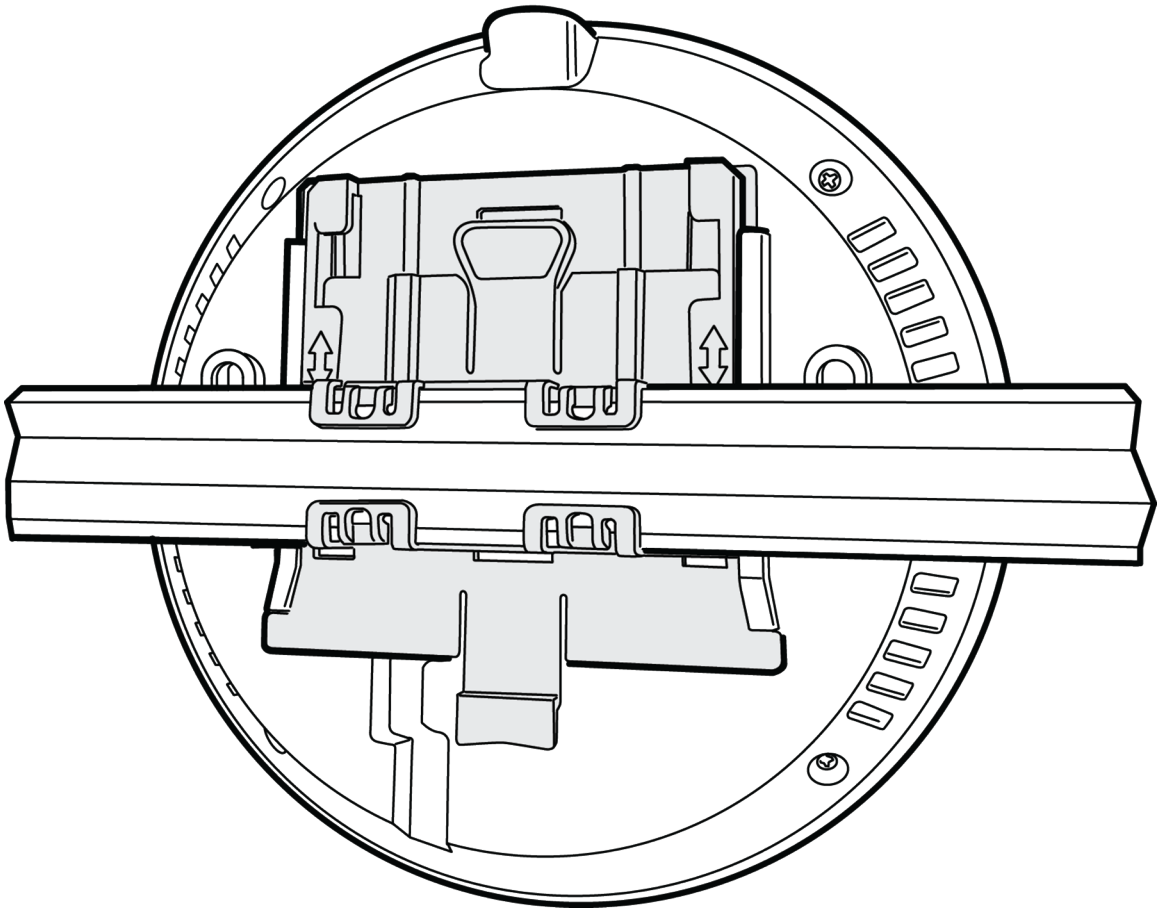

Figure 3: Mounting Bracket on T-bar

6 While holding the AP with one hand, reach the other hand over the T-bar and grasp both the stationary and movable sides of the bracket. Push the bracket parts together so they both grasp the T-bar and the locking tab clicks into place.

7 While still holding the AP, rock it back and forth to ensure that it is securely mounted.

8 (Optional) Attach the Kensington lock and cable (or equivalent) to secure the AP.

Mounting to a Flat Ceiling, Wall, or Junction/Gang Box

Mounting the AP to a flat ceiling, wall, or junction/gang box requires the WS-MBI-WALL04 bracket, which must be purchased separately.

Note
If you are not installing on a double wide junction/gang box, then you can optionally break off the four corners along the cut lines.

1 Install the WS-MBI-WALL04 onto a wall, junction/gang box, or ceiling with 2 or 4 screws. The 2 screws should be as far apart as possible and must be on opposite sides of the large opening in the approximate center.

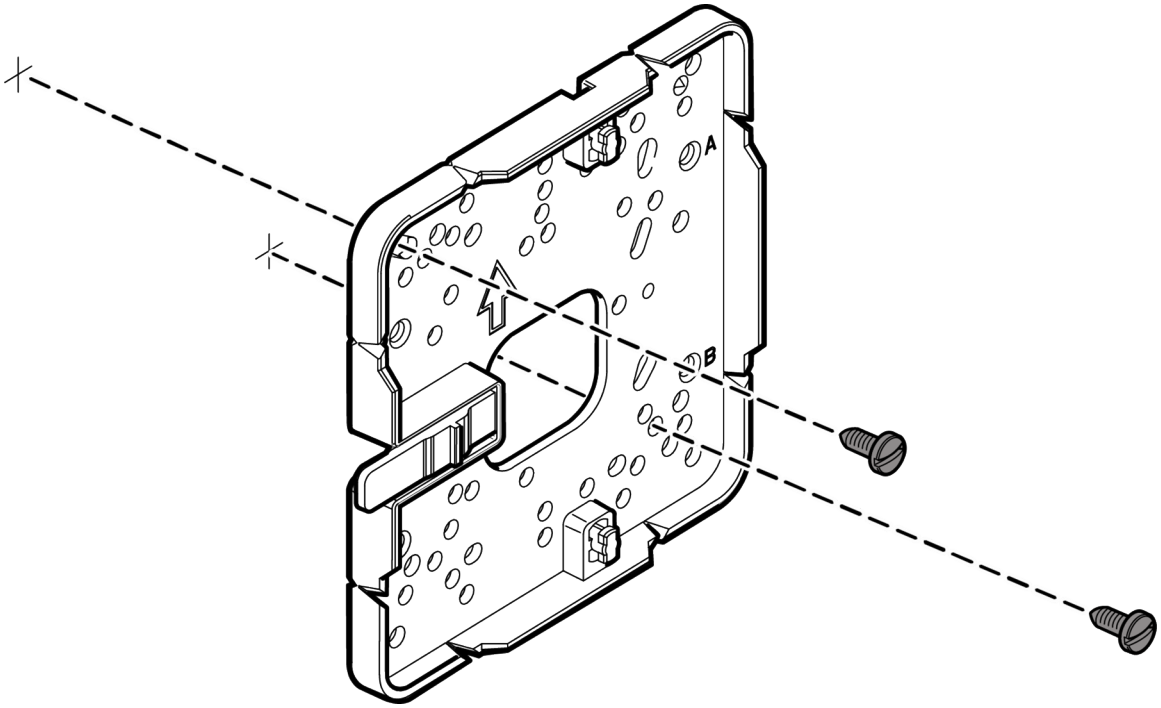

Figure 4: WS-MBI-WALL04 Bracket

- If attaching the bracket to a plaster wall, or ceiling, it is recommended to use the holes marked “A” or “B” along with screw-in type anchors.
- If attaching the bracket to junction/gang box, it is recommended to use pan-head machine screws.

2 Connect the LAN/Ethernet cable (and power supply cable, if applicable) to the back of the AP and then insert the cables into the cable holding/strain relief slot.

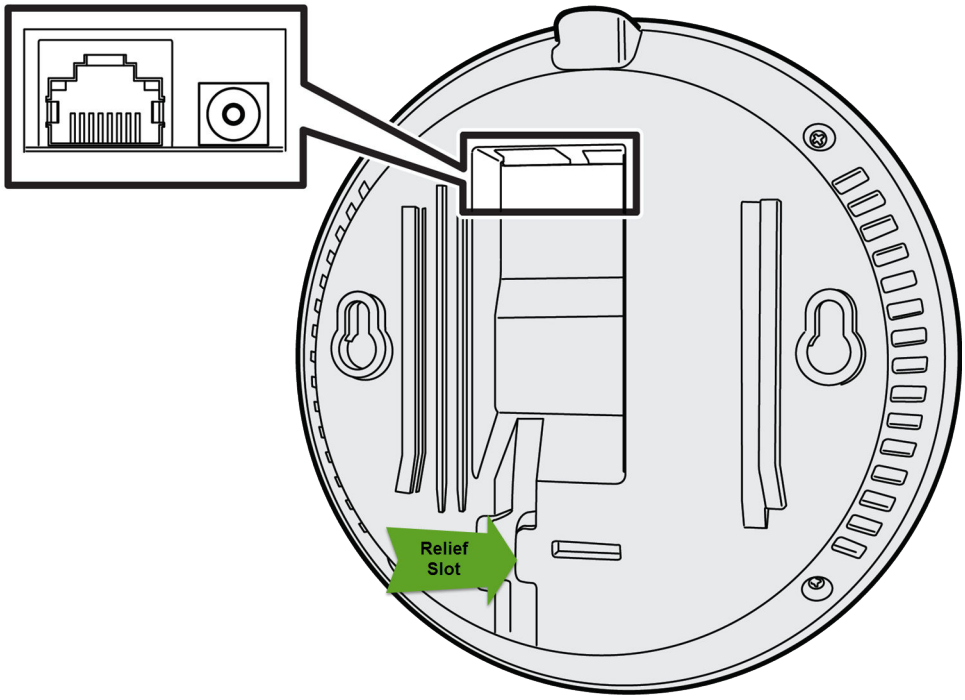

Figure 5: Rear View of AP

Item	Description
	LAN Ethernet Port
	External Power DC 12V Connector

3 Align, and insert, the 2 keyhole receptacles on the AP3916ic with the 2 keyhole posts on the WS-MBI-WALL04.

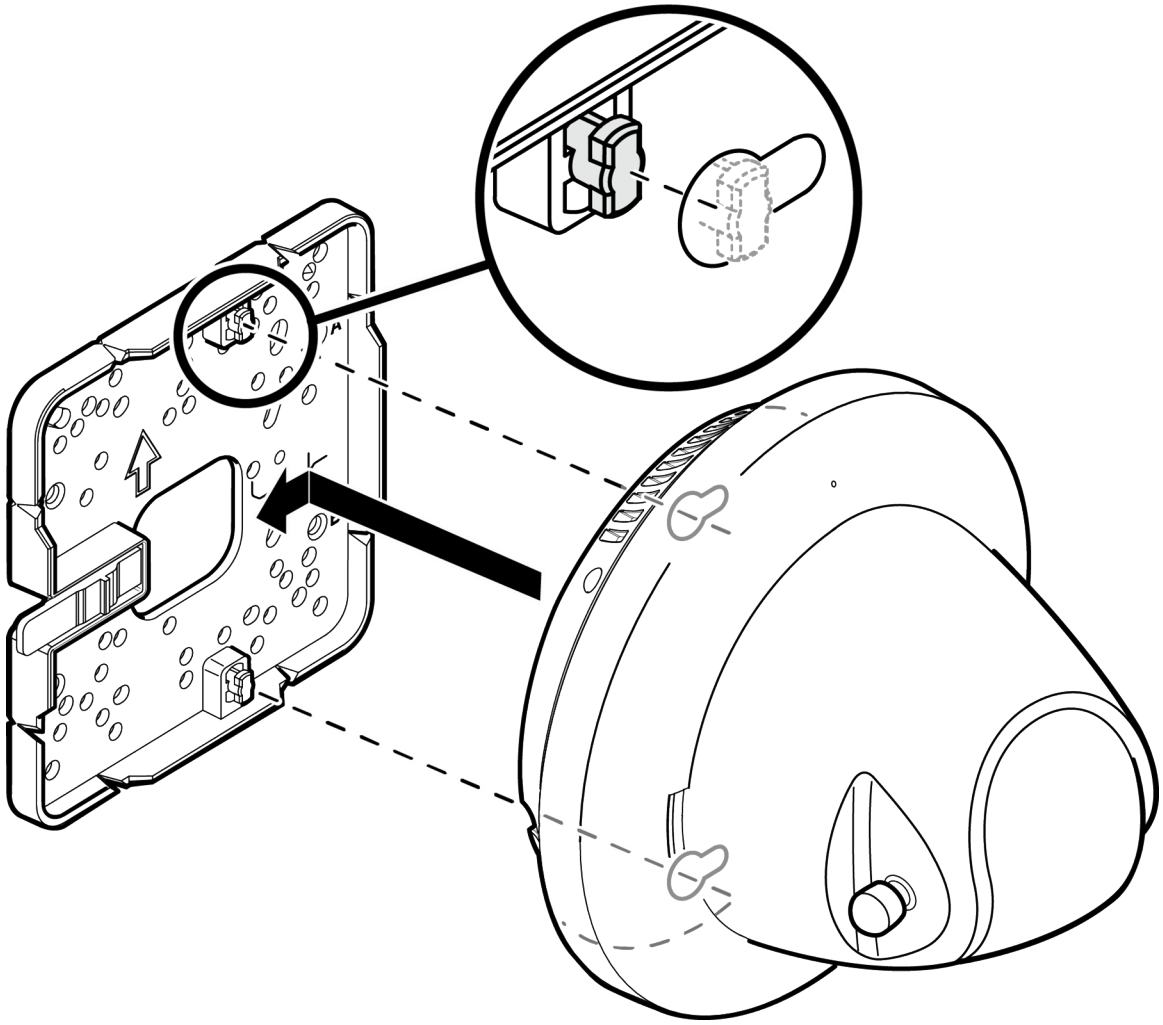

Figure 6: Attaching AP to Wall Bracket

4 Push the AP3916ic toward the left until the plastic locking mechanism clicks in place.

5 Adjust the camera and set up the camera viewing software if desired.

Adjusting the Camera

After the AP is mounted, adjust the camera as needed:

1 To adjust the rotational camera movement, pull and hold the rotating locking pin outwards while rotating the camera. Release the locking pin when the camera is positioned.

2 To adjust the tilt movement, remove the thumbscrew caps and loosening the thumbscrews. Then, without touching the camera face, move the camera to the desired tilt angle. Tighten the thumbscrews and put the caps back on. Torque the screws to 7.0 in-lbs.

3 Remove the plastic protective cover from the face of the camera.

More Information:

- Features on page 6

Software Dependencies and Configuration

The camera functionality is represented as an attached client to the AP. The IP address from the camera can be retrieved from the Client report in the ExtremeWireless user interface.

A Port/User specific policy can be assigned to the camera function, such as mapping all camera interactions like video streaming or management to its own network segment or *VLAN (Virtual LAN)*.

The ONVIF compliant camera is discoverable using standard ONVIF/IP camera methods. ONVIF utilizes multicast as the means of advertising and inquiring about device presence. Therefore, in the ExtremeWireless user interface, the default topology of the role associated to the camera port must be adjusted to allow for multicast. In the **`Edit Topology`** dialog box, we recommend configuring **All Multicast (0.0.0.0/0)** in the **Group** field.

3 Specifications

This appendix lists the specifications for the ExtremeWireless™ Indoor Access Point AP3916ic.

Table 6: Specifications for the AP3916ic

Item	Specification
AP Part Number: 31034	WS-AP3916ic-FCC
AP Part Number: 31035	WS-AP3916ic-ROW
Enclosure material	AP enclosure is not plenum rated.
Power source	Power is provided by Power-over-Ethernet 802.3af. Optional AC power adapter (30512) can be purchased separately. The adapter includes six individual AC adapter clips for different global regions.
Power consumption	See Data Sheet.
Camera	Integrated 2MP camera with resolution up to 1080p with manual view adjustment.
Antenna	Four single band Wi-Fi internal antennas and one internal antenna that can operate as Bluetooth (BLE) or 802.15.4.
Uplink interface	One 10/100/1000BT Ethernet port
RoHS compliant	Yes
Radio configuration	Dual Band Dual Concurrent 802.11ac and 802.11n Radio 1: 5 GHz; 2x2:2; IEEE 802.11 ac (up to 886 Mbps per radio) Radio 2: 2.4 GHz; 2x2:2; IEEE 802.11n (up to 300 Mbps per radio) Legacy 802.11abg mode support Integrated sensor radio that operates as Bluetooth 4.0 radio or operates as 802.15.4 (one at a time)
Water/dust proof ratings	NEMA1 or IP30
Operating temperature	0°C to 40°C
Non-operating transportation/storage	-40°C to 70°C (-40°F to 158°F)
Altitude (feet)	>6,500 feet; safety approved to 2,000 meters
Relative humidity (% RH)	0% to 95% (non-condensing)
Wind	Not applicable. The AP3916ic is an indoor-only model.
ExtremeCloud™ enabled	Yes

4 Regulatory Information

United States

FCC Declaration of Conformity

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.

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:

- This device may not cause harmful interference
- 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 AP is for indoor use only.

USA Conformance Standards

This equipment meets the following conformance standards:

Safety

- UL 60950-1
- CSA 22.2 No.60950-1-03

EMC

- FCC CFR 47 Part 15, Class B
- FCC Subpart C 15.247
- FCC Subpart E 15.407
- RSS-247
- ICES-003
- EN 301 893
- EN 300 328
- EN 301 489 1 & 17
- EN 60601-1-2
- EN 50385
- EN 55022 (CISPR 22)
- AS/NZS3548 (CISPR22)
- Extreme Networks #QMS-00102

Other

- IEEE 802.11ac (5 GHz)
- IEEE 802.11n (2.4 GHz)
- IEEE 802.3at (*PoE*)
- IEEE 802.3af (PoE)

Warning

The ExtremeWireless™ AP3916ic must be installed and used in strict accordance with the manufacturer's instructions as described in this guide and related documentation for the device to which the AP3916ic is connected. Any other installation or use of the product violates FCC Part 15 regulations. This Part 15 radio device operates on a non-interference basis with other devices operating at the same frequency when using the antennas provided or other Extreme Networks-certified antennas. Any changes or modifications to the product not expressly approved by Extreme Networks could void the user's authority to operate this device. For the product available in the USA market, only channels 1 to 11 can be operated. Selection of other channels in the 2.4 GHz band is not possible.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiated exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 21 cm between the radiator and your body.

End users must follow the specific operating instructions for satisfying RF exposure compliance. This device has been tested and has demonstrated compliance when simultaneously operated in the 2.4 GHz and 5 GHz frequency ranges. This device must not be co-located or operated in conjunction with any

other antenna or transmitter. The radiated output power of the AP3916ic is below the FCC radio frequency exposure limits as specified in “Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields” (OET Bulletin 65, Supplement C).

Professional Installation Notice

To comply with FCC part 15 rules in the United States, the system must be professionally installed to ensure compliance with the Part 15 certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States. The use of the system in any other combination (such as co-located antennas transmitting the same information) is expressly forbidden.

Canada

Industry Canada Compliance Statement

This device complies with RSS-247 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet 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.

Caution

1 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;
2 High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Caution
Avertissement:

1 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;
2 De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu’ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

FOR MOBILE DEVICE USAGE

Radiation Exposure Statement: This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 21 cm between the radiator & your body.

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 21 cm de distance entre la source de rayonnement et votre corps.

Canada Conformance Standards

This equipment meets the following conformance standards:

Safety

- UL 60950-1
- CSA 22.2 No.60950-1-03

EMC

- FCC CFR 47 Part 15, Class B
- FCC Subpart C 15.247
- FCC Subpart E 15.407
- RSS-247
- ICES-003
- EN 301 893
- EN 300 328
- EN 301 489 1 & 17
- EN 60601-1-2
- EN 50385
- EN 55022 (CISPR 22)
- AS/NZS3548 (CISPR22)
- Extreme Networks #QMS-00102

Other

- IEEE 802.11ac (5 GHz)
- IEEE 802.11n (2.4 GHz)
- IEEE 802.3at (*PoE*)
- IEEE 802.3af (PoE)

European Community

Note

This product complies with the requirements of Directive 2011/65/EU 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.

The ExtremeWireless™ AP3916ic is designed for use in the European Union and other countries with similar regulatory restrictions where the end user or installer is allowed to configure the equipment for operation by entry of a country code relative to a specific country. After the country code is selected, the equipment will use the proper frequencies and power outputs for that country code.

The AP3916ic is intended for indoor use and must be installed in a proper indoor location. Contact local Authority for procedure to follow and regulatory information. For more details on legal combinations of frequencies, power levels and antennas, contact Extreme Networks. Declaration of Conformity with R&TTE Directive of the European Union 1999/5/EC The following symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC).

CE ①

Declaration of Conformity in Languages of the European Community

The full text of the EU declaration of conformity is available at the following Internet address: http://www.extremenetworks.com/

Note
Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

English	Hereby, Extreme Networks, Inc. declares that the radio equipment type Wireless LAN Access Point is in compliance with Directive 1999/5/EC.
Finnish	Valmistaja Extreme Networks vakuuttaa täten että Radio LAN device tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Dutch	Hierbij verklaart Extreme Networks dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Bij deze verklaart Extreme Networks dat deze Radio LAN device voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
French	Par la présente Extreme Networks déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/ CE. Par la présente, Extreme Networks déclare que ce Radio LAN device est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.
Swedish	Härmed intygar Extreme Networks att denna Radio LAN device står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Danish	Undertegnede Extreme Networks erklærer herved, at følgende udstyr Radio LAN device overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
German	Hiermit erklärt Extreme Networks die Übereinstimmung des "WLAN Wireless Controller bzw. Access Points" mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG.
Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Extreme Networks ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN device ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Icelandic	Extreme Networks lysir her med yfir að thessi bunadur, Radio LAN device, uppfyllir allar grunnkrofur, sem gerdar eru i R&TTE tilskipun ESB nr 1999/5/EC.
Italian	Con la presente Extreme Networks dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Spanish	Por medio de la presente Extreme Networks declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Portuguese	Extreme Networks declara que este Radio LAN device está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Malti	Hawnhekk, Extreme Networks, jiddikjara li dan Radio LAN device jikkonforma mal-htigijiet essenzjali u ma provvedimenti ohrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

European Conformance Standards

This equipment meets the following conformance standards:

Safety

- EN 60950-1 To be included in CB Scheme report and certificate

EMC (Emissions/Immunity)

- FCC CFR 47 Part 15, Class B
- FCC Subpart C 15.247
- FCC Subpart E 15.407
- RSS-247
- ICES-003
- EN 301 893
- EN 300 328
- EN 301 489 1 & 17
- EN 60601-1-2
- EN 50385
- EN 55022 (CISPR 22)
- AS/NZS3548 (CISPR22)
- Extreme Networks #QMS-00102

Other

- IEEE 802.11ac (5 GHz)
- IEEE 802.11n (2.4 GHz)
- IEEE 802.3at (*PoE*)
- IEEE 802.3af (PoE)

European Waste Electrical and Electronic Equipment (WEEE) Notice

In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

1 The symbol above indicates that separate collection of electrical and electronic equipment is required.
2 When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
3 It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
4 It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated.

For information about the available collection system, please contact Extreme Customer Support at 353 61 705500 (Ireland).

European Spectrum Usage Rules

The AP configured with approved internal or external antennas can be used for indoor and outdoor transmissions throughout the European community as displayed in the following table. Some restrictions apply in Belgium, France, Greece, and Italy.

Table 7: European Spectrum Usage Rules

Country	5.15-5.25 (GHz) Channels: 36,40,44,48	5.25-5.35 (GHz) Channels: 52,56,60,64	5.47-5.725 (GHz) Channels: 100,104,108,112,116, 132,136,140	2.4-2.4835 (GHz) Channels: 1 to 13 (Except Where Noted)
Austria	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Belgium	Indoor only	Indoor only	Indoor or outdoor *	Indoor or outdoor
Bulgaria	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Croatia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Cyprus	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Czech Rep.	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Denmark	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Estonia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Finland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor

Table 7: European Spectrum Usage Rules (continued)

Country	5.15-5.25 (GHz) Channels: 36,40,44,48	5.25-5.35 (GHz) Channels: 52,56,60,64	5.47-5.725 (GHz) Channels: 100,104,108,112,116, 132,136,140	2.4-2.4835 (GHz) Channels: 1 to 13 (Except Where Noted)
France	Indoor only	Indoor only	Indoor or outdoor	Indoor only
Germany	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Greece	Indoor only	Indoor only	Indoor (Outdoor w/ license)	Indoor (Outdoor w/ license)
Hungary	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Iceland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Ireland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Italy	Indoor only	Indoor only	Indoor or outdoor	Indoor (Outdoor w/ license)
Latvia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Liechtenstein	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Lithuania	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Luxembourg	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Malta	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Netherlands	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Norway	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Poland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Portugal	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Romania	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Slovak Rep.	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Slovenia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Spain	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Sweden	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Switzerland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Turkey	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
U.K.	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor

Note

Belgium requires notifying the spectrum agency if deploying > 300 meter wireless links in outdoor public areas.

Certifications of Other Countries

This access point has been certified for use in various other countries. When the correct country code is selected, the Wireless AP automatically uses the proper frequencies and power outputs for that country

code. It is the responsibility of the end user to select the proper country code for the country the device will be operated within or run the risk violating local laws and regulations.

Other Country Specific Compliance Standards, Approvals, and Declarations

- IEC 60950-1 CB Scheme Report and Certificate
- EN 60950-1 To be included in CB Scheme report
- UL 60950-1
- CSA 22.2 No.60950-1-03
- AS/NZS 60950.1 To be included in CB Scheme Report

产品说明书附件
Supplement to Product Instructions

部件名称 (Parts)	有毒有害物质或元素 (Hazardous Substance)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr^{6+})	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 (Metal Parts)	×	○	○	×	○	○
电路模块 (Circuit Modules)	×	○	○	×	○	○
电缆及电缆组件 (Cables & Cable Assemblies)	×	○	○	×	○	○
塑料和聚合物部件 (Plastic and Polymeric parts)	○	○	○	○	○	×
电路开关 (Circuit Breakers)	○	○	×	×	○	○

○: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T 11363-2006 standard.

×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006 标准规定的限量要求。
Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T 11363-2006 standard.

对销售之日的所售产品, 本表显示,
凯创供应链的电子信息产品可能包含这些物质。注意:在所售产品中可能会也可能不会含有所有所列的部件。
This table shows where these substances may be found in the supply chain of Extreme electronic information products, as of the date of sale of the enclosed product. Note that some of the component types listed above may or may not be a part of the enclosed product.

除非另外特别的标注, 此标志为针对所涉及产品的环保使用期标志. 某些零部件会有一个不同的环保使用期(例如, 电池单元模块)贴在其产品上.
此环保使用期限只适用于产品是在产品手册中所规定的条件下工作.
The Environmentally Friendly Use Period (EFUP) for all enclosed products and their parts are per the symbol shown here, unless otherwise marked. Certain parts may have a different EFUP (for example, battery modules) and so are marked to reflect such. The Environmentally Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.

NCC Statement

低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，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。

第十四條 低功率射頻電機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。
前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機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。

在 5.25-5.35 秭赫頻帶內操作之無線資訊傳輸設備，限於室內使用。

電磁波曝露量 MPE 標準值 1mW/cm^2，送測產品實測值為 0.315 mW/cm^2

Glossary

Power over Ethernet

The PoE standard (IEEE 802.3af) defines how power can be provided to network devices over existing Ethernet connections, eliminating the need for additional external power supplies.

Virtual LAN

The term VLAN is used to refer to a collection of devices that communicate as if they are on the same physical LAN. Any set of ports (including all ports on the switch) is considered a VLAN. LAN segments are not restricted by the hardware that physically connects them. The segments are defined by flexible user groups you create with the CLI.