



FortiAP U422EV

Quick Start Guide

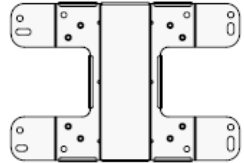
FAP-U422EV Box Includes



FortiAP U422EV



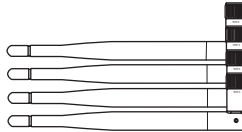
QuickStart Guide



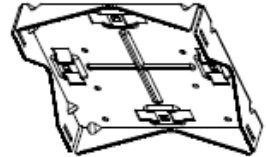
Wall Mount Bracket



Mounting Screws (8) & Bolts (4)



5 GHz Antennas (4)
2.4 GHz Antennas (4)



Pole Mount Bracket

FAP-U422EV Box Includes



Grounding Screw



PIN060 POE Adapter



Grounding Cable (1)



Large Pole Mount Strap (2)



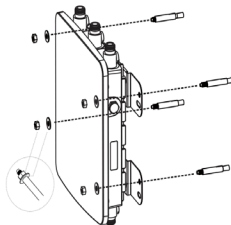
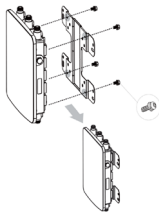
Small Pole Mount Strap (2)

Installation

IMPORTANT: Supported only from FortiWLC Release 8.4.0 or later and FortiGate with FortiOS Release _____ and later.

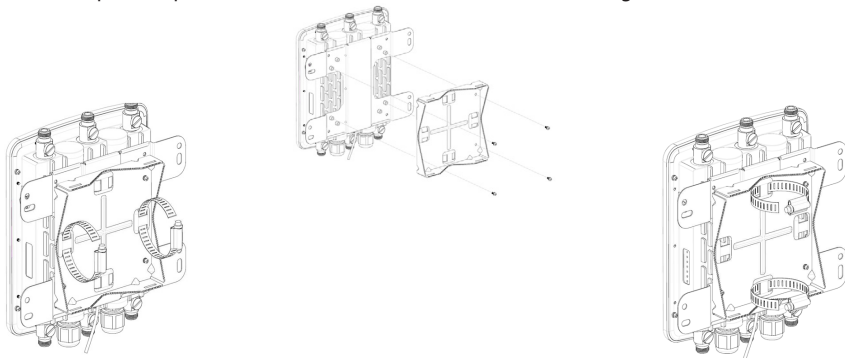
To attach the unit to a wall using the wall mount bracket:

1. Using the wall-mount base as a template, mark the location of the mounting bolt holes on a flat wall surface. Drill the mounting holes in the marked locations and hammer the bolts into the openings.
2. Place the lock and fat washer on the round head screws and drive the screws to attach mounting base to the back of the Access Point.
3. Attach the device onto the wall by tightening the bolts fat washers and nuts to secure the mounting base to the mounting surface.



To attach the unit to a pole vertically or horizontally using the pole mount straps.

1. Place the lock and fat washer on the cap screws and drive the screws to attach the mounting base to the back of the Access Point.
2. Use the suitable sides of the pole mount bracket to mount AP on the pole.
3. Determine which mounting, vertical or horizontal to be assembled. Drive the four round head screws to attach the Pole Mount Bracket to the mounting base.
4. Thread the pole straps to the bracket for vertical or horizontal mounting.



Antennas

The FortiAP unit provides dual concurrent radio signals. Use the 2.4GHz antennas to access 2.4GHz radio (IEEE 802.11b/g/n) signals and the 5GHz antennas to access 5GHz radio (IEEE 802.11a/n/ac) signals. To use both radio frequencies concurrently, use all eight WiFi antennas.

Installing 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

Antennas



AP Mounting and Antenna Position

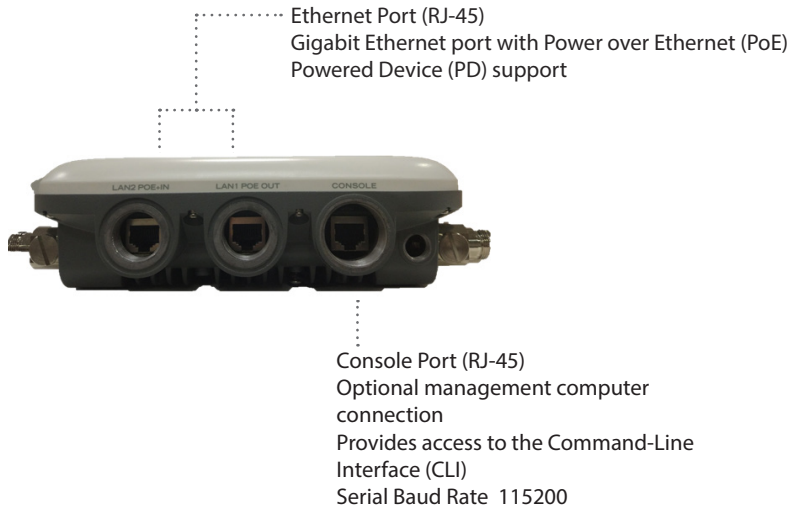
FAP U422EV

Wall Mounted



All antennas are vertically oriented.

Ports



LED Status



LAN1 & LAN2

-  Amber: Connected and transmitting at 10/100Mbps.
-  Blinking Amber: Transmitting and receiving data.
-  Green: Connected and transmitting at 1000Mbps.
-  Blinking Green: Transmitting and receiving data.
-  Off: No link detected.

WiFi (5GHz & 2.4GHz)

-  Green: Wireless Radio enabled.
-  Blinking Green: Receiving and transmitting data.
-  Off: No link detected.

Power

-  Green: Device is powered up.
-  Off: Device is powered down.



Connecting

Using the provided mounting hardware, attach the FortiAP unit to the wall or ceiling.

Adequate grounding must be provided to the FortiAP unit in compliance with the local electrical code.

This device complies with the IEEE 802.3at PoE specifications.

Supports 4x4 MIMO and a default TX power of +24dBm in 2.4GHz channels and +23dBm in 5.0GHz channels.

Caution: This device complies with IEEE 802.3at PoE specification. Do not use any PoE injectors that are not IEEE 802.3at compliant, as they may damage your device.

To connect the FortiAP unit:

1. Insert an Ethernet cable into the LAN1 or LAN2 port of the FortiAP unit.
2. Insert the other end of the Ethernet cable into your switch.

The power LED will light up.

Supported Controller Types

FAP-U422EV is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and FortiCloud controllers.

The FortiAP boots up with the FortiWLC AP image (factory default) and tries to discover the supported controllers. The FortiAP connects to the controller that is first discovered.

If the FortiGate or the Forti Cloud controller is found, the FortiAP reboots with the FortiAP image.

To bring the FAP-U422EV back to factory default setting, run the reload default factory command on the FortiAP image.

Zero Configuration

The FortiAP unit is designed to require no configuration in most networks. Zero configuration mode works if the unit is directly connected to a Wireless LAN Controller (WLC) or is on the same layer-2 network and subnet as the FortiWLC, or if the unit is directly connected to the FortiGate LAN Controller or is on the same layer-3 network and subnet as the FortiGate or FortiCloud controller.

If the FortiAP wireless controller's IP address cannot be determined using Zero Configuration mode, or if the network uses static IP addresses, it can be configured to use a static IP address.

Zero Configuration

To enable the FortiAP using Zero Configuration:

1. After connecting the FortiAP unit as described in the previous chapter, the unit goes through its boot procedure and requests an IP address from the DHCP server.
2. If the IP address is retrieved successfully, the FortiAP enters discovery mode to locate a Controller.

The discovery modes for the FortWLC controller are:

- DHCP option 43
- DHCP option 138
- DNS
- Mesh PNP
- Static Controller IP address

The discovery modes for FortiGate controller are:

- DHCP option 138
- DNS
- Multicast
- Broadcast
- Static Controller IP address

Zero Configuration

The discovery modes for FortiCloud controller are:

- Auto
 - FortiCloud
3. Verify that the FortiAP has successfully connected to the controller in the FortiWLC/FortiCloud/FortiGate WebUI.

Manual IP Configuration & Controller Discovery

To enable the FortiAP with a static IP address:

1. Connect the FortiAP device to a separate private switch or hub.
2. Access the AP console through the serial port.
3. To configure FortiAP's own IP address, type **ip config net static address** *<ip-address>* **netmask** *<netmask ip-address>* **gateway** *<gateway ip-address>*.
4. [FortiWLC only] To discover the controller, type **ip config l2l3** *<l2only | l2preferred | l3only | l3preferred>*.
5. To configure a designated wireless controller's IP address, type **ip config controller name** *<controller ip-address>*.
6. Save the configuration by typing **ip config save**.
7. Unplug the FortiAP unit and plug it back in order for the configuration to take effect.
8. Move the FortiAP to the intended deployment location and connect the Ethernet cable.

Cautions and Warnings

Environmental specifications

Ambient operating temperature: -30C to 60C

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.

Caution: This equipment is to be used in a Network Environment 0 per IEC/EN 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC/EN 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied 54 Vdc from PoE source. Le produit doit être alimenté par à de 54 Vdc (PoE).

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.

PoE input cable type should be CL3, CL3P, CL3R, CL3X, marked "SUN-LIGHT 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.

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

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 42 cm 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.

Professional installation instruction

1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 42cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

3. External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC limit and is prohibited.

4. Installation procedure

Please refer to user's manual for the detail.

Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

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

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development (ISED) – Canada

This device complies with ISED license-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.

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.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 49 cm 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 49 cm de distance entre la source de rayonnement et votre corps.

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.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

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.

Attention: Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN

This device has been designed to operate with an antenna having a maximum gain of 5 dBi for 2.4GHz and 7 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 isotopically 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 7 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 (7280B-141703) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type 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 (7280B-141703) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnent en association avec une autre antenne ou transmetteur.

Qty	MPN	Antenna Type	Antenna Connector	Gain	
				2.4 GHz	5 GHz
4	7004A0326000	Dipole	N-Type Plug	5	
4	7004A0326000	Dipole	N-Type Plug		7
1	N/A	Printed	MMCX	5.77	

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 49 cm 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 ISED 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

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 49 cm 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 ISED, ce qui est interdit.

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.



The product transmits within the frequency ranges and less than or equal to the power listed below:

2412-2462MHz less than 20dBm

5180-5240MHz less than 23dBm

5260-5320MHz less than 23dBm *

5500-5700MHz less than 30dBm *

Note: * Only with DFS bands certification.

This declaration is only valid for Fortinet products (including combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end customer directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

Български

Този продукт е в съответствие с Директива 2014/53/ЕС.

Česky

Tento produkt je v souladu se směrnici 2014/53/EU.

Dansk

Dette produkt er i overensstemmelse med direktiv 2014/53/EC.

Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EC.

Eesti
See toode vastab direktiivile 2014/53/EL.

English
This product is in compliance with Directive 2014/53/EU.

Español
Este producto cumple con la Directiva 2014/53/UE.

Ελληνική
Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français
Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski
Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano
Questo prodotto è conforme alla Direttiva 2014/53/EU.

Latviski
Questo prodotto è conforme alla Direttiva 2014/53/EU.

Lietuvių
Šis gaminyo atitinka direktyvą 2014/53/ES.

Malti
Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar
Ez a termék megfelel a 2014/53/EU irányelvnek.

Nederlands
Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk
Dette produktet er i samsvar med direktiv 2014/53/EU.

Polski
Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Português
Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski
Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky
Tento produkt je v súlade so smernicou 2014/53/EÚ.

Slovensko
Ta izdelek je v skladu z Direktivo 2014/53/EU.

Suomi
Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska
Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available
at the link below:
<https://site.fortinet.com/ProductRegulatory/EU>

The device is restricted to indoor use only when operating in the
5150 to 5350 MHz frequency range in the following countries:

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

The product transmits within the frequency ranges and less than or equal to the power listed below:

2412-2472MHz less than 20dBm

5180-5240MHz less than 23dBm

5260-5320MHz less than 23dBm *

5500-5700MHz less than 30dBm *

Note: * Only with DFS bands certification.

Fortinet Product License Agreement / EULA

and Warranty Terms

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable

form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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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

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 - 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.
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