



FortiAP 222C

Register for Support

Register your Fortinet product to receive:

- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La registrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护



March 11, 2015

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Box Includes



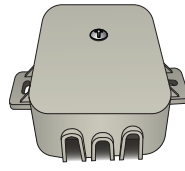
FortiAP 222C



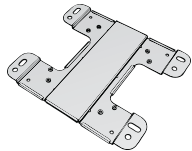
QuickStart Guide



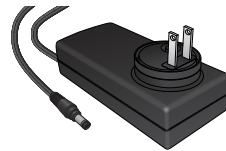
PoE Injector



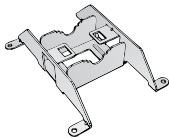
Surge Protector



Wall-Mount Base



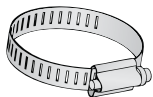
Power Adapter



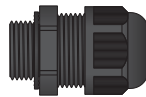
Pole-Mount Bracket



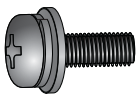
Mounting Screws (8) and Bolts (4)



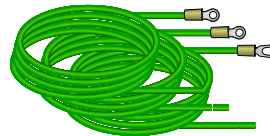
Pole-Mount Strap



Waterproof Connector



Grounding Screw



3 Grounding Cables



5GHz Antennae (2)



2.4GHz Antennae (2)

Before You Begin

Write down details that you may need from your network administrator or ISP.

DSL PPPoE

Username

Password

Cable Modem DHCP

It is normal to not require a hostname, but your ISP may require it.

Hostname

T1/E1, Static broadband, Cable, or DSL with a static IP address

IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

1 Installation

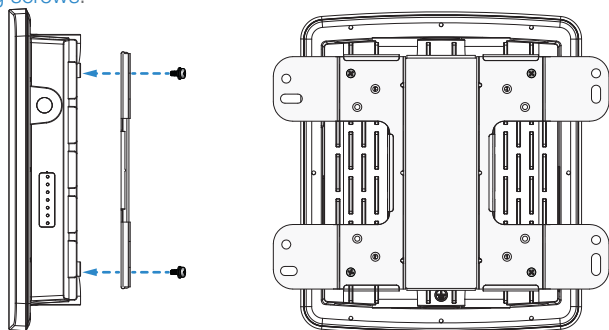
IMPORTANT NOTE: The device must be professionally installed and must use the supplied antennae.

The unit is designed for outdoor use and may be attached to either a [pole](#) or [wall](#). A waterproof connector is supplied to ensure a watertight seal for connecting the Ethernet cable to the device.

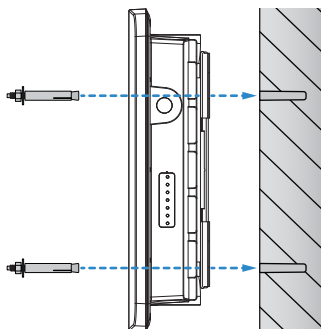
Note: The device can be mounted either outdoors or indoors. The included [PoE injector](#) and [surge protector](#) must be mounted indoors, as they are not weatherproof.

To mount the device on a wall

1. Using the [wall-mount base](#) as a template, mark the location of the [mounting bolt](#) holes on a flat wall surface.
2. [Drill](#) the mounting holes in the marked locations.
3. Fasten the [wall-mount base](#) securely to the back of the unit using the provided [mounting screws](#).



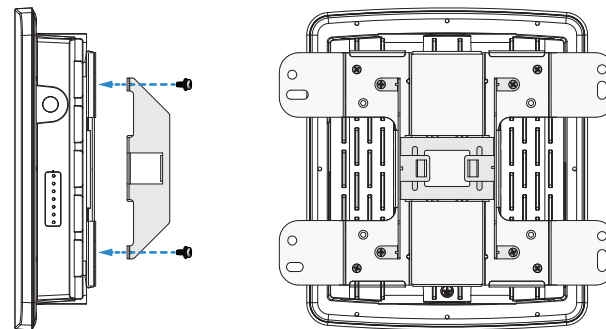
4. Attach the unit and base assembly to the wall using the provided concrete [mounting bolts](#).



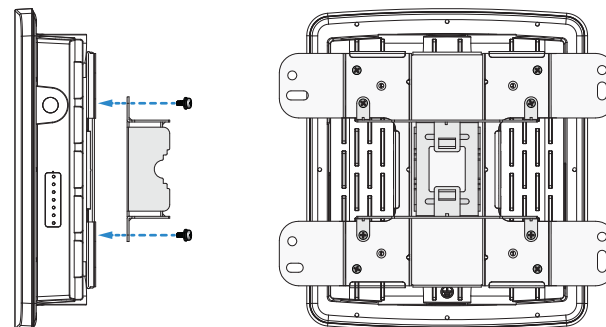
5. Securely tighten the [mounting bolts](#).

To mount the FortiAP unit on a pole

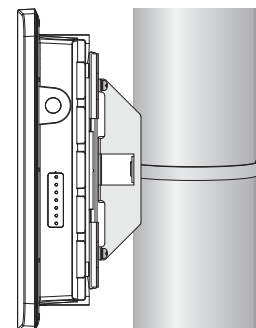
1. Fasten the [wall-mount base](#) securely to the back of the unit using the provided [mounting screws](#).
2. Attach the [pole-mount bracket](#) to the [wall-mount base](#) using with the provided [screws](#).



The pole-mount bracket can be attached either [vertically](#) or [horizontally](#), as required.



3. Loop the provided [pole strap](#) through the slots on the [pole-mount bracket](#) and then around the [pole](#).



4. Tighten the [strap](#) with an appropriate screw driver and ensure that the device is firmly in place.

A Antennae

The FortiAP 222C unit provides dual concurrent radio signals. Use the top antenna mounts to access the **Radio 1** (802.11 b/g/n at 300Mbps) signals, and the bottom antenna mounts (near the waterproof PoE connector) to access the **Radio 2** (802.11 a/n/ac at 867Mbps) signals. To use both radio frequencies concurrently, use all four **WiFi antennae**.

To Install the WiFi antennae

1. Insert the **antenna base** firmly into the appropriate **antenna mount**.
2. Securely hand tighten the **fastening collar**.
3. Repeat for the remaining antennae.

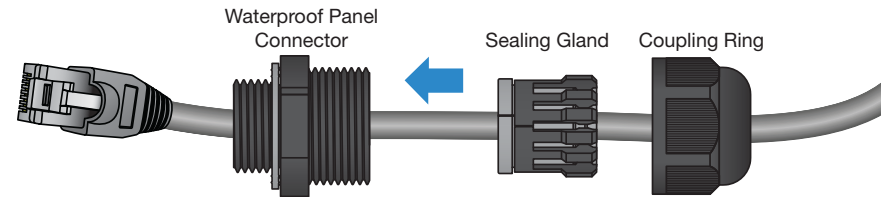


B Cabling

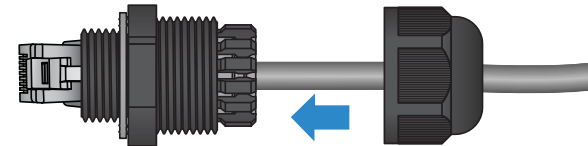
The unit requires 48V DC power, which is delivered by the **PoE injector**, through the **surge protector**, over a straight-through **Ethernet cable**.

To install the weatherproof connector

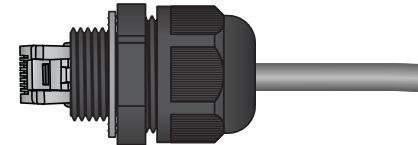
1. Unscrew the **coupling ring** from the waterproof connector, remove the **sealing gland**, and thread the RJ-45 plug through the connector components.



2. Insert the RJ-45 plug into the PoE port on the unit and install the **weatherproof panel connector** onto the **threaded coupling** at the port.
3. Slide the **sealing gland** along the cable into **panel connector**.



4. Thread the **coupling ring** onto the **panel connector** and tighten it until the **sealing gland** is compressed, making a watertight seal on the cable.



2 Connections

Adequate grounding must be provided to the FortiAP unit, the PoE injector, and the surge protector; [grounding lugs](#) and [cables](#) are provided for this purpose. Consult a [certified electrician](#) to ensure that all grounding and cabling is installed in compliance with the local electrical code.

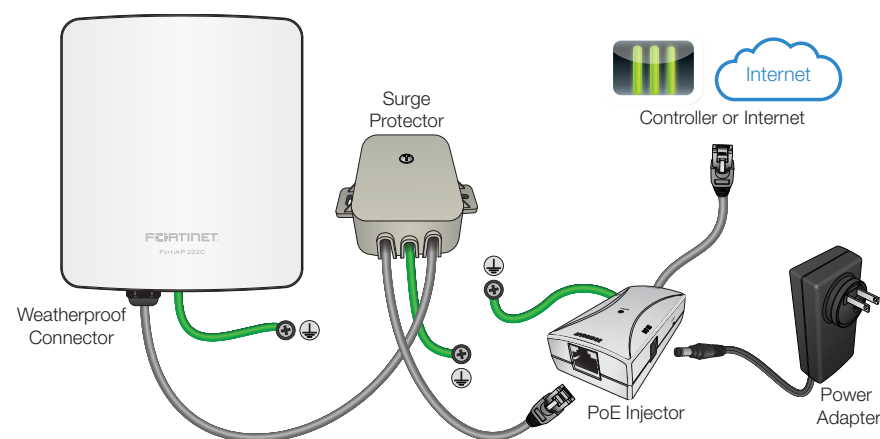
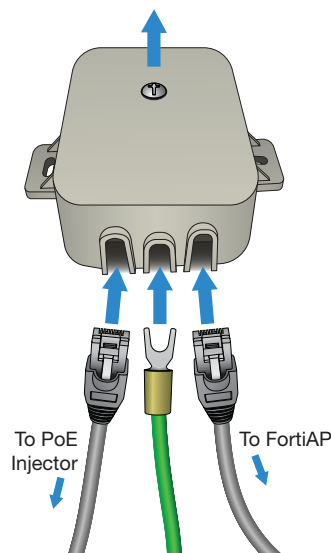
Use an [exterior-grade](#) or [direct burial](#) CAT5 Ethernet cable for connecting the outdoor unit to the surge protector. Use the supplied weatherproof connector to ensure a tight seal at the [PoE port](#) on the unit.

Note: The [PoE injector](#) and [surge protector](#) units are not weatherproof and must be mounted indoors. They should be mounted as close together as possible.

Caution: Do [not](#) connect the [PoE injector](#) to a PoE enabled [Ethernet port](#).

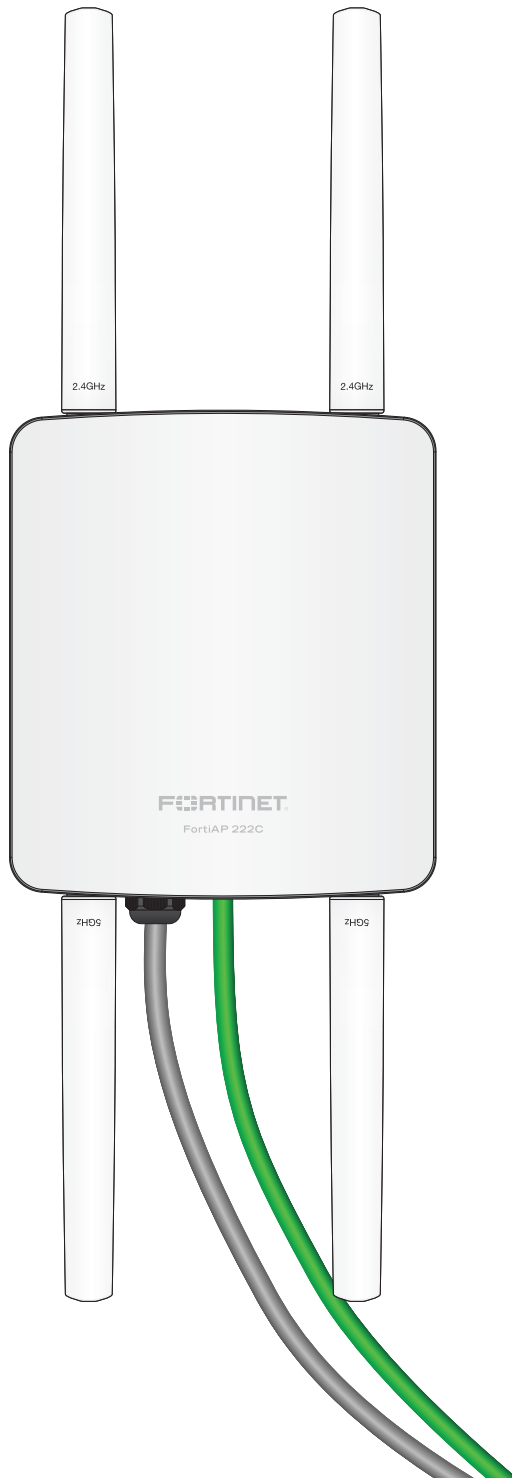
To wire the surge protector

1. Remove the [cover](#) of the surge protector using an appropriate [screwdriver](#).
2. Connect the [ground wire](#) with the spade lug connector to the grounding post between the two ethernet connectors.
3. Connect the straight-through Ethernet cable that will connect to the [FortiAP unit](#) to the Ethernet port on the [right side](#) of the surge protector.
4. Connect the straight-through Ethernet cable that will connect to the [PoE injector](#) the Ethernet port on the [left side](#) of the surge protector.
5. Ensure that the cables comfortably pass through the provided slots on the front of the surge protector.
6. Replace the [cover](#) onto the surge protector using an appropriate [screwdriver](#).



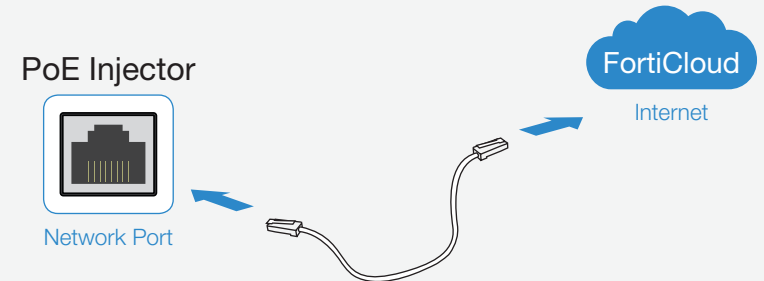
To Connect the FortiAP unit

1. Connect grounding cables to the [grounding lugs](#) on both FortiAP unit (bottom middle of unit), using the provided grounding screw, and the [PoE injector](#), then connect the other ends of the cables to appropriate ground connections.
2. Connect the [surge protector's](#) grounding cable to an appropriate ground connection.
3. Connect the region-specific [AC plug adapter](#) to the [AC power adapter](#) by inserting the round disk into the adapter and rotating clockwise until you hear the disk lock in place.
4. Insert the DC plug of the [power adapter](#) into the [DC IN port](#) on the PoE injector, then plug the AC adapter into an appropriate power outlet. The [PWR LED](#) will light up.
5. Connect one end of a cross-over Ethernet cable to the [Network port](#) on the [PoE injector](#). Connect the other end to the FortiGate [controller](#) or an [Internet connection](#). Do [not](#) connect the [PoE injector](#) to a PoE enabled Ethernet port.
6. Using the supplied weatherproof connector, connect the weatherproof, straight-through Ethernet cable on the [right side](#) of the [surge protector](#) to the [PoE port](#) on the bottom of the FortiAP unit, as described in "[Cabling](#)" on page 9.
7. Connect the straight-through Ethernet cable on the [left side](#) of the [surge protector](#) into the [AP/Bridge port](#) on the [PoE injector](#).



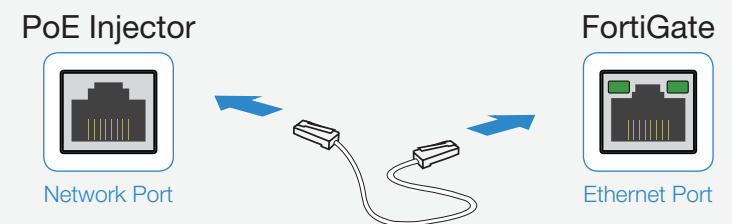
3 FortiAP Setup

A Cloud provisioning with FortiCloud



OR

B FortiGate secured on local network

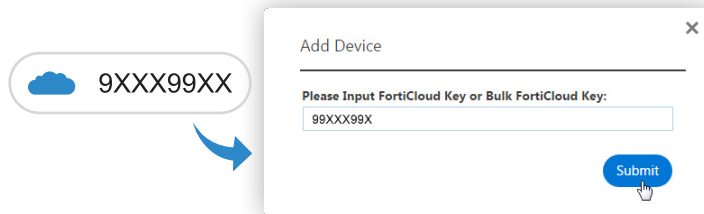


FortiAP Setup Video

<http://video.fortinet.com/video/92/basic-fortiap-setup>

A FortiCloud

1. Visit <http://www.forticloud.com> and [sign in](#) or [create a new account](#).
2. Click the “Add Device” link, enter the [unique FortiCloud key](#) located on your FortiAP device, then click [Submit](#).



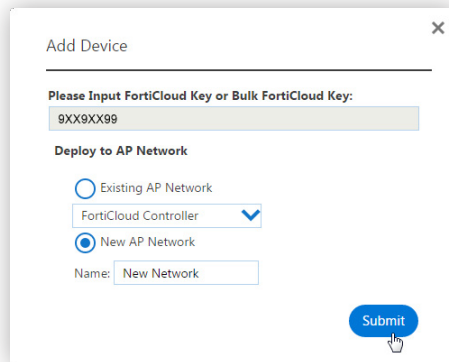
Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XX99X

Submit

3. Deploy the FortiAP to an existing AP network, or create a new AP network, then click [Submit](#).



Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

9XX9XX99

Deploy to AP Network

☐ Existing AP Network

☒ New AP Network

FortiCloud Controller

Name: New Network

Submit

4. Follow the prompts to associate the [FortiAP](#) device to an [SSID](#).
5. Connect your FortiAP to an [Internet connection](#). This can be a modem or another source of Internet connectivity. The FortiAP will self-configure.

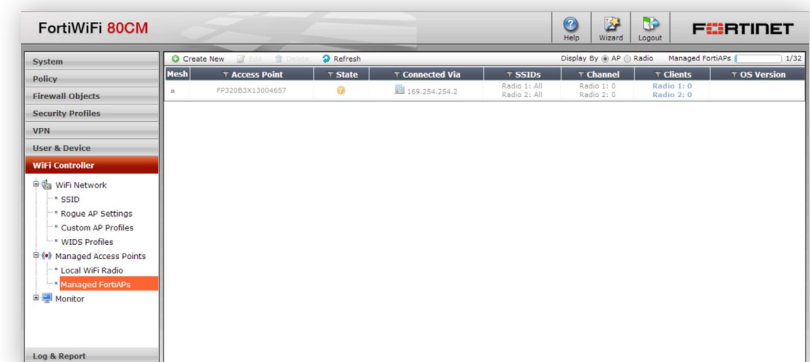
B Deployment through a FortiGate

If your FortiGate is on the same network as your FortiAP:

1. Preauthorize your FortiAP device using your FortiGate. If you are not familiar with deploying a FortiAP using your FortiGate, refer to the “Access Point Deployment” section of the [Deploying Wireless Networks Guide](http://docs.fortinet.com) found at <http://docs.fortinet.com>.
2. Plug your FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can authorize your FortiAP via the FortiGate after you have connected the FortiAP to your local Ethernet.
2. Within [two minutes](#) of connecting the FortiAP to your FortiGate, the device will appear on the [Managed FortiAP](#) page in the [Web-based Manager](#): authorize the device and assign a profile to the device.

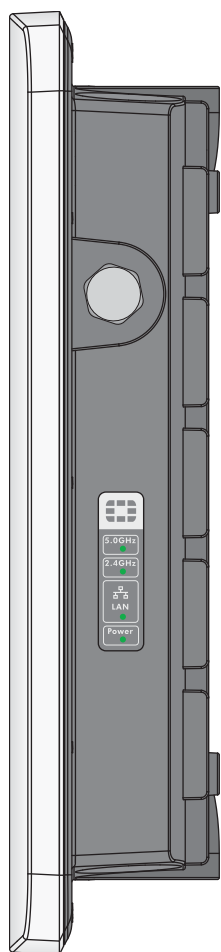


If your FortiGate is not on the same network as your FortiAP:

1. [Log in](#) to the FortiAP directly (IP address: [192.168.1.2](#)) with username [admin](#) and [no password](#), and specify the [IP address](#) of the controlling FortiGate.
2. Connect to the FortiAP via the [CLI](#) using the instructions in the “[Connecting to FortiAP CLI](#)” section of the [Deploying Wireless Networks guide](#).
3. Specify the [IP address](#) of the controlling FortiGate:

```
cfg -a AC_IPADDR_1=0.0.0.0
cfg -c
```

where [0.0.0.0](#) is the address of the FortiGate.
4. The FortiAP will connect to the FortiGate, and then you can [authorize](#) the FortiAP.



5.0GHz

- Green: 5GHz wireless radio enabled
- Flashing Green: Transmitting and receiving data
- Off: No link detected or disabled

2.4GHz

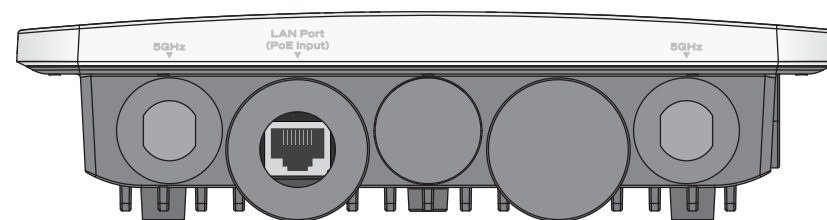
- Green: 2.4GHz wireless radio enabled
- Flashing Green: Transmitting and receiving data
- Off: No link detected or disabled

LAN

- Green: Connected
- Flashing Green: Transmitting and receiving data
- Off: Not connected

Power

- Green: The unit is on
- Flashing Green: The unit is booting up
- Off: The unit is off

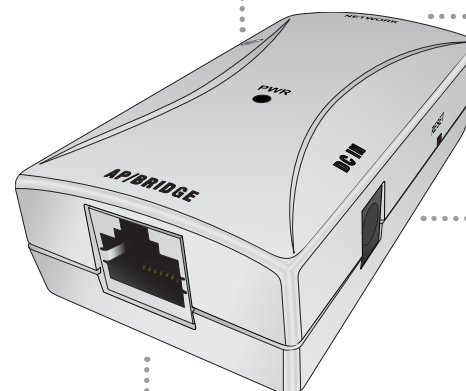


Ethernet Port (RJ-45)

Gigabit Ethernet interface with Power over Ethernet powered device (PoE PD) support.

Ground Lug

Grounding cable connection



Network Port (RJ-45)

Gigabit Ethernet port for connection to your network or the Internet

DC In

Power adapter connection
100-240V AC, 50-60Hz, 1.5A max

AP/Bridge Port (RJ-45)

48V DC PoE output.

Cautions and Warnings

Environmental Specifications

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Safety

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre — Pour éviter d'endommager votre matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

Power over Ethernet (PoE) — Do not connect this device to PoE networks with routing to the outside plant. Use this equipment in a Network Environment 0 per IECTR 62101. Do not use PoE injectors that are not IEEE 802.3af compliant. They may damage your device.

Alimentation par Ethernet — Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce matériel est uniquement connecté aux réseaux PoE sans installation externe de routage. Cet appareil est conforme aux normes IEEE 802.3af. Ne pas utiliser d'autres injecteurs d'alimentation non conformes sous peine d'endommager votre matériel.

The connecting cable between the outdoor equipment and the indoor ITE devices should comply with Class 3 wiring methods as listed in NEC, Table 725.154(G) for Class 3 Cable Substitutions

Le câble connectant l'équipement extérieur et ceux d'intérieur de type ITE doit être conforme avec les méthodes de câblage de classe 3 tel que listé dans le standard NEC, Table 725.154(G) pour les câbles de substitutions de classe 3.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise. Cette séparation protège la borne de mise à la terre qui doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

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: (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.

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 27cm between the radiator & your body.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

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

This device complies with RSS-210 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-210 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 :

- (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;
- (ii) 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:

- (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 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-LL.

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 27cm 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 27cm de distance entre la source de rayonnement et votre corps.

European Conformity (CE) - EU

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.



National Telecommunications Commission (NCC) – Taiwan

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赫茲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/cm²， 本產品使用時建議應距離人體 27cm。

Professional installation instruction

- Installation personnel
This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the settings.
- Installation location
The product shall be installed at a location where the radiating antenna can be kept 27cm from nearby person in normal operation condition to meet Regulatory RF exposure requirement.
- External antenna(s)
Use only the antenna(s) that have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power that may lead to the violation of FCC/IC limit and is prohibited.
- Warning
Please carefully select the installation position and ensure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

- Installation
Ce produit est conçu pour un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et règle similaires. L'utilisateur ne doit pas tenter d'installer ou de modifier les paramètres.
- Emplacement d'installation
En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 27cm entre l'antenne émettrice et les personnes.
- Antenne externe(s).
Utiliser uniquement l'antenne (s) approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/IC, ce qui est interdit.
- Avertissement
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