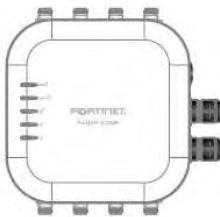




FortiAP S422E

Information

Box Includes



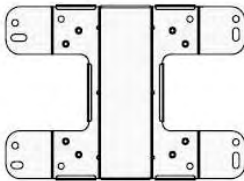
FortiAP S422E



QuickStart Guide



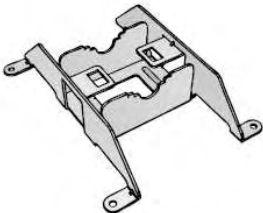
Information Supplement



Wall Mount Bracket



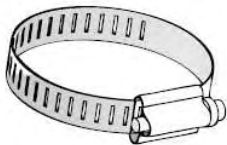
Mounting Screws (8) & Bolts (4)



Pole Mount Bracket

1

Box Includes



Pole Mount Strap



Grounding Screw



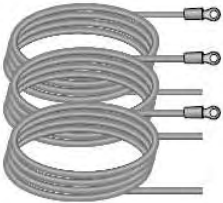
PoE Injector



Power Adapter



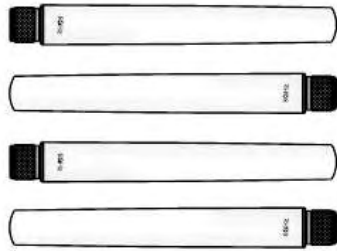
Surge Protector



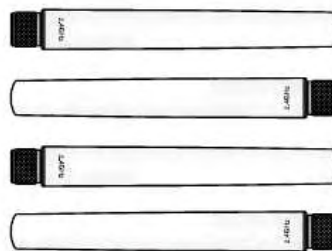
3 Grounding Cables

2

Box Includes



5GHz Antenna (4)



2.4GHz Antenna (4)

Installation

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

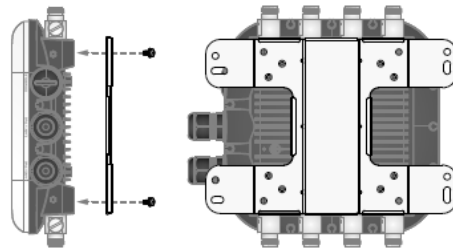
The unit is designed for outdoor use and may be attached to either a pole or wall. A waterproof connector is supplied to ensure a watertight seal for connecting the Ethernet cable to the device.

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.

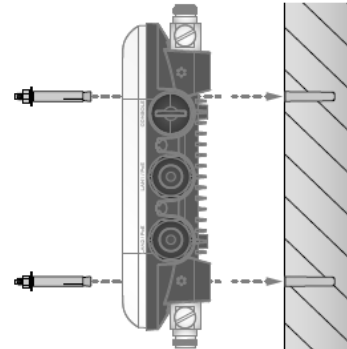
To mount the device on a wall

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 mounting bolts.



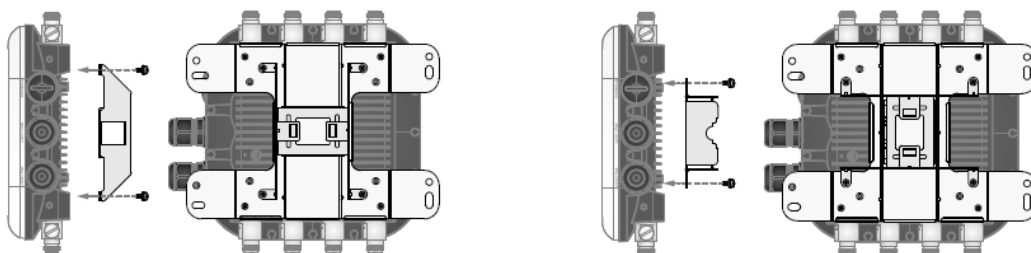
5. Securely tighten the mounting bolts.



5

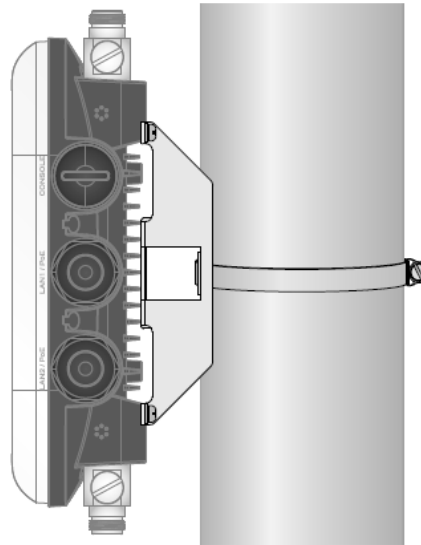
To mount the FortiAP unit on a pole

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.



6

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.



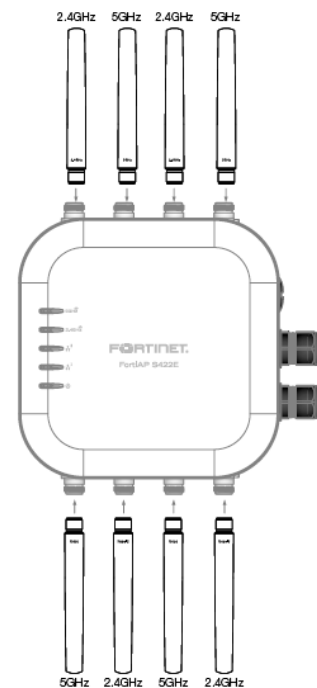
7

Antennas

The FortiAP S422E unit provides dual concurrent radio signals. Use the 2.4GHz antennas to access Radio 1 (802.11 b/g/n at 600Mbps) signals, and the 5GHz antennas to access Radio 2 (802.11 a/n/c at 1733Mbps) signals. To use both radio frequencies concurrently, use all eight WiFi antennas.

To Install the WiFi antennas

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



8

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.

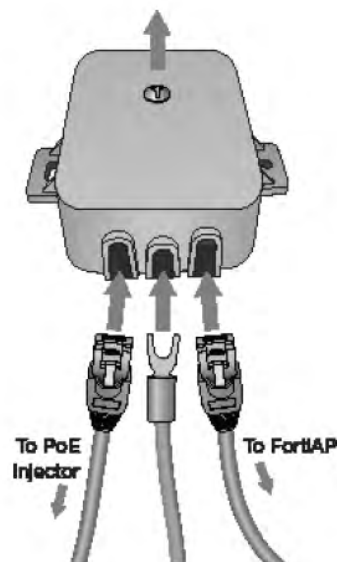
Note: The PoE injector and surge protector units are not weatherproof and must be mounted indoors. They should be mounted as close together as possible.

Caution: Do not connect the PoE injector to a PoE enabled Ethernet port.

9

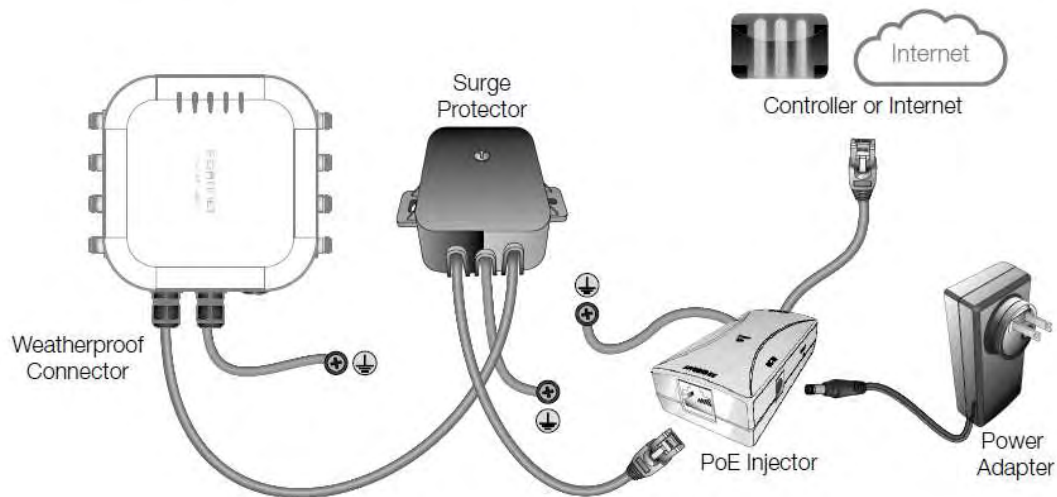
To wire the surge protector

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.



10

To Connect the FortiAP unit

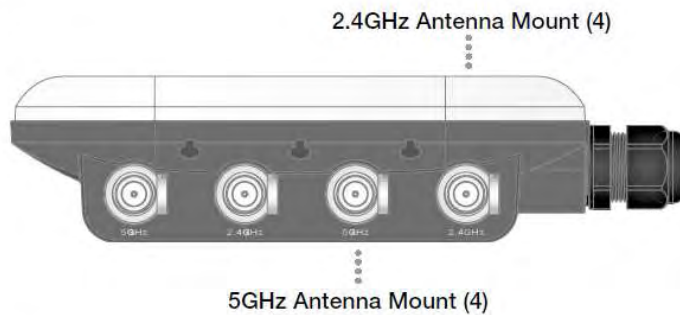


11

1. Connect grounding cables to the grounding lugs on both the 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 Power 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. Connect the weatherproof, straight-through Ethernet cable on the right side of the surge protector to one of the PoE ports on the bottom of the FortiAP unit.
7. Connect the straight-through Ethernet cable on the left side of the surge protector into the AP/Bridge port on the PoE injector.

12

Device Guide



Ground Lug

Grounding cable connection



Network Port (RJ-45)

Gigabit Ethernet port

AP/Bridge Port (RJ-45)

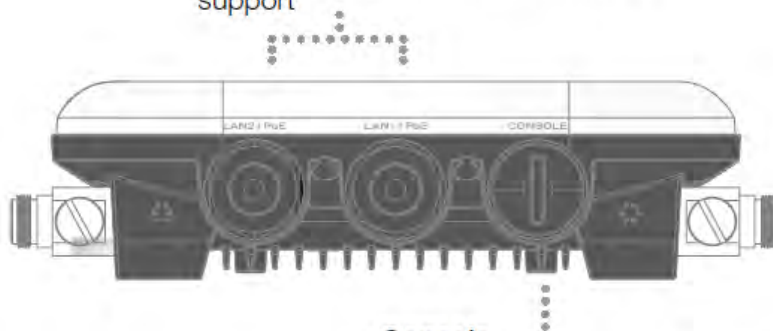
48V DC PoE output.
13

DC In

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

Ethernet Port (RJ-45)

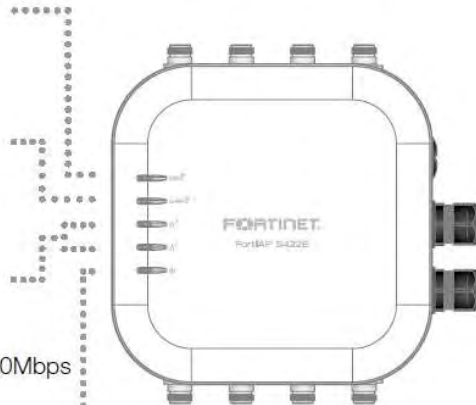
Gigabit Ethernet port with Power over Ethernet (PoE) Powered Device (PD) support



Console

Optional management computer connection
Provides access to the Command Line Interface (CLI)

- Radio 2 - 5GHz** 
- Green: Radio is enabled
 - ◉ Flashing Green: Transmitting & receiving at 5G
 - Off: Radio disabled or off
- Radio 1 - 2.4GHz** 
- Green: Radio is enabled
 - ◉ Flashing Green: Transmitting & receiving at 2.4G
 - Off: Radio disabled or off
- LAN 1 & 2** 
- Green: Connected at 1Gbps
 - ◉ Flashing Amber: Transmitting 100Mbps
 - ◉ Flashing Green: Transmitting & receiving data 1000Mbps
 - Off: No link established
- Power** 
- Green: Power on & ready
 - ◉ Amber: Power Reserve
 - Off: No power



Cautions and Warnings

Environmental specifications

Ambient operating temperature: -30°C to 60°C

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

Warning: Equipment intended for installation in Restricted Access Location.

Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

This equipment is to be connected only to PoE networks (LPS) and maybe installed outdoors except the Surge Protector, the PoE Injector and its external LPS Power Supply which are intended for indoor installation only.

Ce produit doit être connecté uniquement aux réseaux POE et peut être installé à l'extérieur sauf le protecteur de surtension, l'injecteur PoE et son alimentation LPS externe qui sont destinés à une installation intérieure seulement

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.

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 a une borne de mise à la terre séparé sur le dos de l'appareil, en plus de la borne de mise à la terre de la fiche de raccordement. Cette borne de mise à la terre séparée doit être connecté en permanence à la terre avec un conducteur vert avec la taille bande jaune de minimum # 14 AWG et la connexion doit être installé par un personnel qualifié.

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 is intended to be supplied by 48-57Vdc from POE, (marked LPS or Class 2).

Ce produit est fourni par la puissance de 48-57VDC alimentation POE, (Marqué LPS ou classe 2)

PoE input cable type should be CL3, CL3P, CL3R, CL3X, marked "SUNLIGHT RESISTANT", "SUN. RES.", or "SR," and "water resistant" or "W".

Le type de câble PoE d'entrée doit être CL3, CL3P, CL3R, CL3X marqué "SUNLIGHT RESISTANT", "SUN RES." Ou «SR», et "waterproof" ou "W".

If further assistance is needed with purchasing a power source and POE input cable, please contact Fortinet, Inc.

Si vous avez besoin de plus d'aide à l'achat de l'alimentation et le fil d'entrée PoE, s'il vous plaît communiquer avec Fortinet, Inc.

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 Notices

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 37cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

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

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

Innovation, Science and Economic Development (ISED) – Canada

This device complies with ISED 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'ISED 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.

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) 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
- (iii) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 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) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 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;
- (iii) 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 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 37cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 37cm de distance entre la source de rayonnement et votre corps.

This device has been designed to operate with an antenna having a maximum gain of 4.5 dBi for 2.4GHz and 6.3 dBi for 5GHz. Antenna having a higher gain is strictly prohibited per regulations of ISED. The required antenna impedance is 50 ohms.

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. 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 4.5 dBi pour 2,4 GHz et 6.3 dBi pour 5GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d'ISED. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'ISED, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISED. 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.

This radio transmitter (IC: 7280B-28166033 / Model: FAP-S422E) has been approved by ISED to operate with the antenna type listed below with maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 7280B-28166033 / Model: FAP-S422E) a été approuvé par ISED 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, sont strictement interdits pour l'exploitation de l'émetteur.

Frequency	Brand	Model	Type	Gain	Connector
2.4GHz	Senao Networks, Inc.	DA2105	Dipole	4.5	N Plug
5GHz	Senao Networks, Inc.	DA2107	Dipole	6.3	N Plug

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 37cm 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/ISED 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.

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 37cm 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/ISED, 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.



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.

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When a "work that uses the Library" uses material from a header

file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. 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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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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