



WatchGuard

AP327X

Hardware Guide

AP327X
Outdoor Access Point

About This Guide

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About WatchGuard

WatchGuard® Technologies, Inc. is a global leader in network security, providing best-in-class Unified Threat Management, Next Generation Firewall, secure Wi-Fi, and network intelligence products and services to more than 75,000 customers worldwide. The company's mission is to make enterprise-grade security accessible to companies of all types and sizes through simplicity, making WatchGuard an ideal solution for Distributed Enterprises and SMBs. WatchGuard is headquartered in Seattle, Washington, with offices throughout North America, Europe, Asia Pacific, and Latin America. To learn more, visit WatchGuard.com.

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WatchGuard AP327X Hardware Guide

The WatchGuard AP327X is intended for outdoor use and features an IP67 waterproof rating, 2X2 MU-MIMO 802.11ac Wave 2 capabilities, and dual radios that supports 2.4GHz (802.11b/g/n) and 5GHz (11a/n/ac) to provide wireless clients with enhanced reliability and performance. Power is provided by any PoE+ (Power over Ethernet) power source.



Requirements

There are two ways you can manage your AP327X:

Total Wi-Fi and Secure Wi-Fi with WatchGuard Wi-Fi Cloud

A powerful cloud-based enterprise wireless management solution for AP configuration, security, and monitoring.

Basic Wi-Fi with WatchGuard Firebox Gateway Wireless Controller

Local management, configuration, security, and monitoring of APs directly from your WatchGuard Firebox. The WatchGuard Firebox requires Fireware v12.5 and higher.

About Your Hardware

Hardware Specifications

Chipset	Qualcomm QCA IPQ4029 + QCA8075
Processor and RAM	Qualcomm IPQ4029-1-583MSP with 512MB RAM and 128MB Flash
IP Rating	IP67
Radio Type and Frequency Band	2.4 GHz, 802.11b/g/n. Max data rate: 300 Mbps 5 GHz, 802.11a/n/ac. Max data rate: 867 Mbps
Antennas	2 N-Type external antennas 2.4 GHz 2 N-Type external antennas 5 GHz Dimensions: 7.3" x 0.83" x 0.83" (186.0mm x 21.2mm x 21.2mm) Weight: 0.35 lbs (0.14 kg) / per pair * Sold separately
Ethernet Interface	1 x 10/100/1000 Mbps Gigabit Ethernet (LAN1) 802.3at PoE+ capable 1 x 10/100/1000 Mbps Gigabit Ethernet (LAN2) for wired extension
Power Interface	LAN1 PoE+ (802.3at), 48V
Power Consumption	Max: 19W Min: 11W Average: 16W
MTBF (Mean Time Between Failures) Rating	4,544,476 hours at 25°C / 77°F 998,437 hours at 65°C / 149°F
Dimensions	8.42" x 8.42" x 2.66" (213.9mm x 213.9mm x 67.5mm)
Weight	3.95 lbs (1.78 kg)

Environmental Requirements

To safely install your WatchGuard AP, we recommend that you:

- Install the device indoors or outdoors, preferably under cover
- Make sure the device has adequate clearance for air flow and cooling

Other environmental requirements:

Operating Temperature	-40°C to 65°C (-40°F to 149°F)
Operating Humidity	5% to 95% non-condensing
Non-operating Temperature	-40°C to 70°C (-40°F to 158°F)
Non-operating Humidity	5% to 95%, non-condensing

Hardware Description

Device Connections and Buttons

Ethernet Network Interfaces

LAN1: Standard RJ45 connector that supports link speeds of 10/100/1000 Mbps and 802.3at PoE+ connectivity. You can power the WatchGuard AP327X with a PoE+ connection on the LAN1 interface.

LAN2: Standard RJ45 connector that supports link speeds of 10/100/1000 Mbps. In Wi-Fi Cloud, you can configure this interface as a wired extension on an SSID. For more information, see the *WatchGuard Wi-Fi Cloud Help*.

For APs managed locally by a Gateway Wireless Controller, you can bridge together the LAN ports on AP models that have two LAN interfaces. This enables you to extend the wired network on the LAN2 interface. For more information, see the *Fireware Help*.



Reset Button

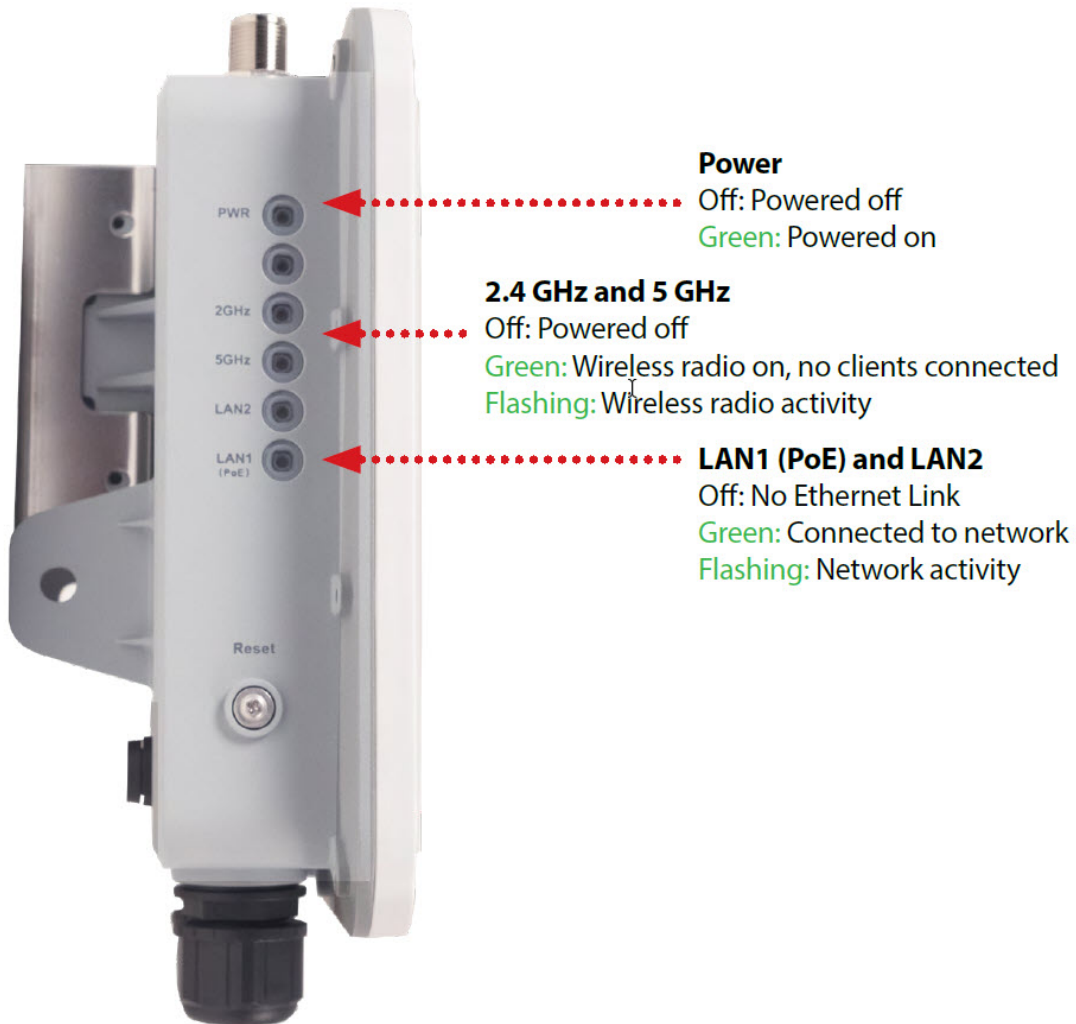
Resets the WatchGuard AP to factory-default settings.



- You must use a Phillips screwdriver to remove the cover screw for the reset button. Use a paper clip or other small object to press the reset button through the hole.
- Press and hold the reset button for up to 10 seconds until all LEDs go off to indicate that the AP has rebooted.

Device Indicators

The AP327X has these LED indicators:



Device Indicators in AP Firmware 8.8.1 and Higher

LED	Status	Description
Power	Off	Powered off.
	Solid Green	Powered on.
	Flashing Green	AP cannot connect to Wi-Fi Cloud or the Gateway Wireless Controller.
	Flashing Amber	AP did not receive an IP address from the DHCP server.
LAN1 (PoE)	Off	No Ethernet link.
	Solid Green	Network interface is up and connected at 10/100/1000 Mbps.
LAN2	Off	No Ethernet link.
	Solid Green (Wi-Fi Cloud mode)	LAN interface is configured for a wired extension of an SSID.
	Solid Green (Local mode)	Network interface is up and connected at 10/100/1000 Mbps.
2.4 GHz and 5 GHz radios	Off	8.8.2 and higher: No SSID enabled on the radio. 8.8.1: Wireless radio is inactive.
	Solid Green	8.8.2 and higher: SSID enabled on radio. 8.8.1: Wireless radio is active.

Device Indicators in AP Firmware 8.8.0 and Lower

LED	Status	Description
Power	Solid Green	Powered on
	Off	Powered off
LAN1 (PoE)	Solid Green	Device connected to LAN1 port at 10/100/1000 Mbps.
	Fast Flash Green	Did not receive valid IP address from DHCP.
	Slow Flash Green	Cannot connect to WatchGuard Wi-Fi Cloud.
	Intermittent Flash Green	Activity on LAN1 port.
	Off	No Ethernet link.
LAN2	Solid Green	Device connected to LAN2 port at 10/100/1000 Mbps.
	Flashing Green	Activity on LAN2 port.
	Off	No Ethernet link.
2.4 GHz	Solid Green	Client connected to 2.4 GHz radio.
	Intermittent Flash Green	Activity on 2.4 GHz radio.
5 GHz	Solid Green	Client connected to 5 GHz radio.
	Intermittent Flash Green	Activity on 5 GHz radio.

Mounting Instructions

Your package includes pole-mount and wall-mount accessories for your AP.



The MAC address and serial number of your AP are printed on a label on the back of the device. Make sure you record this information before you mount the AP.

Pole Mount Installation

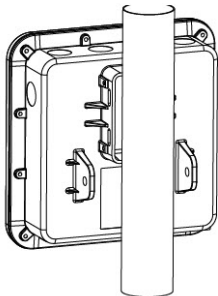
Use the supplied pole-mounting accessories to install the AP327X on a pole.



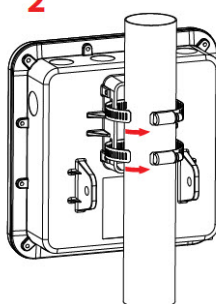
Pole mount clamps

1. Place the AP on the pole.
2. Insert the clamps in the slots on the AP and wrap around the pole.
3. Fasten the screws and make sure the AP is firmly attached to the pole.

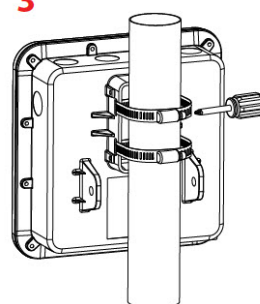
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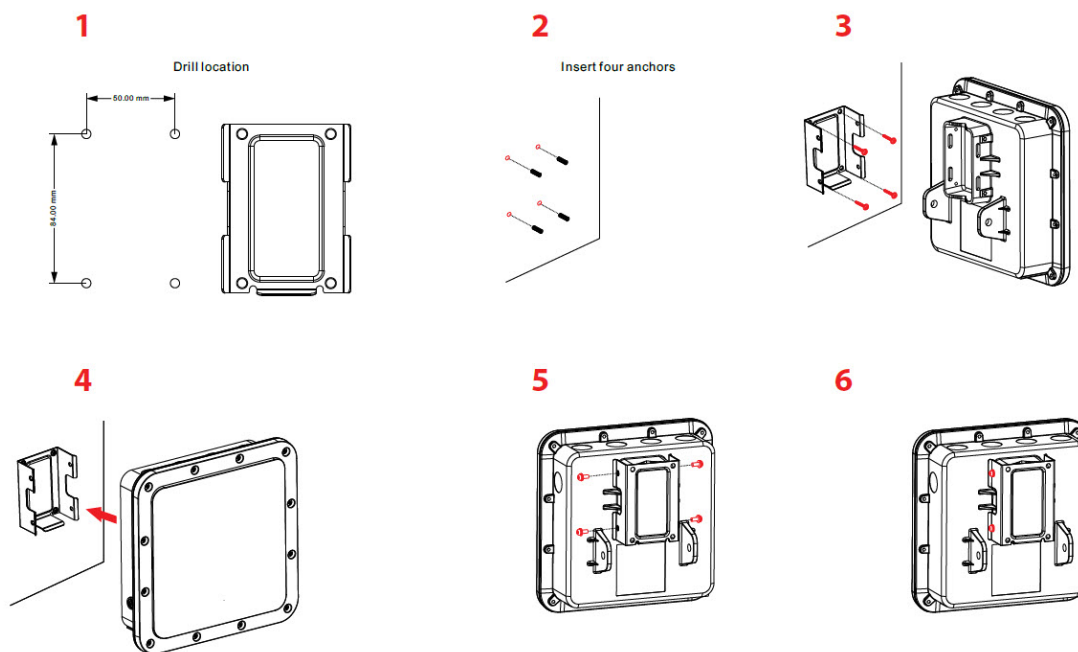
3



Wall Mount Installation

Use the supplied wall-mounting accessories to install the AP327X on a wall.

1. Use the included stencil to drill holes on the wall for the anchors.
2. Insert the four anchors.
3. Affix the mounting bracket to the wall with the included anchor screws.
4. Attach the AP to the mounting bracket.
5. Insert the mounting screws in the slots of the mounting bracket.
6. Fasten the screws.



Connect the Ground Wire

To make sure your outdoor AP is safely protected from electrical events, we recommend you ground the AP according to your local regulations.

Use the included screw to attach the ground wire to the ground connector on the back of the AP and to a nearby grounding point.



Antenna Installation

WatchGuard dual-band omnidirectional dipole antennas (WG9004) are sold separately in packs of two antennas. You will need 4 antennas because the AP requires two antennas for each radio.

On the top of the AP327X, there are two N-type connectors each for the 2.4 GHz radio and the 5 GHz radio. Insert the antennas into the connectors for each radio and turn clockwise to tighten.



You must have 2 antennas connected to each radio. For example, you cannot use one antenna on one 2.4 GHz radio connector, and one antenna on a 5 GHz radio connector.

You can use a combination of WatchGuard omnidirectional antennas and other third-party omnidirectional and directional antennas based on your deployment requirements.

If you use other third-party antenna types, you are responsible for verifying compliance with regional-based regulations on Equivalent Isotropically Radiated Power (EIRP). The maximum power output + antenna gain = EIRP. For example, the maximum EIRP defined by the FCC in the U.S. for 2.4 GHz is 30 dBm (1 Watt), and 5 GHz is 5.15-5.25 23 dBm (200mW), 5.25-5.35 30dBm (1W), and 5.72-5.85 36 dBm (4W).



Connect the AP

To power on and connect the AP327X to the network:

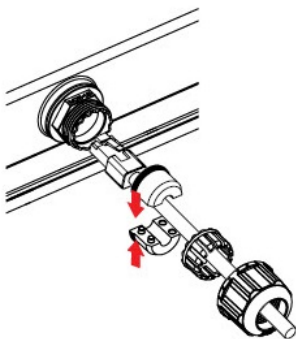
1. Plug one end of an Ethernet cable into the LAN1 (PoE) port on the AP.
Make sure you insert the Ethernet cable correctly through the waterproof assembly before you tighten the LAN port cap.
2. Plug the other end into a PoE+ (802.3at) compatible switch or PoE+ injector.



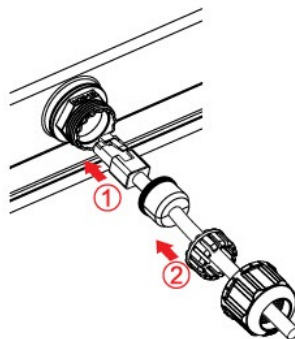
How to Assemble the Weatherproof Connector

Use these instructions to connect the Ethernet cable to the AP through the weatherproof connector.

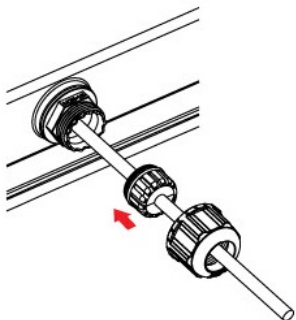
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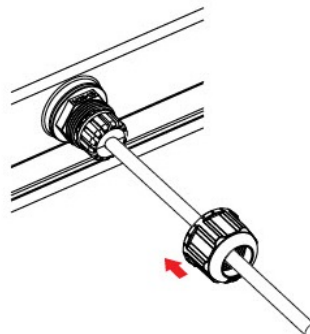
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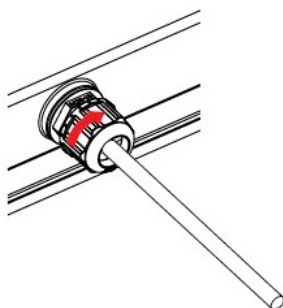
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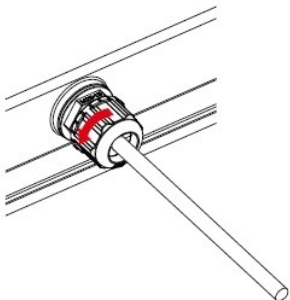
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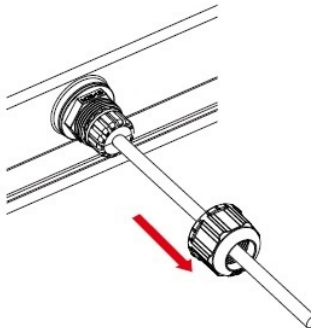
How to Disassemble the Weatherproof Connector

Use these instructions to disconnect the Ethernet cable from the weatherproof connector.

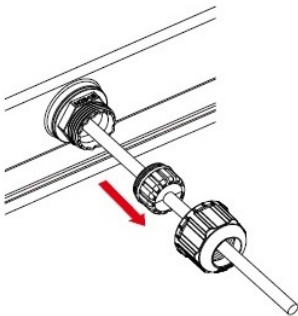
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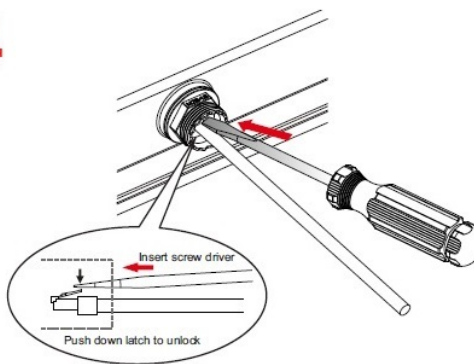
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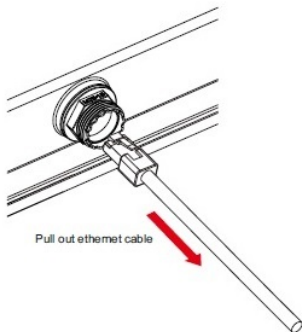
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5



Ethernet Power Injector (Optional)

You can also power the AP327X with an optional Ethernet Power Injector. The PoE+ power injector enables you to power the AP through an existing Ethernet connection. With this device, you do not have to position your AP near a power outlet.



This device complies with IEEE 802.3at/af PoE specifications. Do not use any PoE adapters that are not IEEE 802.3at/af compliant as they may damage your device.

To connect an Ethernet Power Injector to the WatchGuard AP:

1. Plug the Ethernet Power Injector into an AC power source.
2. Connect an Ethernet cable from your network backbone (for example, PoE+ capable router, switch, or hub) to the **LAN** connector on the Ethernet Power Injector.
3. Connect an Ethernet cable from the **LAN1 (PoE)** Ethernet interface on the AP to the **PoE** connector on the Ethernet Power Injector.

The table below provides the specifications for the AC power adapter.

Ethernet Power Injector Specs	
WatchGuard Part Number	802.3at PoE+ Injector with AC cord (US/FCC) (WG8599) 802.3at PoE+ Injector with AC cord (CE) (WG8600) 802.3at PoE+ Injector with AC cord (UK) (WG8601) 802.3at PoE+ Injector with AC cord (AUS) (WG8602)
Specification	IEEE 802.3at/af
AC Input Voltage Rating	100-240 VAC
Input Current	0.8A max for 100VAC
Output Power	30W maximum
Ethernet Interfaces	LAN: RJ-45 for 10/100/1000/2500 Mbps data POE: RJ-45 for 10/100/1000/2500 Mbps data and power Voltage: Pin4, 5:54V, Pin7, 8:Return
Indicator	Power: Green
Temperature	Operating: 0 - 40°C (32 - 104°F) Storage: -30 - 80°C (-22 - 176°F)
Humidity	5% - 90% Operating and Storage
Dimensions	L = 99 mm (3.9") W = 68.5 mm (2.27") H = 33 mm (1.3")
Weight	0.33 lbs (149.6 g)

Notices

All WatchGuard products are designed and tested to meet strict safety requirements. These requirements include product safety approvals and other global compliance standards. Please read these instructions carefully before operating the product, and refer to them as needed to ensure the continued safe operation of your product.

For patent information, please visit <http://www.watchguard.com/patents>

Safety Notices

All WatchGuard products are designed and tested to meet strict safety requirements. These requirements include product safety approvals and other global compliance standards. Read these instructions carefully before you operate the product, and refer to them as needed for continued safe operation of your product.

Product Safety Certification

The WatchGuard product is safety certified under the following standards:

- IEC 60950-1:2005 (Second Edition)+Am 1:2009+Am 2:2013
- EN 60950-1:2006+A11+A1+A12+A2:2013
- EN 55024:2010
- EN 55032:2015/AC/2016
- EN 62311:2008
- EN 61000-3-2:2014
- EN 61000-3-3:2013

Safety Warning

- Do not place objects on the power cord.
- Do not obstruct the ventilation openings. These openings prevent overheating of the machine.
- Never push objects of any kind into slots or openings on this equipment. Making a contact with a voltage point or shorting out a part may result in fire or electrical shock.
- When removing or installing an appliance, follow the general installation safety instructions.

Disclaimer

WatchGuard shall not be held liable if the end user alters, modify, or repairs any WatchGuard hardware appliance.

HINWEISE ZUR SICHERHEIT

Alle WatchGuard Produkte werden entwickelt und getestet, um strenge Sicherheitsanforderungen zu erfüllen. Diese Anforderungen umfassen Produktsicherheit Zulassungen und andere globale Compliance-Standards. Bitte lesen Sie die folgenden Anweisungen sorgfältig, bevor Sie das Produkt, und bezeichnen sie als notwendig, um den sicheren Betrieb des Geräts zu gewährleisten.

Die WatchGuard Produkt ist Sicherheit unter den folgenden Normen zertifiziert:

- IEC 60950-1:2005 (Second Edition)+Am 1:2009+Am 2:2013
- EN 60950-1:2006+A11+A1+A12+A2:2013
- EN 55024:2010
- EN 55032:2015/AC/2016
- EN 62311:2008
- EN 61000-3-2:2014
- EN 61000-3-3:2013

Sicherheitshinweis

- Legen Sie keine Gegenstände auf das Netzkabel.
- Verdecken Sie nicht die Lüftungsöffnungen. Diese Öffnungen verhindern eine Überhitzung der Maschine.
- Stecken Sie niemals Gegenstände jeglicher Art in die Schlitze oder Öffnungen des Geräts stecken. Der Kontakt mit einem spannungsführenden Punkt oder das Kurzschließen eines Bauteils kann zu einem Brand oder elektrischen Schlag führen.
- Beim Entfernen oder Installieren eines Gerätes, nach den allgemeinen Installation Sicherheitshinweise.

AVISO DE SEGURIDAD

Todos los productos WatchGuard están diseñados y probados para satisfacer estrictos requisitos de seguridad. Estos requisitos incluyen la homologación de productos de seguridad y otras normas de cumplimiento global. Por favor, lea atentamente las siguientes instrucciones antes de utilizar el producto, y se refieren a ellos como sea necesario para garantizar el funcionamiento seguro y continuo de su producto. Información adicional se puede encontrar en la Guía del usuario electrónica.

Certificación de seguridad del producto

El producto tiene certificación de seguridad WatchGuard bajo las siguientes normas:

- IEC 60950-1:2005 (Second Edition)+Am 1:2009+Am 2:2013
- EN 60950-1:2006+A11+A1+A12+A2:2013
- EN 55024:2010
- EN 55032:2015/AC/2016
- EN 62311:2008
- EN 61000-3-2:2014
- EN 61000-3-3:2013

Advertencia de seguridad

- No coloque objetos sobre el cable de alimentación.
- No obstruya las aberturas de ventilación. Estas aberturas evitan el sobrecalentamiento de la máquina.
- Nunca introduzca objetos de ningún tipo en las ranuras o aberturas del equipo. El contacto con puntos de voltaje o el cortocircuito de una pieza podría provocar un incendio o una descarga eléctrica.
- Al extraer o instalar un electrodoméstico, siga las instrucciones generales de instalación de seguridad.

FCC Certification

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 device 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.

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

For operation within 5.15 ~ 5.25GHz / 5.47 ~ 5.725GHz frequency range, it is restricted to indoor environment. The band from 5600-5650MHz will be disabled by the software during the manufacturing and cannot be changed by the end user. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Section 15.204(b) states that an approved "transmission system" must always be marketed as a complete system including the antenna.

IMPORTANT NOTE:

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 32cm between the radiator & your body.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Dieses Gerät wurde getestet und entspricht den Grenzwerten für ein Digitalgerät der Klasse B gemäß Teil 15 der Federal Communications Commission (FCC) Regeln einhalten. Diese Grenzwerte sollen einen angemessenen Schutz vor schädlichen Störungen, wenn das Gerät in einer kommerziellen Umgebung betrieben wird. Dieses Gerät erzeugt, verwendet und kann Hochfrequenzenergie abstrahlen, und wenn nicht installiert und in Übereinstimmung mit der Bedienungsanleitung, kann es Störungen im Funkverkehr verursachen. Der Betrieb dieses Gerätes in einem Wohngebiet wird wahrscheinlich schädliche Interferenzen in dem Fall muss der Benutzer die Störungen auf seine / ihre eigene Kosten zu beheben.

CE Notice

The CE symbol on your WatchGuard Technologies equipment indicates that it is in compliance with the Electromagnetic Compatibility (EMC) directive and the Low Voltage Directive (LVD) of the European Union (EU).



This equipment should be installed and operated with minimum distance 32cm between the radiator & your body.

All operational modes:

2.4GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)

5GHz: 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11a (VHT80)

Industry Canada Certification

This device complies withISED'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.

IMPORTANT NOTE:

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 32 cm between the radiator & your body.

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

Caution

(i) 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;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5250 à 5 350 MHz et de 5470 à 5725 MHz doit être conforme à la limite de la p.i.r.e.;

(iii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;

(iv) the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.

les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, et énoncée à la section 6.2.2 3), doivent être clairement indiqués.

(v) Users should also be advised that 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.

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.

(vi) For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

Dynamic Frequency Selection (DFS) for devices operating in the bands 5250- 5350 MHz, 5470-5600 MHz and 5650-5725 MHz.

Sélection dynamique de fréquences (DFS) pour les dispositifs fonctionnant dans les bandes 5250-5350 MHz, 5470-5600 MHz et 5650-5725 MHz.

This radio transmitter [IC: 4491A-WP9333] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, 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: 4491A-WP9333] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci dessous et ayant 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.

Antenna Type	Model Number	Antenna Gain (dBi)	Remark
Dipole	5718A0394300	5.5/7	For 2.4 GHz and 5 GHz

Europe - EU Declaration of Conformity (Wireless)

This device complies with the essential requirements of the RED Directive 2014/53/EU. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the RED Directive 2014/53/EU:

EN 60950-1:2006+A11+A1+A12+A2:2013

Safety of Information Technology Equipment (ITE)

EN 55024:2010

Immunity for Information Technology Equipment (ITE)

EN 55032:2015/AC:2016

Electromagnetic compatibility of multimedia equipment - Emission requirements.

EN 62311:2008

Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz).

EN 61000-3-2:2014

Limits for harmonic current emissions.

EN 61000-3-3:2013

Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.

EN 300 328 V2.1.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4GHz ISM band and using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of the RED Directive

EN 301 893 V2.1.1

Broadband Radio Access Networks (BRAN); 5GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the RED Directive

EN 301 489-1 V2.1.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V3.1.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems

This device is a 5GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 - 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.



AT	BE	BG	CZ	DK
EE	FR	DE	IS	IE
IT	EL	ES	CY	LV
LI	LT	LU	HU	MT
NL	NO	PL	PT	RO
SI	SK	TR	FI	SE
CH	UK	HR		

Declaration of Conformity

WatchGuard Technologies Inc. hereby declares that the product(s) listed below conform to the European Union directives and standards identified in this declaration.

Product (s):

802.11 a/n/ac + b/g/n Access Point, O-105E

EU Directive(s):

Low Voltage (2014/35/EU)
Electromagnetic Compatibility (2014/30/EU)
Energy-related Products (2009/125/EC)
RoHS (2011/65/EU and 2015/863/EU RoHS)
WEEE Directive 2012/19/EU
The Radio Equipment Directive (2014/53/EU)

Common Standard(s):

EN 60950-1:2006+A11+A1+A12+A2:2013
EN 55024:2010
EN 55032:2015/AC:2016
EN 62311:2008
EN 61000-3-2:2014
EN 61000-3-3:2013

Safety for ITE
Immunity for ITE

Harmonics
Flicker

Wireless Standard(s):

EN 301 489-01 v2.1.1
EN 301 489-17 v3.1.1
EN 300 328 v2.1.1
EN 301 893 v2.1.1

EMC and Radio Spectrum Matters
EMC and Radio Spectrum Matters
Radio Spectrum Matters
Broadband Radio Access Networks

This device complies with Directive 2014/53/EU issued by the Commission of the European Community.

Manufacturer / Hersteller:

WatchGuard Technologies
505 5th Ave S. Suite 500, Seattle, WA 98104 USA Radio
802.11 a/n/ac + b/g/n Access Point

Equipment / Funkanlage:

Type Designation / Typenbezeichnung:

O-105E

Specifications / Technische Daten:

802.11a,b,g,n,ac (2.4Ghz & 5GHz)

Intended Purpose / Verwendungszweck:

Outdoor Access Point

Equipment Class / Betriebsmittel der Klasse:

Class II

Operating temperature

-40° C to +65° C

The above device complies with the essential requirements and other relevant provisions to Directive 2014/53/EU when used for its intended purpose. This equipment may be operated in the USA, Canada, & Europe Union.

Warning! This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Frequency range (MHz)	Max. Transmit Power (W)
Bluetooth	0.00794
WLAN Wi-Fi 802.11x; 2, 4 GHz	0.09977
WLAN Wi-Fi 802.11x; 5 GHz	0.19907

Restrictions: France (i) 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; (ii) 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 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Die oben genannten Gerät entspricht den grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EU, wenn für den vorgesehenen Zweck verwendet werden. Dieses Gerät ist für die Verwendung in den USA, Kanada, and Europäische Union.

Warning! Dies ist eine Einrichtung der Klasse B. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen. In diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen

Einschränkungen: Frankreich –(i)-Geräte, die im Band 5150-5250 MHz ist nur für den Innenbereich, um das Risiko von Störungen des mobilen Satelliten-Systeme, die die gleichen Kanäle (ii) Darüber hinaus reduzieren vorbehalten, sollten Benutzer auch darauf hingewiesen werden, dass die Nutzer von Hochleistungs-Radare bezeichnet werden primäre Benutzer (dh d. sie haben Priorität) der Bänder 5 250-5 350 MHz und 5 650-5 850 MHz und dass diese Radargeräte können Störungen und / oder Schäden an LE-LAN-Geräten verursachen.

Laurence Huang



Signature

Full Name: Laurence Huang

Position: Manufacturing Program Manager

Date: June 12, 2019

Brasil ANATEL

Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo e não pode causar interferência a sistemas operando em caráter primário.

Mexico NOM

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.

Japan VCCI Notice (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、住宅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

RoHS Statement

The member states of the European Union approved directive 2002/95/EC, Restrictions of Hazardous Substances (“RoHS directive”) that became valid on July 1, 2006. It states that all new electrical and electronic equipment put on the market within the member states must not contain certain hazardous materials. This device complies with the European Union’s RoHS directive 2002/95/EC and similar regulations that may be adopted by other countries for European Sales.

WEEE Statement

WEEE is a general set of requirements dictated in the EU Directive 2002/96/EC. This Directive mandated that member EU countries enact regulations governing the Waste of Electrical and Electronic Equipment (WEEE). The Directive, and its individual transpositions into specific country laws and legislation, is aimed at the reduction of WEEE through reuse, recovery, and recycling of WEEE.

WatchGuard is working in partnership with our European Union (EU) distribution partners to ensure that our products are in compliance with the WEEE statutes, and that the recovery of our product per the specific EU country legislative requirements is seamless for our product’s end users. If you have a WatchGuard product that is at its end of life and needs to be disposed of, please contact WatchGuard Customer Care Department at:

U.S. Customers: 877.232.3531

International Customers: +1.206.613.0456

WatchGuard is reasonably confident that our products do not contain any substances or hazardous materials presently banned by any legislation, and do not present a risk due to hazardous materials. WEEE recovery professionals should also note that these products do not have any materials that are of particular high value in their individual form.

REACH Certificate of Compliance

The new EU chemicals policy REACH (Registration, Evaluation, Authorization and restriction of Chemicals) came into effect on June 1, 2007. REACH is Europe's new chemicals legislation, which is applicable in all 27 EU Member States as well as the EFTA European Economic Area (EEA). REACH creates a new system for gathering information, assessing risks to human health and the environment, and authorizing or restricting the marketing and use of chemicals produced or supplied in the EEA. REACH has an impact on EEA producers and importers of finished products and users of chemicals in the course of industrial or professional activities.

WatchGuard supports the overall REACH objective of improving the protection of human health and the environment and will meet all applicable REACH requirements. WatchGuard is strongly committed to working with our customers and supply chain to define and implement the REACH requirements and ensure a smooth transition to compliance.

One of the REACH requirements is that manufacturers and importers have the duty to register substances they are producing or importing. In accordance with the regulations, the products of WatchGuard do not need to be registered for the following reasons:

- WatchGuard does not import more than 1 metric ton per year of a substance as defined by REACH.
- WatchGuard products are non-chemical products that are not designed to release any substance under normal and reasonably predictable application.
- Our products do not contain the listed substances at more than 0.1% by weight of the whole product/part.

