

# 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](#).

**Note:** The device can be mounted either outdoors or indoors. The included [PoE injector](#) must be mounted indoors, as it is not weatherproof.

**A** Antennae  
(p.7)

**B** Cabling  
(p.8)

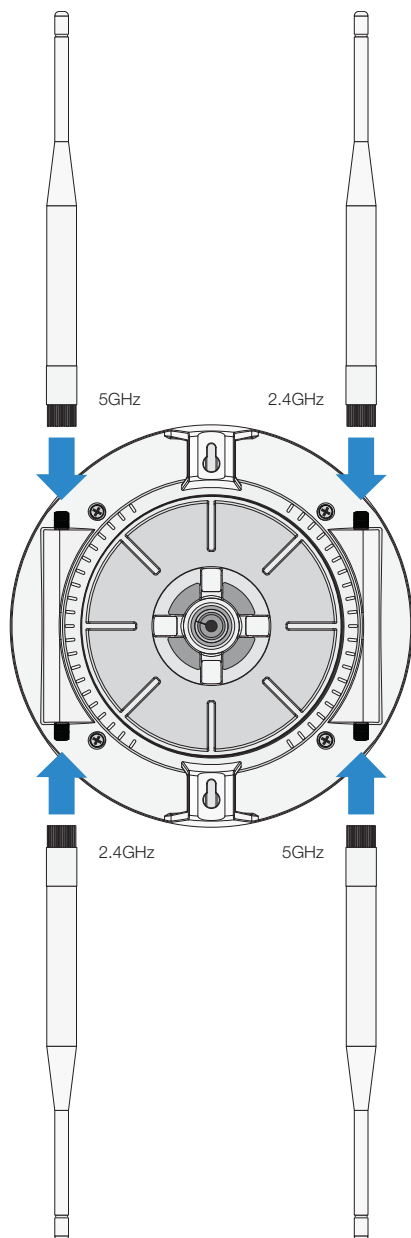
**C** Mounting  
(p.9)

## A Antennae

The FortiAP 224D unit provides dual concurrent radio signals. Use the 2.4GHz antenna mounts to access 802.11b/g/n signals, and the 5GHz antenna mounts to access 802.11a/n 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.

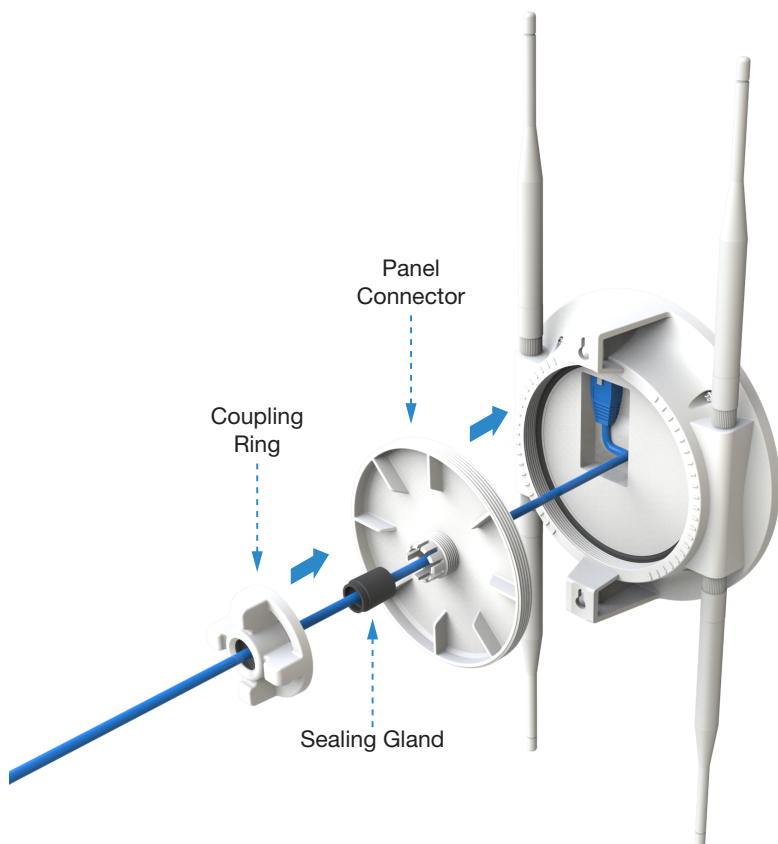


## B Cabling

The unit requires 48V DC power, which is delivered by the [PoE injector](#), over a straight-through [Ethernet cable](#).

### To install the cable

1. Unscrew the [coupling ring](#) from the back of the device, remove the [sealing gland](#), then unscrew the panel connector.
2. Thread the RJ-45 plug through the components and insert it into the PoE port on the unit.
3. Screw the [panel connector](#) onto the back of the device, being careful not to pinch the Ethernet cable.
4. Slide the [sealing gland](#) along the cable into [panel connector](#).
5. Thread the [coupling ring](#) onto the [panel connector](#) and tighten it until the [sealing gland](#) is compressed, making a watertight seal on the cable.

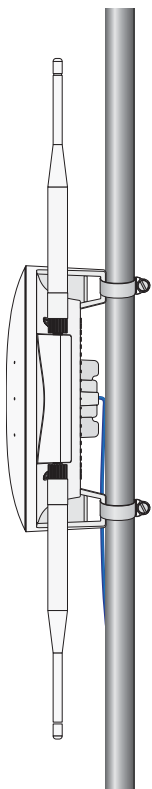
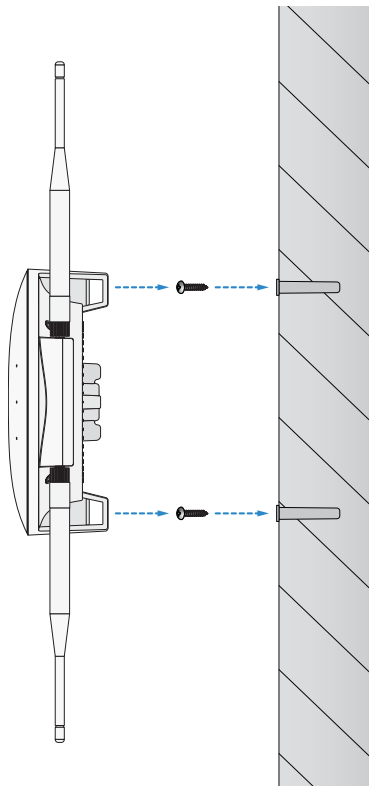


## Mounting

The unit is designed for outdoor use and may be attached to either a [pole](#) or [wall](#).

### To mount the device on a wall

1. Insert the [mounting anchors](#) into an appropriate wall.
2. Screw the [mounting screws](#) into the anchors, ensuring that enough of the screw is exposed to allow for mounting the device.
3. Place the device onto the mounting screws, then slide the unit downwards to lock it into place.



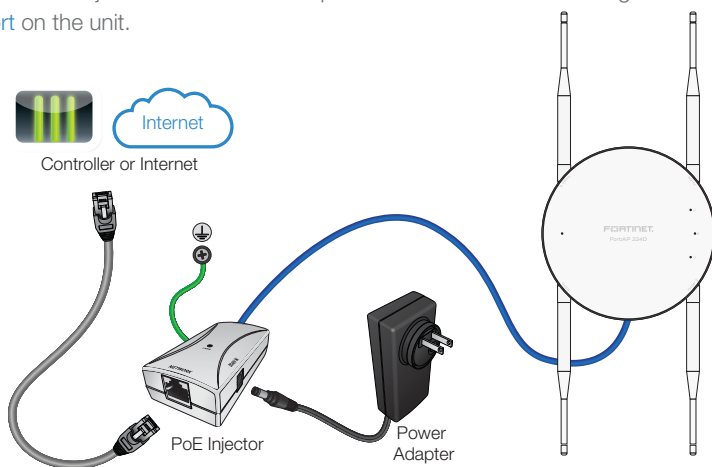
### To mount the FortiAP unit on a pole

1. Loop the provided [pole straps](#) through the slots on the back of the device, then around the [pole](#).
2. Tighten the [strap](#) with an appropriate screw driver and ensure that the device is firmly in place.

## 2 Connections

Adequate grounding must be provided to the FortiAP unit and the PoE injector. 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 PoE injector. Use the weatherproof connection to ensure a tight seal at the [PoE port](#) on the unit.



**Note:** The [PoE injector](#) is not weatherproof and must be mounted indoors.

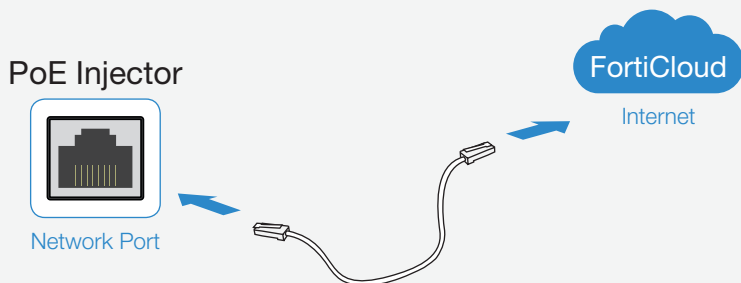
**Caution:** Do [not](#) connect the [PoE injector](#) to a PoE enabled [Ethernet port](#).

### To Connect the FortiAP unit

1. Connect grounding cables to the [grounding lugs](#) on the [PoE injector](#), then connect the other ends of the cables to appropriate ground connections.
2. 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.
3. Insert the DC plug of the [power adapter](#) into the [DC48V IN port](#) on the PoE injector, then plug the AC adapter into an appropriate power outlet. The [PWR LED](#) will light up.
4. 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.
5. Using the weatherproof connection, connect an Ethernet cable to the FortiAP unit, as described in “[Cabling](#)” on page 8.
6. Connect the Ethernet cable from the device into the [AP/Bridge port](#) on the [PoE injector](#).

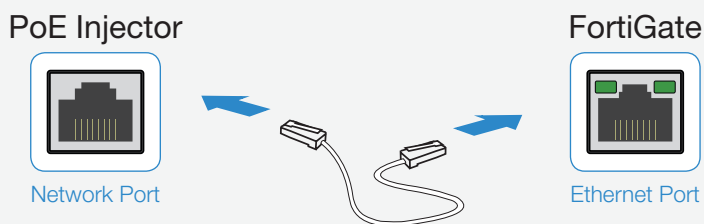
### 3 FortiAP Setup

#### A Cloud provisioning with FortiCloud



OR

#### B FortiGate secured on local network

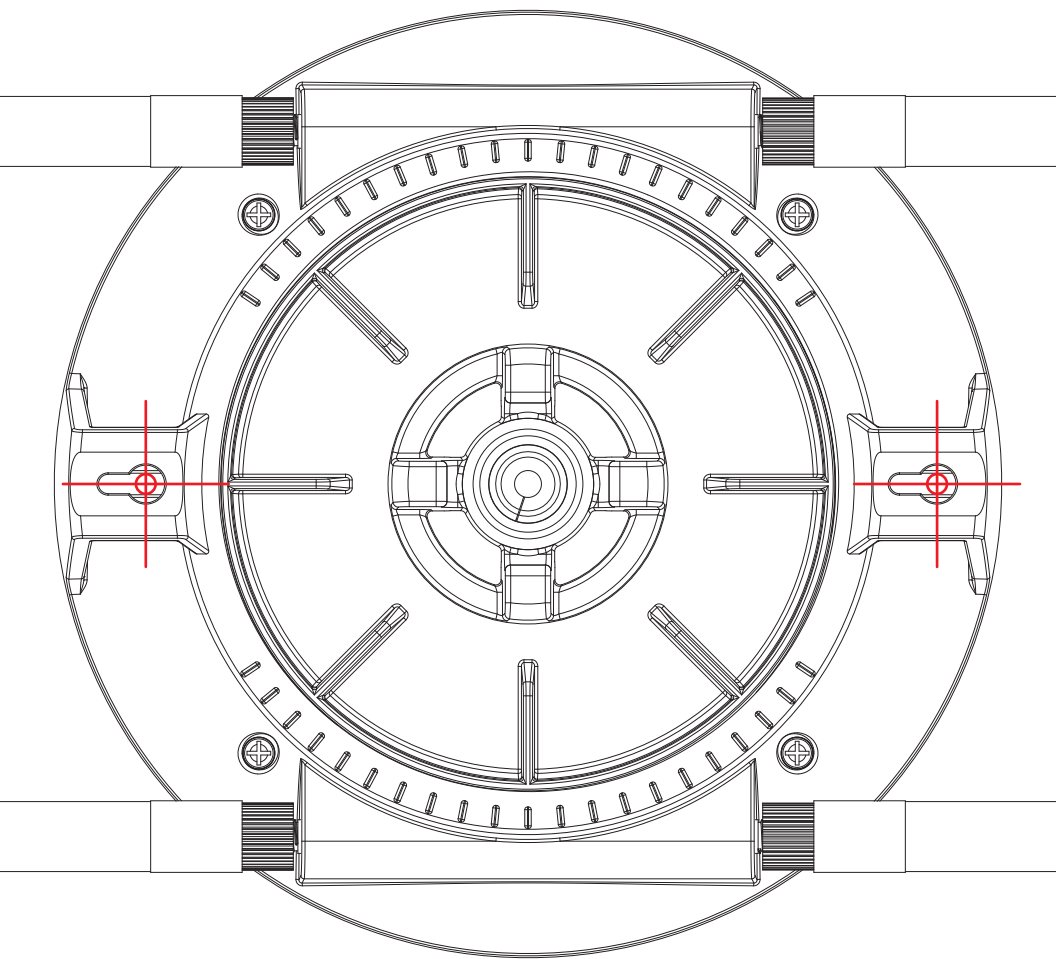


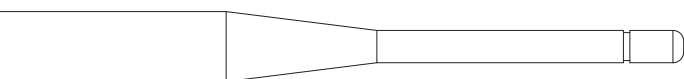
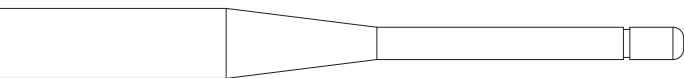
FortiAP Setup Video

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

## 4 Mounting Template

Use this page to mark the location of the screws on the wall when wall mounting the device.

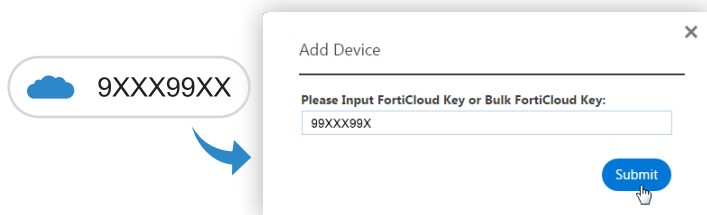






# A FortiCloud

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](#).



9XXX99XX

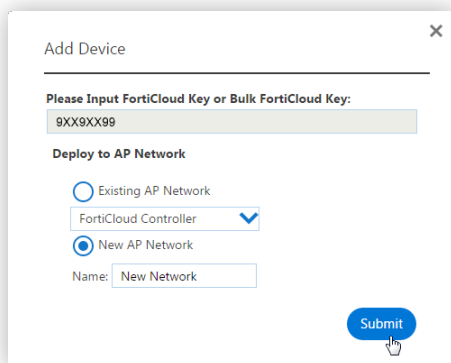
Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XXX99X

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

FortiCloud Controller

☒ New AP Network

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](#).

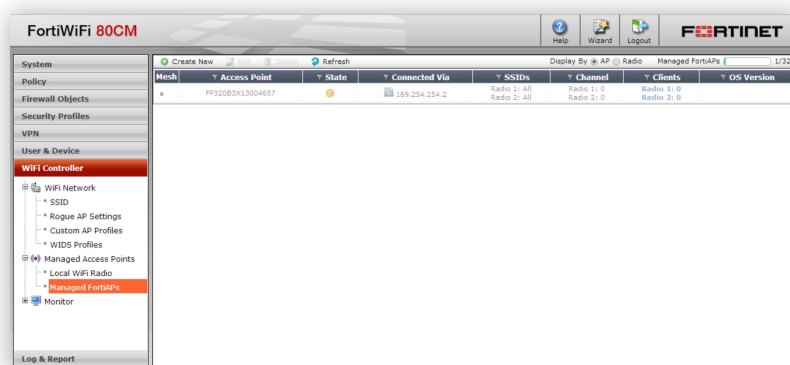
## B Deployment through a FortiGate

### 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.



#### Status

- Green: Normal operation
- ⦿ Flashing Green: Booting or discovering wireless controller
- Amber: Restarting or system fault
- ⦿ Flashing Amber: Self testing, loading firmware or connecting with wireless controller
- Off: The unit is off

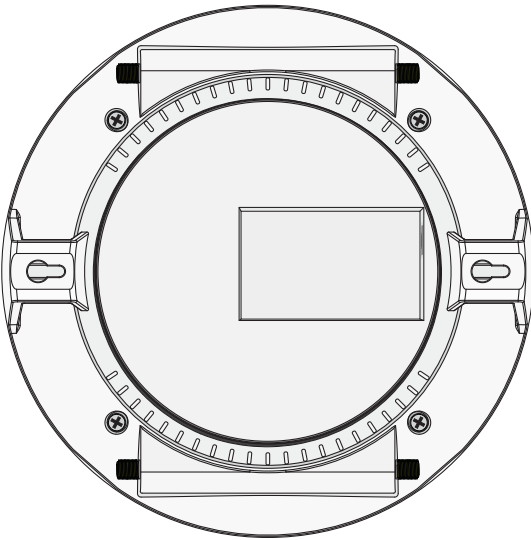
#### LAN

- Green: Connected at 1Gbps
- ⦿ Flashing Green: Link activity at 1Gbps
- Amber: Connected at 100Mbps
- ⦿ Flashing Amber: Link activity at 100Mbps
- Off: No link established

#### WiFi

- Green: Wireless interface is up on at least one radio
- ⦿ Flashing Green: Wireless interface is transmitting and receiving data
- Off: Wireless interface is down or radio is disabled

# Device Guide



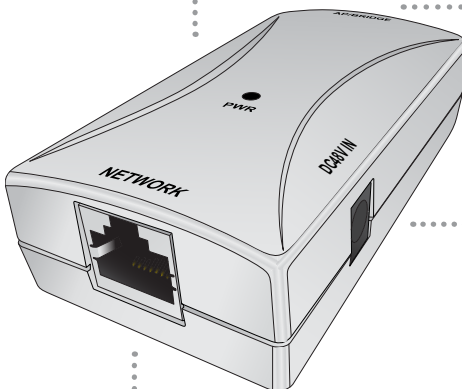
## Ethernet Port (RJ-45)

Gigabit Ethernet interface with Power over Ethernet powered device (PoE PD) support, 802.3af.



## Ground Lug

Grounding cable connection



## AP/Bridge Port (RJ-45)

48V DC PoE output.

## DC In

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

## Network Port (RJ-45)

Gigabit Ethernet port for connection to your network or the Internet

# Cautions and Warnings

## Environmental Specifications

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

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'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 IEC 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 IEC 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.

The Console port is not intended to be connected to the computer after the outdoor installation is completed.

La porte Console n'est pas destinée à être raccordée à l'ordinateur après l'installation extérieure faite.

## Regulatory Compliance

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of 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 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 residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it 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.

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

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

This device complies with Industry Canada licence-exempt RSS standard(s). 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 radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### Industry Canada (IC RSS) – Canada

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm 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 25cm de distance entre la source de rayonnement et votre corps.

**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 (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:** Les dispositifs fonctionnant dans la bande 5 150-5 250 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. 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.

This device has been designed to operate with an antenna having a maximum gain of 5 dBi for 2.4GHz and 5 dBi for 5GHz. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 5 dBi pour 2,4 GHz et 5 dBi pour 5GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique aux autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication réussie.

#### Professional installation instruction

##### 1. 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.

##### 2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 25cm from nearby person in normal operation condition to meet Regulatory RF exposure requirement. The installation applies to both indoor and outdoor location.

##### 3. 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.

##### 4. 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

##### 1. 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.

##### 2. 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 25cm entre l'antenne émettrice et. L'installation s'applique aux emplacements intérieur et extérieur.

##### 3. 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.

##### 4. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

### 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.



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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law. If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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