

Installing the ExtremeWireless Indoor AP3912i Access Point

Overview of the AP3912i

The AP3912i is a wall plate 11ac AP that lets you extend your Wireless LAN. This model is ideal for installations that have unused ports on existing Ethernet jacks because it has minimal or no impact on the configuration of the infrastructure switches (with only the requirement to enable one extra port for the AP). Pass-through ports allow wired devices, such as IP phones, to be connected. This wall plate AP replaces existing Ethernet wall plates, eliminating the need for mounting brackets. The AP3912i is designed with four single-band internal antennas for indoor use only. The AP enclosure is not plenum rated. (Operating temperatures are 0°C-40°C.)

Note: The AP3912i requires a minimum base firmware of 10.11.02.

The AP3912i model has the following specifications:

- Radios: Two concurrent WiFi radios (2.4 GHz and 5 GHz) and one radio that can operate as Bluetooth or ZigBee.
- LEDs: 6 (Figure 1)
- Power: 802.3at (PoE+) compliant for full functionality
- The AP3912i supports the 802.11ac and 802.11n wireless standards, with full backward compatibility with legacy 802.11abg.
- The AP3912i interoperates fully with Wireless LAN, including support for VoWLAN, branch office mode, guest services, RTLS, availability and mobility.
- Enabled for use with an ExtremeCloud™ entitlement

For detailed installation information about the AP3912i, see the *ExtremeWireless AP3912i Installation Guide*.

Power Requirements for the PSE Port

The AP3912i uses Power over Ethernet (PoE) as follows.

Table 1 Power Sources

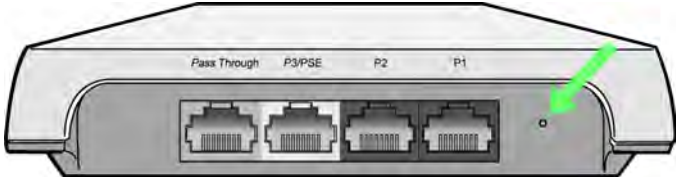
Power Source	Description
PoE 802.3at	Power is enabled on the Client PSE port and the PSE LED is green.
PoE 802.3af	Power is disabled on the Client PSE port and the LED is off (not green).

Power Connections and Reset Button

The AP3912i has three LAN ports (P1, P2, and P3/PSE), and one pass-through port. On the pass-through port, power and connection attributes (such as speed and duplex) of devices are dictated by the characteristics of the corresponding switch model and by the port that the backend pass-through port is connected to.

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

Figure 1 Power Connections and Reset Button

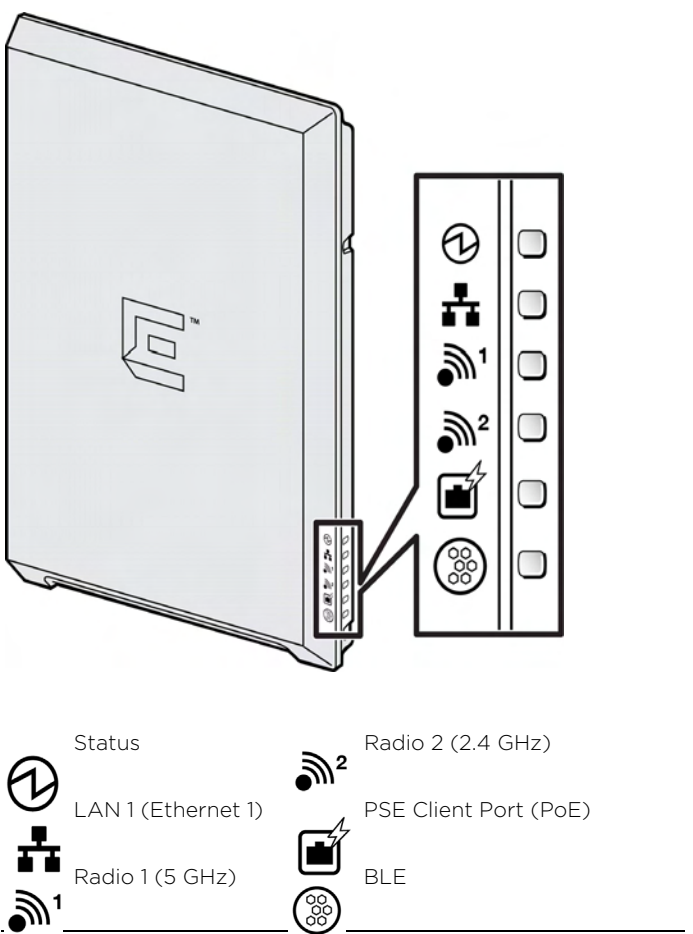


The Reset button (Figure 1) is to the right of the power connections.

LEDs

LEDs are located on one side of the AP.

Figure 2 LEDs on Side of AP



Verifying the AP3912i Box Contents

Verify the contents of the box as listed in the following table:

Table 2 Contents of the AP3912i Box

Quantity	Item
1	AP3912i Quick Reference
1	ExtremeCloud Quick Start Card
1	WS-AP3912i AP
1	Wall plate bracket
The following hardware is included:	
2	Screw-in wall anchors
2	Pan-head machine screws
2	Flat-head wood screws

Note: Before mounting the AP3912i, read the RF Safety Distance section.

Mounting and Connecting the AP3912i

Electrical Hazard: Only qualified personnel should perform installation procedures.

Use these instructions as guidelines for mounting and connecting the AP3912i easily and safely. The installation of the AP3912i should be performed by a professional installer

to ensure proper operation and compliance with local safety guidelines.

Attach the AP3912i to an indoor wall or junction/gang box only. The wall plate bracket is included with the AP box contents.

Figure 3 Mounting Bracket

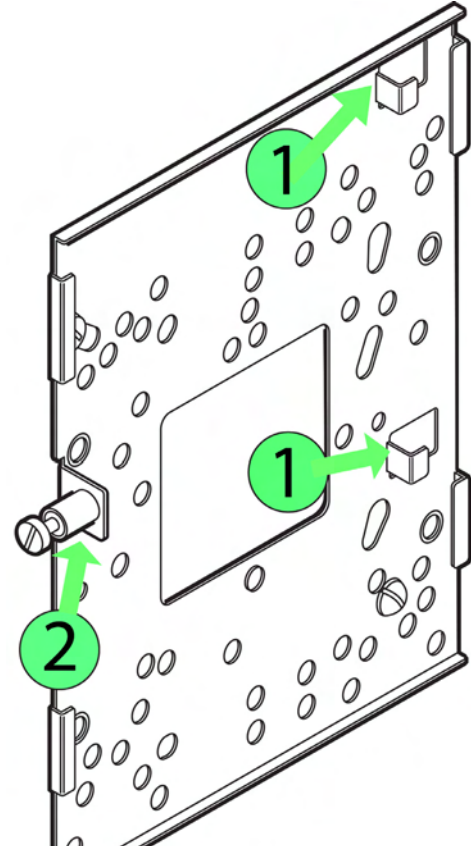


Table 3

Number	Description
1	AP Mounting Tab
2	Captive Screw

Mounting the AP3912i to a Wall

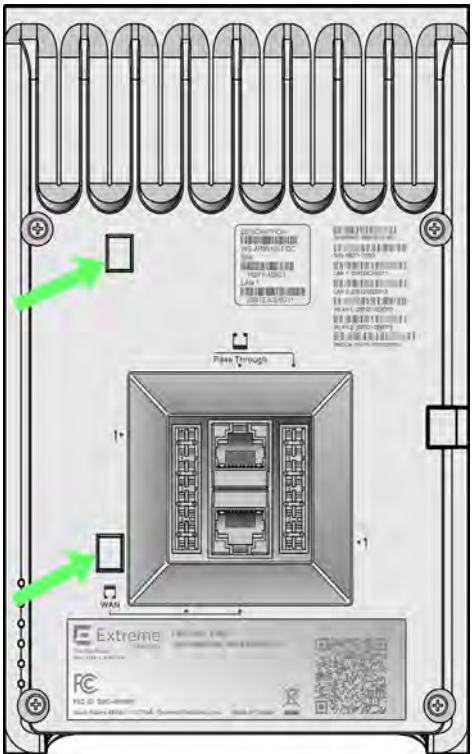
- 1 Using the mounting bracket (Figure 3) as a guide, choose a location where it is feasible to place the AP's center. The bracket should have the captive screw on the left, and the large, flat part of the bracket against the wall. Decide which two holes to use to mount the bracket to the wall.
- 2 Mark the two hole centers.
- 3 For drywall/plasterboard walls, drill two holes using a 1/4" or 6mm diameter drill bit.
- 4 For drywall/plasterboard walls, screw the plastic anchors into the holes.
- 5 Attach the wall plate bracket using the two wood screws. Torque the screw to 12.0 in-lbs.
- 6 Connect the power and attach the AP to the mounting bracket, as described below.

Mounting to a Junction/Gang Box

- 1 Place the bracket over the junction box with the captive screw on the left side (Figure 3) and the large, flat plate against the wall. The bracket should be attached to a vertical surface.

- 2 Align two of the bracket holes with two of the box's holes. Use bracket holes that are closest to the center of the bracket. Make sure that the entire box is covered by the bracket.
- 3 Using the two pan head machine screws, attach the bracket to the box using the aligned holes. Torque the screws to 12.0 in-lbs.
- 4 Connect the power through the bracket to the AP, and attach the AP to the mounting bracket, as described below.

Figure 4 Back View



Connecting & Powering the AP3912i

Connect the building LAN1 wire (either PoE at or PoE af) to the black RJ-45 connector, or associated punch-down block, located on the rear of the AP.

- If PoE+ (802.3at) is connected, then the P3/PSE port will offer PoE (802.3af) to connecting clients.
- If PoE (802.3af) is connected, then there will not be any power on the P3/PSE port.

Mounting the AP to the Bracket

- 1 Line up the AP holes (see the arrows in Figure 4) on the rear with the two "L" shaped angled tabs near the right side of the bracket (Figure 3, item #1).
- 2 Slide the AP approximately 1/4" to the left on the two bracket tabs.
- 3 Attach and tighten the captive screw (Figure 3) to the AP so that the AP is attached to the bracket. Torque the screw to 7.0 in-lbs.

Notice

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Regulatory and Compliance Information

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.



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

.This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.



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 20cm between the radiator & your body.

Industry Canada Notice:

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.

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



Warning: 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 20cm between the radiator & 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 20cm de distance entre la source de rayonnement et votre corps.

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.

Qualified Personnel:



Electrical Hazard: Only qualified personnel should perform installation procedures.

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).

Hazardous Substances

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.

Declaration of Conformity in Languages of the European Community

Hereby, Extreme Networks, Inc. declares that the radio equipment type Wireless LAN Access Point is in compliance with Directive 1999/5/EC. 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.

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.						
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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.	
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NCC Statement

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