

AP-7602 Wireless Wallplate

Installation Guide

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Introduction

The AP-7602 11AC Wireless Wallplate is designed for installation over a structured cable telecom box, or installed flat to a wall surface. The AP-7602 is ideally suited for 802.11 micro-cell networks in hotels, dormitory housing and similar multi-tenant buildings.

If new to the Wireless Wallplate's Access Point technology, refer to the WiNG Access Point System Reference Guide to familiarize yourself with the feature set supported by the WiNG operating system.

Warnings

- Read all installation instructions and site survey reports, and verify correct equipment installation before connecting the Wireless Wallplate.
- Remove jewelry and watches before installing this equipment.
- Verify any device connected to this unit is properly wired and grounded.
- Verify there is adequate ventilation around the device, and that ambient temperatures meet equipment operation specifications.

Site Preparation

- Consult your site survey and network analysis reports to determine specific equipment placement, power drops, and so on.
- Assign installation responsibility to the appropriate personnel.
- Identify and document where all installed components are located.
- Ensure adequate, dust-free ventilation to all installed equipment.
- Identify and prepare Ethernet connections.
- Verify cable lengths are within the maximum allowable distances for optimal signal transmission.

AP-7602 Package Contents

An AP-7602 is available in internal antenna (AP-7602) configurations. An AP-7602 ships with the following:

- AP-7602 Wireless Wallplate
- AP-7602 Quick Install Guide
- 10cm RJ-45 cable
- Mounting bracket
- One security screw

Features

An AP-7602 supports the following feature set:



- Two RJ-45 connectors (GE1/GE2)
- Three LED indicators (2.4GHz, 5GHZ and BLE)
- One 2.4 GHz 802.11n radio and one 5 GHz 802.11ac radio
- One BT/BLE radio

GE1/POE accepts 802.3at or 802.3af compliant power from an external source.

When operating in a Gigabit Ethernet environment, CAT-5e or CAT-6 cable is recommended for Gigabit operation.

AP-7602 Antennas

An AP-7602 internal antenna Wireless Wallplate supports the following:

2.4 GHz Gain (dBi)	5 GHz Gain (dBi)
3.76dBi	5.95dBi



Installation Instructions

The AP-7602 includes a wall mounting bracket suitable to install the unit to a flush wall surface or to a standard telecommunications junction box.

To prepare for the installation:

- 1 Match the part number on the purchase order with the part numbers in the packing list and on the case of the AP-7602.
- 2 Verify the contents of the box include the intended AP-7602, and the included hardware matches the package contents.

Part Number	Description
AP-7602-68B30-US	802.11ac dual band radio 1x1; or single band radio 2x2, internal antenna, BLE, 2xGE (US only)
AP-7602-68B30-IL	802.11ac dual band radio 1x1; or single band radio 2x2, internal antenna, BLE, 1xGE (Israel only)
AP-7602-68B30-1-WR	802.11ac dual band radio 1x1; or single band radio 2x2, internal antenna, BLE, 2xGE (WR)

- 3 Review site survey and network analysis reports to determine the location and mounting position for the AP-7602.
- 4 Connect a CAT-5 or better Ethernet cable to a compatible 802.3at or 802.3af power source and run the cable to the installation site. Ensure there is sufficient slack on the cable to perform the installation steps.



NOTE

When operating in a Gigabit Ethernet environment, CAT-5e or CAT-6 cable is recommended for Gigabit operation.

Precautions

Before installing an AP-7602, verify the following:

• You are using the correctly rated power solution for the AP-7602 (either the power injector or the external power supply)

AP-PSBIAS-2P3-ATR	PWR INJECTOR: SINGLE PORT HI-PWR 802.3AT
PWR SPLY:100-240 VAC, 12VDC, 1.0A min, 2.5mm barrel, center positive, maximum operating temperature at least 40°C	AC/DC Power Supply

• Do not to install the AP-7602 in wet or dusty areas.

- Verify the environment has a continuous temperature range between 32° F to 104° (0-40°C).
- This product is intended for indoor use only.

Placing the AP-7602

For optimal performance, install the AP-7602 away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators and other industrial equipment. Signal loss can occur when metal, concrete, walls or floors block transmission. Install the AP-7602 in an open area or add Wireless Wallplates as needed to improve coverage.

Antenna coverage is analogous to lighting. Users might find an area lit from far away to be not bright enough. An area lit sharply might minimize coverage and create dark areas. Uniform antenna placement in an area (like even placement of a light bulb) provides even, efficient coverage.

To maximize the radio coverage area, Extreme Networks recommends conducting a site survey to define and document radio interference obstacles before installing the AP-7602.

Power Injector System

An AP-7602 can receive power via an Ethernet cable connected to the GE1/POE (LAN) port. The AP-7602 can receive power from either a standard 802.3af PSE connected to GE1, or a 12VDC power supply.

When users purchase a WLAN solution, they often need to place units in obscure locations. In the past, a dedicated power source was required for each AP-7602 in addition to the Ethernet infrastructure. This often required an electrical contractor to install power drops at each AP-7602 location. The Power Injector merges power and Ethernet into one cable, reducing the burden of installation and allowing optimal AP-7602 placement in respect to the intended coverage area.



CAUTION

Using a non-compliant injector, or an injector supporting legacy modes will not allow the AP-7602 to function at optimum performance levels.

The Power Injector is a high power POE Injector delivering up to 30 watts. The AP-7602 can only use a Power Injector when connecting the unit to the AP-7602's GE1/POE port. The Power Injector is separately ordered and not shipped with an existing AP SKU.

The Power Supply is not included with the AP-7602 and is orderable separately as an accessory. Disconnecting AC power from the Wireless Wallplate causes the unit to re-boot before sourcing power from a POE power injector. If the AP is operating using injector supplied power, the AP will not automatically reboot if an AC adapter is connected. The AP-7602 continues to operate with power supplied from the AC adapter without change to the operating configuration. If using AC adapter supplied power and a change to the AP's

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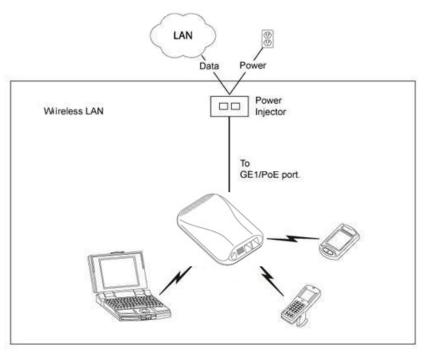
operating configuration is warranted, the AP-7602 needs to be manually rebooted by the customer.



CAUTION

The AP-7602 supports any standards-based compliant power source. However, using the wrong solution (including a POE system used on a legacy device) could either limit functionality or severely damage the AP-7602 and void the product warranty.

A separate Power Injector is required for each AP-7602 comprising the network.



The Power Injector can be installed free standing, on an even horizontal surface or wall mounted using the power injector's wall mounting key holes. The following guidelines should be adhered to before cabling the Power Injector to an Ethernet source and an AP-7602:

- Do not block or cover airflow to the Power Injector.
- Keep the Power Injector away from excessive heat, humidity, vibration and dust.
- The Power Injector isn't a repeater, and does not amplify the Ethernet signal. For optimal performance, ensure the Power Injector is placed as close as possible to the data port.



To avoid problematic performance and restarts, disable POE from a wired switch port connected to an AP-7602 if mid-span power sourcing equipment (PSE) is used between the two, regardless of the manufacturer of the switch.



CAUTION

Ensure AC power is supplied to the Power Injector using an AC cable with an appropriate ground connection approved for the country of operation.

To install the Power Injector to an Ethernet data source and an AP-7602:

- 1 Connect the Power Injector to an AC outlet (100VAC to 240VAC).
- 2 Connect an RJ-45 Ethernet cable between the Power Injector Data & Power Out connector and the AP-7602's GE1/POE port.
- 3 Connect an RJ-45 Ethernet cable between the network data supply (host) and the Power Injector Data In connector.

Ensure the cable length from the Ethernet source (host) to the Power Injector and AP-7602 does not exceed 100 meters (333 ft).

The Power Injector has no On/Off power switch. The Injector receives power and is ready for device connection and operation as soon as AC power is applied. Refer to the Installation Guide shipped with the Power Injector for a description of the LEDs.

Mounting Instructions

An AP-7602 can be mounted to a flat wall surface or over an existing telco junction box.

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NOTE

Before mounting and installing the AP-7602, obtain the unit's default IP address from the backside of the unit. This default IP address is needed when connecting to the Access Point.

Wall Mount Procedure

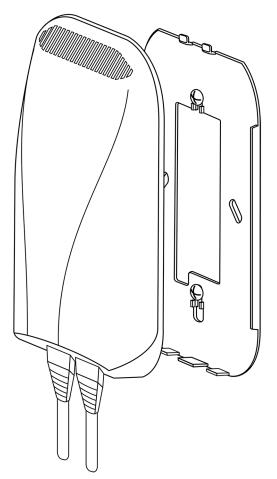
To mount an AP-7602 Access Point to a wall surface (no telco box):

- 1 Place the mounting bracket against the wall.
- 2 Mark the screw hole locations.



NOTE

When pre-drilling a hole the recommended hole size is 4mm (0.16in.).



3 At each point, drill a hole in the wall and attach the mounting bracket.

4 Cable the AP-7602 using either the Power Injector solution, an approved AP-7602 power supply or a POE enabled switch.

For Power Injector installations:

- a Connect a RJ-45 CAT5e (or CAT6) Ethernet cable between the Power Injector Data & Power Out connector and the AP-7602's GE1/POE port.
- b Connect a RJ-45 CAT5e (or CAT6) Ethernet cable between the network data supply (host) and the Power Injector Data In connector.
- c Ensure the cable length from the Ethernet source (host) to the Power Injector and AP-7602 does not exceed 100 meters (333 ft). The Power Injector has no On/Off power switch. The Power Injector receives power as soon as AC power is applied.

For standard power adapter (non Power Injector) and line cord installations:

- a Connect a RJ-45 Ethernet cable between the network data supply (host) and the AP-7602's GE1/POE port.
- b Connect the power supply line cords to the power adapter.
- c Attach the power adapter cable into the power connector on the AP-7602.
- d Attach the power supply line cord to a power supply.
- 5 Once cabled, snap the AP-7602 on the mounting plate
- 6 Verify the AP-7602 is receiving power by observing the LEDs are lit or flashing.

7 The AP-7602 is ready to configure.

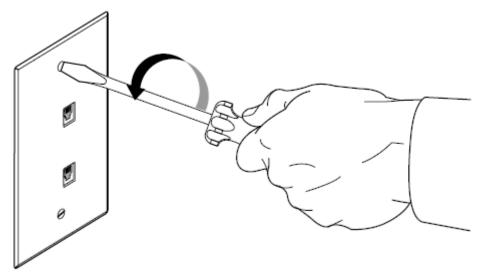


CAUTION

Using an incorrectly rated power supply could damage the AP-7602 and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

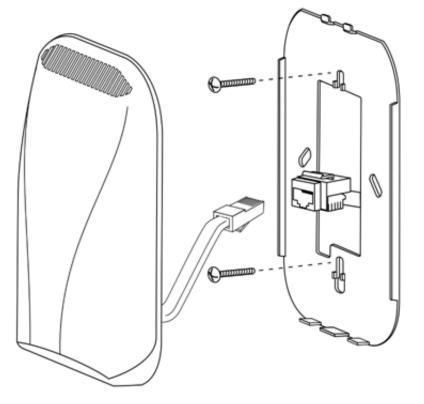
Telco Box Installation

For telco Box installations, the Wireless Wallplate is installed directly over the standard wall plate supplying Ethernet. All cabled electrical connections are made within a recessed well in the housing of the Access Point. To install the Wireless Wallplate over a telco box:



1 Remove the existing screws and the existing wallplate cover.

2 Gently disengage and remove the RJ-45 outlets from the wallplate cover.

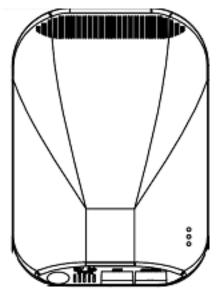


- 3 Reuse the existing screws to screw the mounting plate to the telco box.
- 4 Connect one end of the 10cm RJ-45 cable into GE1.
- 5 Route the GE1 cable back through the routing channel on the underside of the Wireless Wallplate.
- 6 Plug the other end of the 10cm RJ-45 cable into the RJ-45 outlet.
- 7 Snap the Wireless Wallplate to the mounting plate.

- 8 Verify the unit has power by observing the LEDs.
- 9 The AP-7602 is ready to configure.

LED Indicators

The AP-7602's three LED activity indicators are located on the front of the housing and are visible through the enclosure.



The LEDs provide a status display indicating error conditions, transmission, and network activity for the 5 GHz 802.11ac (amber) radio, 2.4 GHz 802.11n (green) radio and Bluetooth activity (blue) radio.



NOTE

LED behavior for the AP-7602 are identical in both WLAN and client bridge modes.

Task	Green	Amber	Blue
Firmware Update	Off	On	Off
Radio Disabled	Off	Off	N/A
Radio Enabled Not Configured	Solid Green	Solid Amber	N/A
Radio Enabled and Configured	Blink 500ms Out of sync with Amber LED	Blink 500ms Out of sync with Green LED	N/A

Task	Green	Amber	Blue
Sensor with Server Connected	On 1 second, Off 1 second	On 1 second, Off 1 second	N/A
	Synced with Amber LED	Synced with Green LED	
Sensor with Server Not Connected	On 1 second, Off 5 seconds	On 1 second, Off 5 seconds	N/A
	Synced with Amber LED	Synced with Green LED	
Locate AP Mode	Irregular Blink Rate, Green/Amber/Blue	Irregular Blink Rate, Green/Amber/Blue	Irregular Blink Rate, Green/Amber/Blue
Bluetooth Radio Enabled	N/A	N/A	Solid Blue
Bluetooth Radio Disabled	N/A	N/A	Off



Once the AP-7602 is installed and powered on, complete the following WiNG Assist configuration steps to get the AP-7602 up and running with minimal administrative intervention.

Startup Assist updates existing settings. To delete or revise existing Startup Assist settings, either rerun Startup Assist or navigate to where those parameters appear in the user interface and update them accordingly. Refer to the more advanced configuration documentation available on the Extreme Networks support site for updating the management interface beyond the scope of the WiNG Assist configuration described in this guide.

- 1 Power the AP-7602 using an appropriate power adapter, PoE injector, or PoE switch.
- 2 Connect to the AP-7602. The default IP address is located on the backside of the AP-7602.



- 3 Enter the default username admin in the **Username** field.
- 4 Enter the default password admin123 in the **Password** field.
- 5 Select the **Login** button to load the management interface.

	vides the basic setup information required to get one wireless LAN operational. Optionally, or Detailed configuration, Please access the appropriate page	, you may enable
Virtual		
Controller:		
Country Name: *	United States-us	~
Timezone:	Etc/UTC	~
Date & Time:	01/03/2016 📑 Hour: 9 🗘 Mins: 2 🗘 🔿 AM 🖲 PM	
WLAN Settings		
WLAN 1 Name:		
Authentication:	Ø Open O PSK	
Key (If PSK):*	Show @ Ascii O Hex	
WI AN 2 Name:		
WLAN 2 Name:		
	Open PSK Show Ascii Hex	

If logging in using a factory default configuration, Startup Assist automatically displays.

If Startup Assist does not automatically display, it can be invoked at any time from the upper-left of the Basic Configuration screen.



NOTE

Startup Assist automatically sets the radio transmit power and enables Auto Channel selection. The AP-7602's name is automatically assigned based on the device type and the last three octets of the device's hardcoded MAC address. WLAN 1 and WLAN 2 both use VLAN ID 2200 by default. To adjust any of these parameters, edit the appropriate configuration screen directly. Refer to the reference material available on Extreme Networks Support for configuring the AP-7602 beyond the scope of the minimal WiNG Assist configuration described in this guide.

- 6 Set the following Startup Assist parameters:
 - Virtual Controller Select this option to set this AP-7602 as a Virtual Controller capable of managing and provisioning up to 64 AP-7602 models. Those AP-7602 Wireless Wallplates managed by this Virtual Controller list this AP-7602's Name as its own. Only one Virtual Controller can be designated.
 - **Country Name** Set the country specific to this AP-7602's deployment location. Selecting the correct country is central to legal operation. Each country has its own

regulatory restrictions concerning electromagnetic emissions and the maximum RF signal strength that can be transmitted.



NOTE

Country Name can not be changed when deployed in the United States or Canada.

- **Timezone** Use the drop-down menu to specify the geographic timezone where the AP-7602 is deployed. Different geographic time zones have daylight savings clock adjustments, so specifying the timezone correctly is important to account for geographic time changes.
- Date & Time -Set the date, hour and minute for the AP-7602's current system time. Specify whether the current time is in the AM or PM.
- WLAN 1 Name Provide a unique name for this WLAN as its network identifier. This is a required setting. The name is used for the SSID and is assigned to both of the AP-7602's radios.
- Authentication Select PSK to apply a 64 character maximum passphrase. Provide the passphrase in either ASCII or Hex format. The authenticating device must use the same PSK algorithm during authentication. Selecting **Show** displays the key in exposed plain text (not recommended).
 - Selecting **Open** is not a recommended authentication scheme, as it would provide the AP-7602's WLAN no security via credential exchange and would only make sense in a network where no sensitive data is either transmitted or received.
- 7 Select **Apply** to save and commit the Startup Assist changes to the AP-7602's configuration. Select **Discard** to revert to the last saved configuration.

The Virtual Controller, Country Name, Timezone and Date & Time portions of the Basic Settings screen update with the settings applied and saved in the Startup Assist screen. WLAN updates made in Startup Assist are displayed in Wireless screen, not the Basic Configuration screen.





Electrical Characteristics

An AP-7602 has the following electrical characteristics:

Operating Current & Voltage	12VDC, 1A, 2.5mm barrel connector, center positive
Power over Ethernet	48VDC, .25A, PoE

Physical Characteristics

An AP-7602 has the following physical characteristics:

Dimensions	.01 in. L x 5.70 in. W x 1.10 in. H
	102 mm L x 145 mm W x 28 mm H
Weight	0.5 lbs/0.23 kg
Operating Temperature	32° F to 104° F/0° C to 40° C
Storage Temperature	-40° F to 158° F/-40° C to 70° C
Operating Humidity	85% RH non-condensing
Operating Altitude	8,000 ft @ 28C
(maximum)	
Storage Altitude	30,000 ft
(maximum)	
Electrostatic Discharge	8KV air, 6KV contact

Radio Characteristics

The AP-7602 has the following radio characteristics:

	3
Data Rates Supported	802.11b/g: 1,2,5.5,11,6,9,12,18,24,36,48 and 54 Mbps
	802.11a: 6,9,12,18,24,36,48, and 54 Mbps
	802.11n: MCS 0-15 up to 300 Mbps
	802.11ac: MCS 0-9 up to 866.7 Mbps
Wireless Medium	Direct Sequence Spread Spectrum (DSSS)
	Orthogonal Frequency Division Multiplexing (OFDM)
Network Standards	IEEE 802.11a/b/g/n/ac
	802.11d and 802.11i WPA2
	WMM and WMM-UAPSD
Transmit Power Adjustment	1dB increments



Regulatory Information

Regulatory Information

This guide applies to the following Model Number AP-7602.

Extreme Networks devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Local language translations are available at the following Website: www.extremenetworks.com/support

Any changes or modifications to Extreme Networks equipment, not expressly approved by Extreme Networks could void the user's authority to operate the equipment.

Extreme Networks devices are professionally installed, the Radio Frequency Output Power will not exceed the maximum allowable limit for the country of operation.

Antennas: Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

Bluetooth® Wireless Technology

This is an approved Bluetooth[®] product. For more information or to view the End Product Listing, please visit <u>https://www.bluetooth.org/tpg/listings.cfm</u>.

Wireless Device Country Approvals

Regulatory markings subject to certification are applied to the device signifying the radio(s) is/are approved for use in the following countries and continents: United States, Canada, Japan, China, South Korea, Australia, and Europe.



NOTE

Europe includes, Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.



WARNING

Operation of the device without regulatory approval is illegal.

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/

Country Selection

Select only the country in which the device will be used. Any other selection will make the operation of this device illegal.

Country Roaming

This device incorporates the International Roaming feature (IEEE802.11d) which will ensure the product operates on the correct channels for the particular country of use.

Ad-Hoc Operation (2.4 GHz band)

Ad-Hoc operation is limited to Channels 1-11 (2412-2462 MHz).

Frequency of Operation – FCC and IC

5 GHz Only

Industry Canada Statement:

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-Channel mobile satellite systems. High power radars are allocated as primary users (meaning they have priority) over other frequencies and these could cause interference and/or damage to LE-LAN devices.

Attention: Le dispositif pour la bande 5150-5250 MHz est uniquement destiné à une utilisation en intérieur afin de réduire les Pour les brouillages préjudiciables aux systèmes de satellites mobiles co-canaux. Les radars haute puissance sont Alloués en tant qu'utilisateurs principaux (c'est-à-dire qu'ils ont la priorité) par rapport aux autres fréquences et qui pourraient causer des interférences et / ou endommager les dispositifs LE-LAN.

2.4 GHz Only

Available channels for 802.11bg operation in the US are 1 to 11. The range of channels is limited by firmware.

Health and Safety Recommendations

Ergonomic Recommendations



CAUTION

In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures

Wireless devices transmit radio frequency energy and may affect medical electrical equipment. When installed adjacent to other equipment, verify that the adjacent equipment is not adversely affected.

Pacemakers

Pacemaker manufacturers recommended that a minimum of 15cm (6 inches) be maintained between a handheld wireless device and a pacemaker to avoid potential interference with thepacemaker. These recommendations are consistent with independent research and recommendations by Wireless Technology Research.

Persons with Pacemakers

- Should ALWAYS keep the device more than 15cm (6 inches) from their pacemaker when turned ON.
- Should not carry the device in a breast pocket.

- Should use the ear furthest from the pacemaker to minimise the potential for interference.
- If you have any reason to suspect that interference is taking place, turn OFF your device.

Other Medical Devices

Please consult your physician or the manufacturer of the medical device to determine if the operation of your wireless product may interfere with the medical device.

RF Exposure Guidelines

Safety Information

Reducing RF Exposure - Use Properly

Only operate the device in accordance with the instructions supplied.

International

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices.

Access Points

Access Points must conform to U.S. Federal Communications Commission's (FCC) limitations. FCC has now stipulated a 21dBm EIRP limit for power directed 30 degrees above the horizon.

For supplied antennas, compatible with 5.0 GHz on the access points, refer to the Antenna Guide for "Elevation Gain" information. If using a third-party antenna, it is required that you obtain the antenna-elevation gain information from the antenna manufacturer.

Panel antennas and polarized antennas for point to point only are excluded from this requirement.

The elevation gain must be configured if the access point:

- Is used with dipole antenna. and
- Is transmitting in the 5.15 5.25 GHz Unlicensed National Information Infrastructure-1 (UNII1) band

Power Supply

Use ONLY an approved UL LISTED ITE (IEC/EN 60950-1, LPS/SELV) power supply with electrical ratings: Output 12Vdc, min 1A, with a maximum ambient temperature of at least 50 degrees C. Use of alternative power supply will invalidate any approvals given to this unit and may be dangerous.

Alternately this device may be powered from a 802.3af compliant power source which has been certified by the appropriate agencies, or by an approved UL LISTED ITE (IEC/EN 60950-1, LPS/SELV) power supply with electrical ratings: Output 48Vdc, min 0.25A, with a recommended ambient temperature greater than 50 degrees C. Use of alternative power supply will invalidate any approvals given to this unit and may be dangerous.

The product is to be connected to PoE networks without routing to the outside plant.

Radio Frequency Interference Requirements—FCC

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 or more 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.

Radio Transmitters (Part 15)

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.

The equipment shall be subject to professional engineering personnel to install and configure, it just can be used, and may not be sold directly to the general consumer.

Based on 20cm separation distance to assess the amount of electromagnetic exposure(MPE).

MPE limit 1mW/cm²; Test result is 0.39207 mW/cm²

When using this device, it is recommended to have a separation distance of 20 cm.

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

Radio Frequency Interference Requirements - Canada

CAN ICES-3 (B)/NMB-3(B)

Radio Transmitters

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement.

Label Marking: The Term 'IC:' before the radio certification only signifies that Industry Canada technical specifications were met.

Etiquette de marquage: Le terme "IC" avant la certification radio signifie que le produit est compatible avec le spécification Industrie Canada

The equipment shall be subject to professional engineering personnel to install and configure, it just can be used, and may not be sold directly to the general consumer.

Based on 20cm separation distance to assess the amount of electromagnetic exposure

2.4GHz Band: MPE limit 5.4039 W/m²; Test result is 1.5215 W/m²

5GHz Band: MPE limit 9.7564 W/m²; Test result is 2.2977 W/m²

When using this device, it is recommended to have a separation distance of 20 cm.

L'équipement doit être assujetti au personnel d'ingénierie. Configurer, il peut seulement être utilisé, et ne peut pas être vendu directement au consommateur général.

Basé sur une distance de séparation de 20 cm pour évaluer la quantité d'exposition électromagnétique (MPE).

2.4GHz Band: MPE limite 5.4039 W / m^2 ; Le résultat du test est de 1.5215 W / m^2

5GHz Band: MPE limite 9.7564 W / m^2 ; Le résultat du test est de 2.2977 W / m^2

Lors de l'utilisation de cet appareil, il est recommandé d'avoir une distance de séparation de 20 cm.

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

Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec une autre antenne ou émetteur.

CE Marking and European Economic Area (EEA)

The use of 2.4GHz RLAN's, for use through the EEA, have the following restrictions:

Maximum radiated transmit power of 100 mW EIRP in the frequency range $\ 2.400$ -2.4835 GHz.

Bluetooth® Wireless Technology for use throughout the EEA has the following restrictions:

Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 - 2.4835 GHz.

Statement of Compliance

Extreme Networks hereby declares that this radio equipment is in compliance with Directive 2011/65/EU and 1999/5/EC or 2014/53/EU (2014/53/EU supersedes 1999/5/EC from 13th June 2017).

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

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ください。 VCCI-B

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the manual.

Korea Warning Statement for Class B ITE

기종별	사용자 안내문
B급 기기 (가정용 방송통신기자재)	이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.
Class	User's Guide
Class B	This device obtained EMC registration mainly for
(Broadcasting Communication Device for Home Use)	home use (Class B) and may be used in all areas.

Other Countries

All 2.4GHz and 5GHz Wireless Devices:

Australia

Use of 5GHz RLAN's in Australia is restricted in the following band 5.50 – 5.65GHz.

Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em Sistemas devidamente autorizados.

Chile

Este equipo cumple con la Resolución No 403 de 2008, de la Subsecretaria de telecomunicaciones, relativa a radiaciones electromagnéticas.

This device complies with the Resolution Not 403 of 2008, of the Undersecretary of telecommunications, relating to electromagnetic radiation.

Chile: (Devices with a WLAN Radio)

The device will comply with Chile's Resolution 755, part j.1) which states that the device is set to operate in the following bands for indoor use only with maximum radiated power not greater than 150mW:

- 2.400 hasta 2.483,5 MHz
- 5.150 hasta 5.250MHz
- 5.250 hasta 5.350MHz
- 5.725 hasta 5.850MHz

as well as that band 5150-5250MHz will be restricted to the indoor use and the maximum radiated power density does not exceed 7.5MW / MHz in any 1 MHz band and 0.1875mW / 25kHz in any 25kHz band.

Conforme a Resolución 755 parte j.1), se ajustará el dispositivo a operar en interiores en las siguientes bandas con una potencia máxima radiada no superior a 150mW:

- 2.400 hasta 2.483,5 MHz
- 5.150 hasta 5.250MHz
- 5.250 hasta 5.350MHz
- 5.725 hasta 5.850MHz

Además, de acuerdo con Resolución 755, para la banda 5150-5250MHz la operación del equipo estará restringida al interior de inmuebles y la densidad de potencia radiada máxima no supera 7,5mW/MHz en cualquier banda de 1MHz y 0.1875mW/25kHz en cualquier banda de 25kHz.

China

通过访问以下网址可下载当地语言支持的产品说明书www.extremenetworks.com/support.



Eurasian Customs Union

Евразийский Таможенный Союз

Данный продукт соответствует требованиям знака ЕАС.



Hong Kong

In accordance with HKTA1039, the band 5.15GHz - 5.35GHz is for indoor operation only.

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.

South Korea

For a radio equipment using 2400~2483.5MHz or 5725~5825MHz, the following two expressions should be displayed:

무선 설비는 운용 중 전파혼신 가능성이 있음

당해 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.

Turkey

For terminals that support Turkish characters in SMS Release 8 services, the following

statement should be printed on the packages and manual of the device:

Bu cihaz Türkçe karakterlerin tamam?n? ihtiva eden ETSI TS 123.038 V8.0.0 (veya sonraki sürümün kodu) ve ETSI TS 123.040 V8.1.0 (veya sonraki sürümün kodu) teknik özelliklerine uygundur.

This device conforms to technical specification in ETSI TS 123.038 V8.0.0 (or the code of any subsequent release) and ETSI TS 123.040 V8.1.0 (or the code of any subsequent release) which contain all Turkish characters.

Thailand

้เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช.

Taiwan

台灣

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乾擾合法通信;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,指依電信規定作業之無線電通信。

低功率射頻電機需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。

使用此產品時應避免影響附近雷達系統之操作。

無線接入點(專業安裝)

• "本公司於說明書中提供所有必要資訊以指導使用者/安裝者正確的安裝及操作"警 語。並於該中文使用說明書及器材上標示。

 "本器材須經專業工程人員安裝及設定,始得設置使用,且不得直接販售給一般消費者 "警語。

電磁波曝露量MPE標準值 1mW/cm²;送測產品實測值為:0.39207 mW/cm²

本產品使用時建議應距離人體 20cm

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):

The symbol above indicates that separate collection of electrical and electronic equipment is required.

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.

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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.

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).

Turkish WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur

AP-7602 RoHS Compliance

		(b)				
部件名称 (Parts)	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联 苯 (PBB)	多溴二苯 醚 (PBDE)
金属部件 (Metal Parts)	0	0	0	0	0	0
电路模块 (Circuit Modules)	X	0	0	0	0	0
电缆及电缆组件 (Cables and Cable Assemblies)	0	0	0	0	0	0
塑料和聚合物部件 (Plastic and Polymeric Parts)	0	0	0	0	0	0
光学和光学组件 (Optics and Optical Components)	0	0	0	0	0	0
电池 (Batteries)	0	0	0	0	0	0

本表格依据 SJ/T 11364 的规定编制。

0: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量 要求以下。 X: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GB/T 26572 规定 的限量要求。 (企业可在此处,根据实际情况对上表中打"×"的技术原因进行进一步说明。)

This table was created to comply with China RoHS requirements for AP-7622 Access Points.