



FORTINET®

QuickStart Guide

FortiAP 241K, 243K

FAP-241K, FAP-243K



The Essentials

Secure your Network

Register at <https://support.fortinet.com> for the latest threat protection updates

Default Logins

 <https://192.168.1.99>
Username: **admin**
Password: **leave blank**



<https://fortilan.forticloud.com>
Username: **user-defined**
Password: **user-defined**

Fortinet Documents Library

For getting started documentation admin guides, up-to-date hardware manuals and reference resources, visit <https://docs.fortinet.com/>

FortiLAN Cloud

Experience simplified cloud provisioning, zero touch deployment, configuration management and reporting at <https://fortilan.forticloud.com>





Package Contents

FortiAP 241K /243K

FAP-241K*, FAP-243K**



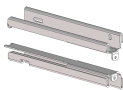
QuickStart Guide



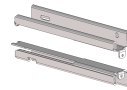
FortiAP Device*



FortiAP
Antenna Device**



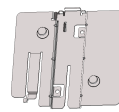
2× 9/16" T-Rail



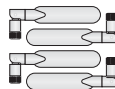
2× 15/16" T-Rail



2x Mounting Screws
with 2x Anchors



1x Mounting
Bracket



6x Antennas**

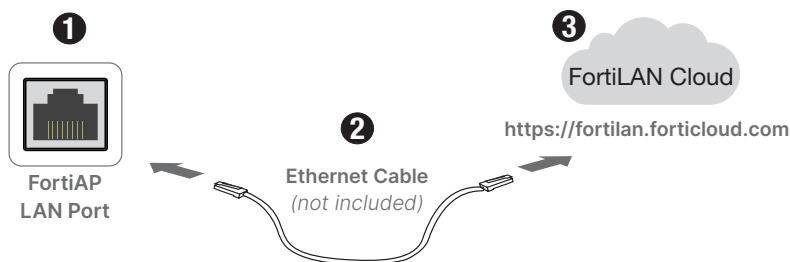




Setup Options

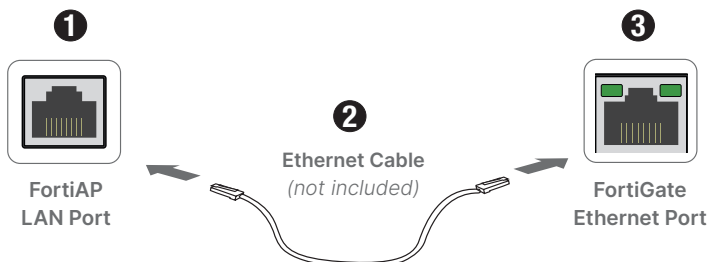
Power the FortiAP device with a 802.3af/at PoE injector, FortiGate PoE port or the optional (not included) 12V 3A power adapter.

FortiLAN Cloud



Note: Use your FortiCloud credentials to log in, then click Inventory, Import AP Key and enter the Cloud Key on the device sticker

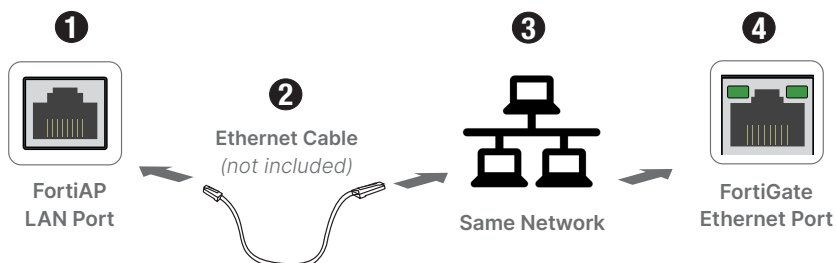
Direct Connection



Note: To self-configure, preauthorize the FortiAP on your FortiGate. Otherwise once connected, wait for the FortiAP to appear on the Managed FortiAP page in FortiOS.



Network Connection



Note: Connect to the FortiAP using 192.168.1.2 with username *admin* and set a password. Specify the FortiGate IP using:

```
cfg -a AC_IPADDR=0.0.0.0
```

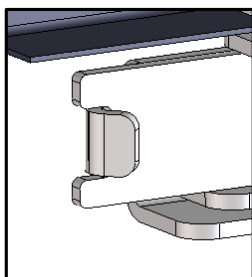
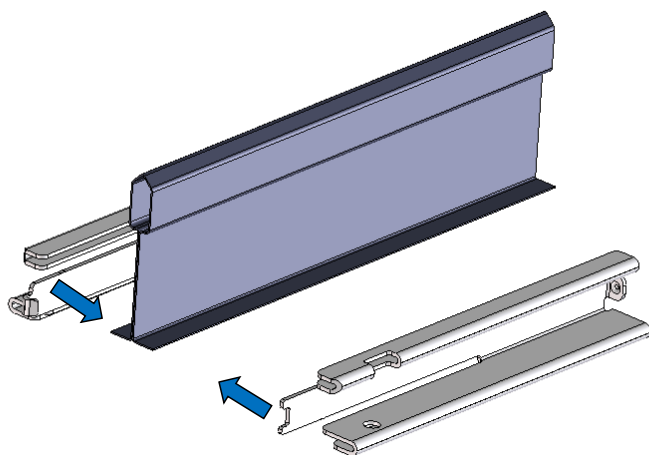
```
cfg -c
```

where 0.0.0.0 is the FortiGate IP.

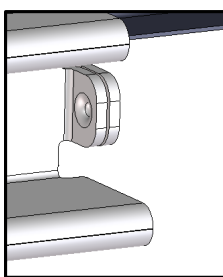


T-Bar Mounting

Rail Assembly

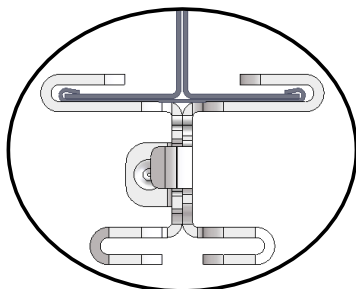


1. Hook

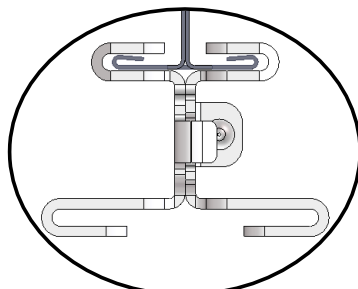


2. Clip

5/16" T-Bar

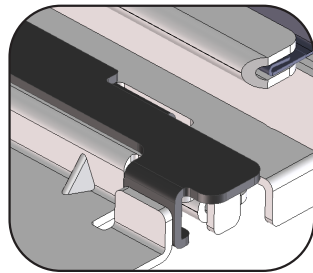
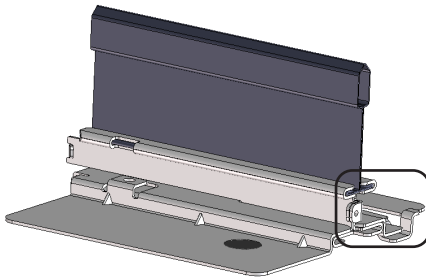
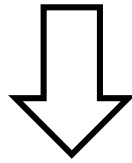
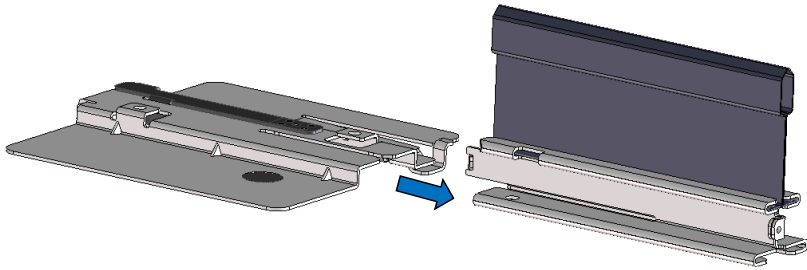


9/16" T-Bar





Bracket Installation

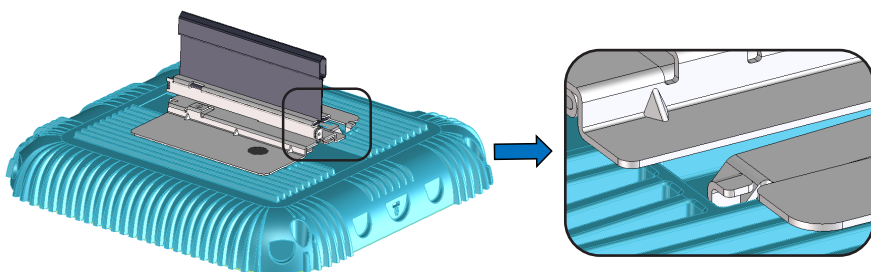
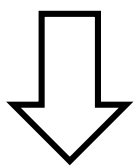
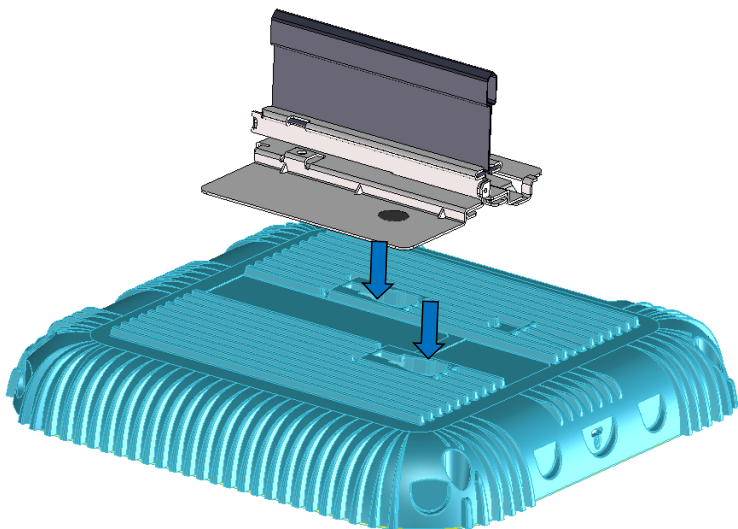


Security Latch





Device Attachment



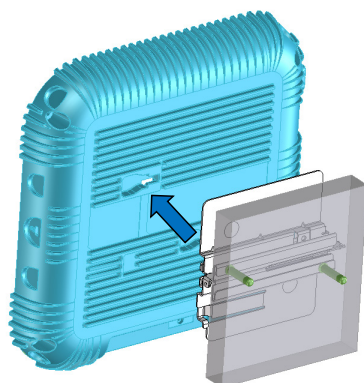
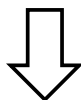
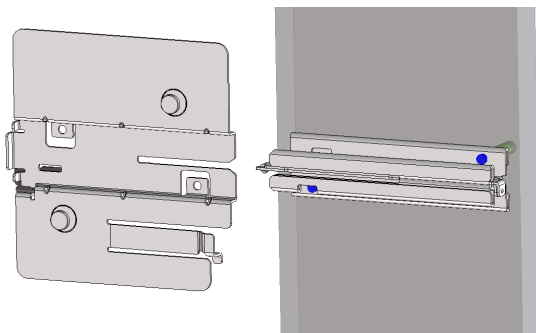
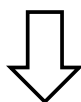
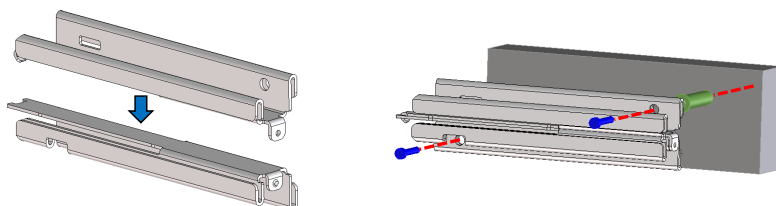
Security Latch





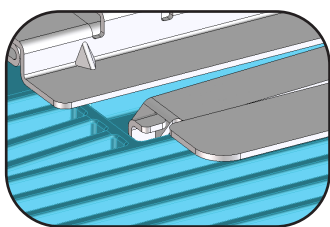
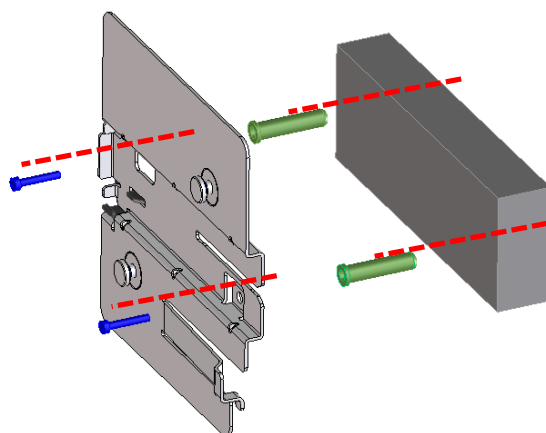
Wall Mounting

Slide Rail Mounting

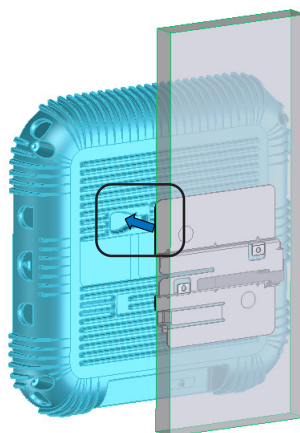




Bracket Mounting



Security Latch





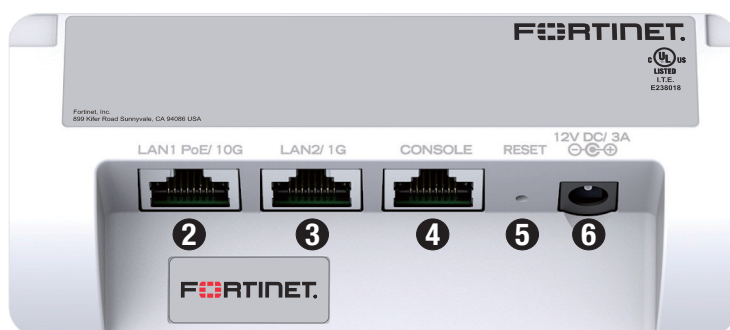
Antenna Installation *(FAP-243K only)*

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





Interfaces - FAP 241K / 243K





1 LED STATUS

Power



Off: Device is off



Green: Device is on and connected to a controller



Amber: Device is on and not connected to a controller

LAN



Off: LAN is not connected



Green: LAN is connected



Blinking Green: LAN data activity

WiFi



Off: WiFi not broadcasting



Green: SSID broadcasting



Blinking Green: Wireless data activity

2 LAN1 POE/ 10G (RJ-45) 10 Gbps 802.3bt PoE Ethernet interface

3 LAN2/ 1G (RJ-45) 1 Gbps Ethernet interface

4 CONSOLE (RJ-45) CLI management

5 RESET system reset

6 OPTIONAL POWER (12V DC) Optional 12V DC 3A adapter





Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 50°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

Caution: This equipment is to be used in a Network Environment 0 per IECTR 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 IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12Vdc, 4A or by 55 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12Vdc, 4A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 54 Vdc (PoE).

Regulatory Notices

Federal Communication Commission (FCC) – USA

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 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.

For FAP-241K

This equipment should be installed and operated with minimum distance 44 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For FAP-243K

This equipment should be installed and operated with minimum distance 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.

FCC regulations restrict the operation of this device to indoor use only.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet in the 5.925-6.425 GHz band.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

Innovation, Science and Economic Development (ISED) – 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.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1.This device may not cause interference.
- 2.This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
- 2.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.

Devices shall not be used for control of or communications with unmanned aircraft systems.

Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.

Operation shall be limited to indoor use only.

Leur utilisation doit être limitée à l'intérieur seulement.





Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited except for on large aircraft flying above 3,048 m (10,000 ft).

Leur utilisation à bord de plateformes de forage pétrolier, d'automobiles, de trains, de navires maritimes et d'aéronefs doit être interdite, sauf à bord d'un gros aéronef volant à plus de 3 048 m (10 000 pi) d'altitude.

For FAP-241K

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 26cm 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 26cm de distance entre la source de rayonnement et votre corps.

For FAP-243K

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

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.

Caution: The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

Attention: Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.; le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 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.

This device has been designed to operate with an antenna having a maximum gain of 5.19dBi for 2.4GHz and 5.51dBi 5GHz, 5.58dBi 6GHz. 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 5.19dBi pour 2,4 GHz et 5.51dBi pour 5GHz, 5.58dBi 6GHz. 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-240602** 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 **IC: 7280B-240602** 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 it's 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 fonctionnement en association avec une autre antenne ou transmetteur.

For FAP-241K

Antenna Number	Antenna Type	Connector	Support	Max Peak Gain
Antenna 1	PIFA	IPEX	2.4G+5G+UNI-4	2.4G: 5.11 5G: 5.22 UNI-4: 5.11
Antenna 2	PIFA	IPEX	2.4G+5G+UNI-4	2.4G: 5.19 5G: 5.32 UNI-4: 4.79
Antenna 3	PIFA	IPEX	2.4G+5G+UNI-4+6G	5G: 5.35 UNI-4: 5.40 6G: 5.49
Antenna 4	PIFA	IPEX	2.4G+5G+UNI-4+6G	2.4G: 4.97 5G: 5.43 UNI-4: 5.13 6G: 5.97
Antenna 5	Alford Loop	IPEX	6G	6G: 5.53
Antenna 6	Alford Loop	IPEX	6G	6G: 5.58
Antenna 7	PIFA	IPEX	BT+Zigbee	BT+Zigbee: 5

For FAP-243K

Antenna Number	Antenna Type	Connector	Support	Max Peak Gain
Antenna 1	Dipole	Reverse SMA	2.4G+5G	2.4G: 3.53 5G: 5.51 UNI-4: 5.06
Antenna 2	Dipole	Reverse SMA	2.4G+5G	2.4G: 3.40 5G: 5.34 UNI-4: 5.27
Antenna 3	Dipole	Reverse SMA	2.4G+5G+6G	5G: 5.21 UNI-4: 4.68 6G: 5.32
Antenna 4	Dipole	Reverse SMA	2.4G+5G+6G	2.4G: 3.27 5G: 5.05 UNI-4: 5.03 6G: 5.10
Antenna 5	Dipole	Reverse SMA	6G	6G: 5.20
Antenna 6	Dipole	Reverse SMA	6G	6G: 5.03
Antenna 7	PIFA	IPEX	BT+Zigbee	BT+Zigbee: 4.82

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.



This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.





Simplified EU Declaration of Conformity

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 směrnicí 2014/53/EU.

Dansk

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

Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

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/UE.

Latviski

Šis produkts atbilst Direktīvai 2014/53/EU.

Lietuvių

Šis gaminys 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 5150-5350 MHz and 5945MHz-6425MHz frequency ranges 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 (NI)						





Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 3.1(a), 3.1(b), 3.2 of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency Range (MHz)	Max. Transmit Power (dBm)
Bluetooth: 2402-2480MHz	10
Zigbee: 2405-2480MHz	10
WLAN 2.4GHz: 2412-2472MHz	20
WLAN 5GHz: 5180-5320MHz	23
WLAN 5GHz: 5500-5700MHz	30
WLAN 5GHz: 5725-5875MHz	14
WLAN 6GHz: 5955-6415MHz	23

UK Conformity Assessed (UKCA) – United Kingdom

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

Frequency Range (MHz)	Max. Transmit Power (dBm)
Bluetooth: 2402-2480MHz	10
Zigbee: 2405-2480MHz	10
WLAN 2.4GHz: 2412-2472MHz	20
WLAN 5GHz: 5180-5320MHz	23
WLAN 5GHz: 5500-5700MHz	30
WLAN 5GHz: 5725-5875MHz	14
WLAN 6GHz: 5955-6415MHz	23

This equipment should be installed and operated with minimum distance 22cm between the radiator & your body.

This product is in compliance with **Statutory Instrument 1206 Radio Equipment Regulations 2017**

The full Declaration of Conformity for this product is available in the link below:

<https://site.fortinet.com/ProductRegulatory/UK>

National Telecommunications Commission (NCC) – Taiwan

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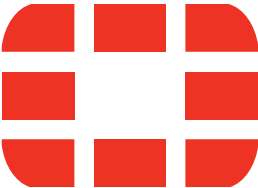
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