



FortiAP U231G

Quick Start Guide

About FAP-U231G

Note: Supported only from FortiWLC 8.6.7 and FortiGate with FOS version 7.2.2 and later.

The FortiAP-U231G access points are 802.11ax, Wi-Fi-6E, 2x2 MIMO, tri-radio, tri-band (2.4/5/6GHz) indoor access points. This high performance device complies with the IEEE 802.3at/ 802.11af PoE specifications and supports BLE and ZigBee.

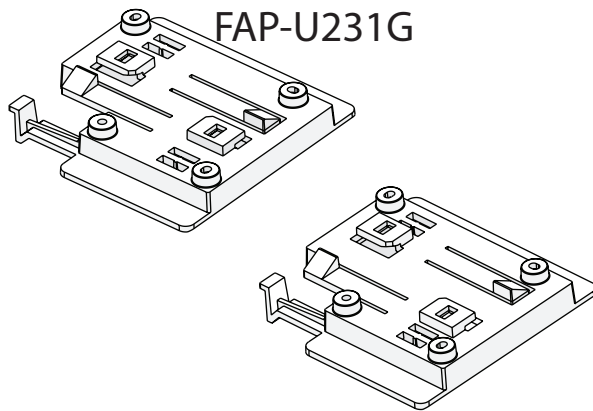
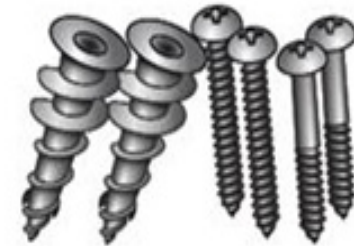
The FAP-U231G supports 9 internal antennas that include the following.

- Four 2.4/5.0GHz dual band Wi-Fi internal antennas
- Two 5.0GHz band Wi-Fi internal antennas
- Two 6.0GHz band antennas
- One BLE/ZigBee - 2.4GHz band internal antennas

The FAP-U231G is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and FortiCloud controllers.

This device can be wall mounted or pole mounted. Use the supplied hardware components to complete installing the unit.

FAP-U231G Box Includes



FAP-U231G

QuickStart Guide

Screws (16)

Wall/Ceiling Mount & Standard
Tile T-rail Bracket (2 Sizes)

Installing FAP-U231G

Follow this procedure to attach the unit to a wall or ceiling using the supplied mounting bracket.

1. Slide and attach the ceiling mount bracket to the bottom cover of the FortiAP unit.
If extra space is required to accommodate drop ceiling tiles, use the taller ceiling mount bracket.
2. Select an appropriate location, hold the device against the ceiling t-rail, and push the FortiAP unit onto the ceiling until it snaps into place.

The unit can be removed from the bracket by pressing on the bracket tab and sliding the device out.

Slide the Bracket



Bracket attached

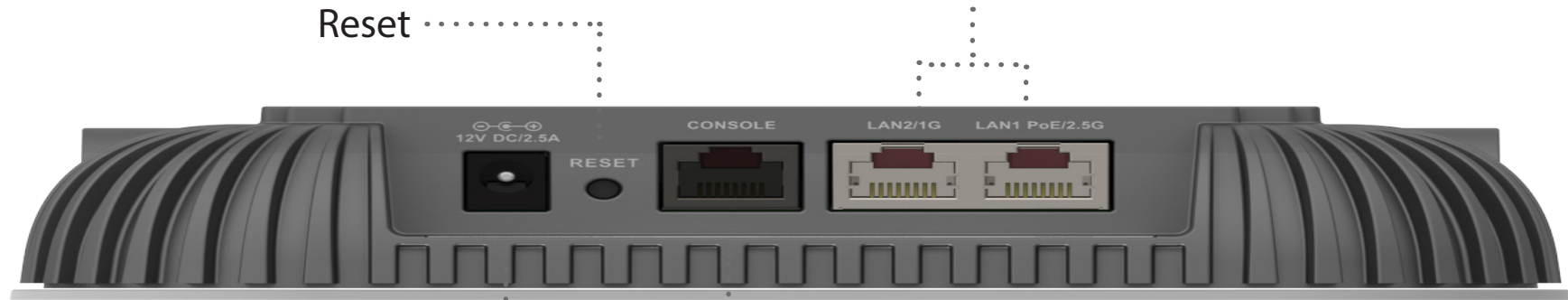


Notes:

- One standard ceiling mount bracket is included in sizes: 1.43cm (9/16in) and 2.38cm (15/16in).
- Mounting above the ceiling: FAP-U231G is UL2043 plenum rating certified. However, mounting it above the ceiling is restricted to the FortiAP either facing up or facing down; mounting FAP-U231G vertically is not allowed.
- To protect your device from unauthorized removal, use the Kensington™ Security Slot to attach a cable lock (not included).

FAP-U231G Ports

LAN1 2.5G PoE & LAN2 1G Ethernet Port (RJ-45)
Gigabit Ethernet port with Power over Ethernet (PoE)
Powered Device (PD) support



Reset

Power
12V, 2.5A

Console Port (RJ-45) Optional
management computer
connection
Provides access to the
Command-Line Interface (CLI)
Serial Baud Rate
115200

FAP-U231G LED Status



4 - WiFi (Radio 1 and 2)

-  No light: Radio 1 and 2 are powered Off
-  Green: Both Radio 1 and 2 are up.
-  Blinking Green: Data Tx/Rx on both Radio 1 and 2.

2 - LAN1 and LAN 2

-  No light: Link Down
-  Green: Link up
-  Blinking Green: Data Tx/Rx

1 - Power

-  Steady Green: Power On
-  Orange: Wireless controller found and the device is not managed.
-  No light: Power Off/Wireless controller not found

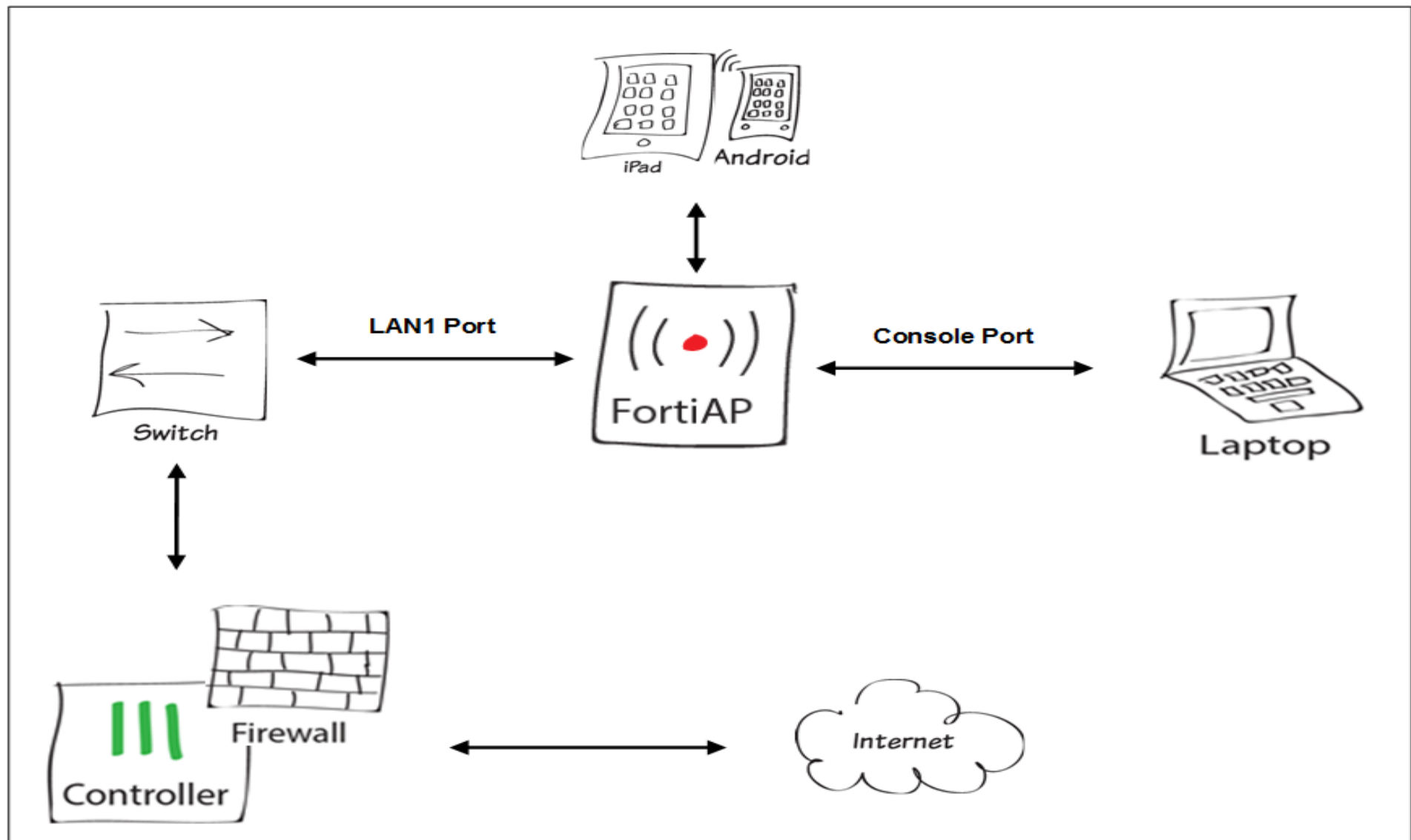
Connecting FortiAP

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

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

1. Connect one end of the Ethernet cable into the LAN1 port of the FortiAP unit.
2. Connect the other end of the Ethernet cable into your switch.
3. Connect one end of the console cable to the RJ-45 console port on the FortiAP. Connect the other end to a management computer for CLI access.
4. If you are not using PoE, connect the DC plug of the optional power adapter into the DC power jack on the FortiAP unit, and then insert the other end into an appropriate power outlet.

The power LED will light up.



Controller Discovery

The FortiAP boots up with the default FortiWLC AP image and tries to discover the FortiWLC, FortiGate, and FortiCloud controllers simultaneously.

The FortiAP connects to the controller that is first discovered.

- If FortiWLC controller is discovered, the unit continues booting up with the default FortiWLC image.
- If the FortiGate or the FortiCloud controller is discovered, the unit reboots with the FortiAP image.

For the FortiAP to discover the FortiCloud controller, you need to add the unique FortiCloud key labelled on the device to the FortiCloud. See section *FortiCloud Deployment*.

For the FortiAP to complete the FortiGate discovery, you need to authorize the FortiAP on the FortiGate. See section *FortiGate Deployment*.

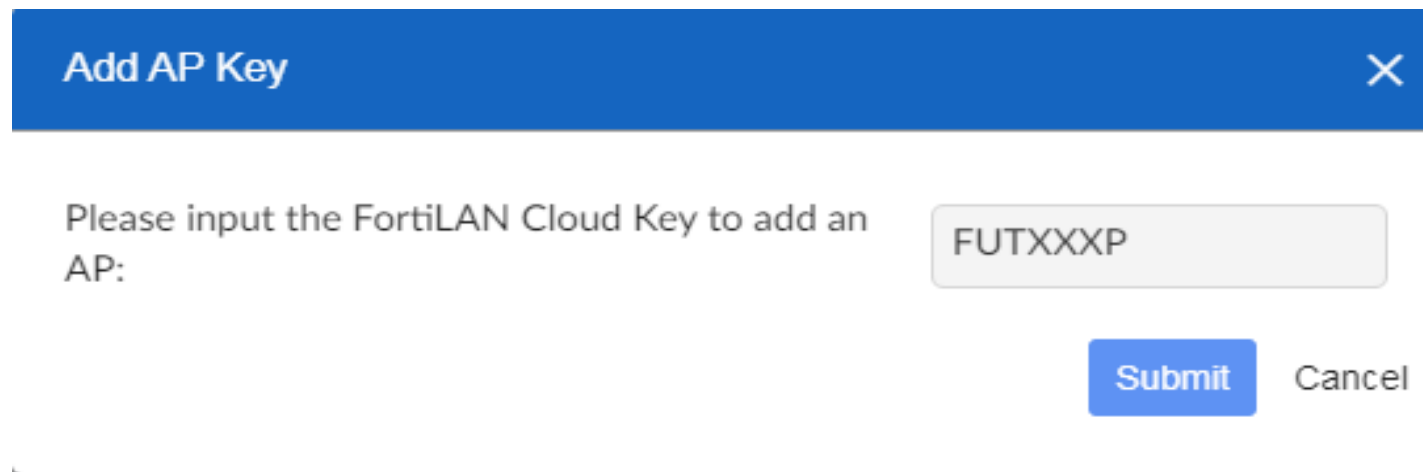
To bring the FortiAP back to factory default setting, insert a pin into the reset point on the power adapter and hold on for 10 seconds. Release the pin.

On the FortiAP image, run the *reload default factory* command to reset the FortiAP to factory default.

FortiLAN Cloud Deployment

Follow these steps to complete the FortiLAN Cloud discovery.

1. Login into the FortiLAN Cloud GUI.
2. Click Inventory > Import AP Key and enter the unique FortiLAN Cloud key located on your FortiAP device, then click Submit.



The screenshot shows a blue dialog box titled "Add AP Key" with a close button (X) in the top right corner. Below the title bar, the text "Please input the FortiLAN Cloud Key to add an AP:" is displayed. To the right of this text is a text input field containing the value "FUTXXXP". Below the input field are two buttons: a blue "Submit" button and a grey "Cancel" button.

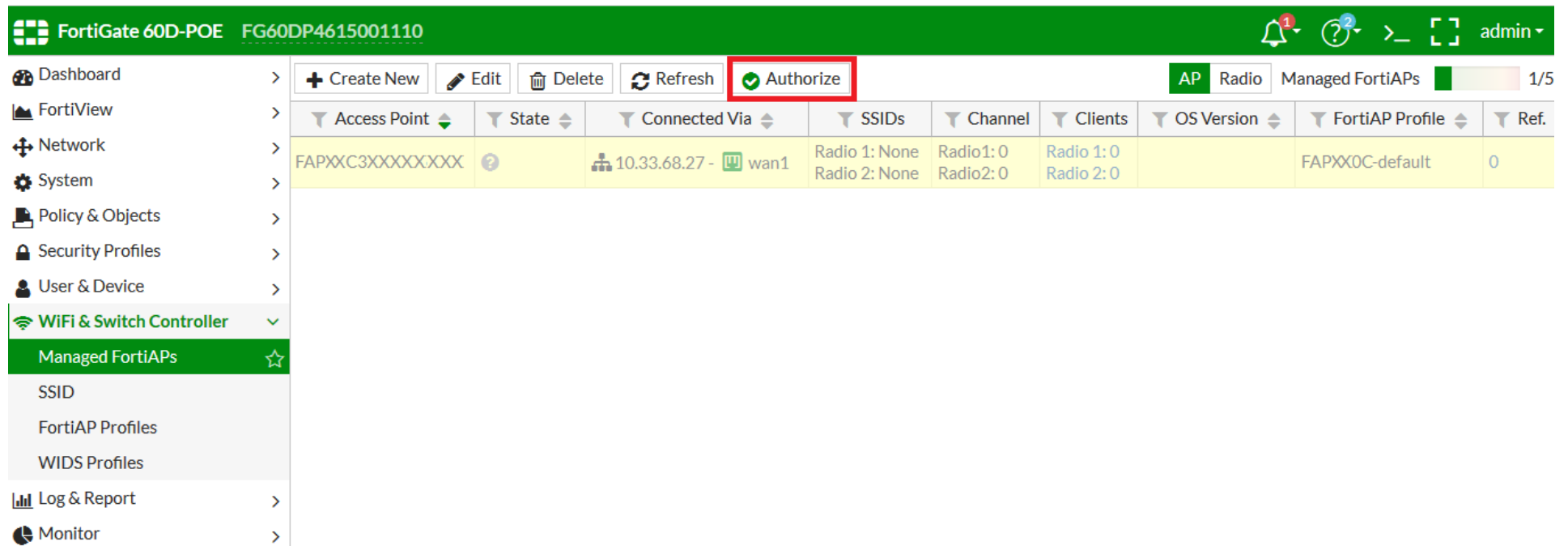
3. Deploy the FortiAP to an existing network, or create a new network, then click Submit.

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.

Configure the discovered FortiAP.

FortiGate Deployment

To complete the FortiGate controller discovery process, you need to authorize the FortiAP on the FortiGate.



FortiGate 60D-POE FG60DP4615001110

admin

Dashboard FortiView Network System Policy & Objects Security Profiles User & Device WiFi & Switch Controller Managed FortiAPs SSID FortiAP Profiles WIDS Profiles Log & Report Monitor

Create New Edit Delete Refresh **Authorize** AP Radio Managed FortiAPs 1/5

Access Point	State	Connected Via	SSIDs	Channel	Clients	OS Version	FortiAP Profile	Ref.
FAPXXC3XXXXXXXXXX	?	10.33.68.27 - wan1	Radio 1: None Radio 2: None	Radio1: 0 Radio2: 0	Radio 1: 0 Radio 2: 0		FAPXX0C-default	0

Zero Configuration

The FortiAP unit is designed to require no configuration in most networks. Zero configuration mode works if the unit is on the same layer-2 network and subnet as the FortiWLC, or if the unit 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.

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

The discovery mode for FortiCloud controller is:

- FortiCloud Protocol

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

Manual IP Configuration and 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. Move the FortiAP to the intended deployment location and connect the Ethernet cable.

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, 2.5A or by 54Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12Vdc, 2.5A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 54 Vdc (PoE).

Suitable for use in environmental air space in accordance with Section 300-22(C) of the National Electrical Code, and Sections 12-128, 12-010(3) and 12-100 of the Canadian Electrical Code, Part 1, CSA C22.1.

Convient pour une utilisation dans l'espace aérien conformément à l'article 300-22 (C) du Code National de l'Électricité, et des articles 12-128, 12-010 (3) et 12-100 du Code de l'électricité canadien, Partie 1, CSA C22.1.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

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 23cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operation of this device is restricted to indoor use only. For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

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

For operation within 5.925-7.125GHz frequency range:

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.

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.

This equipment complies with ISSED 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 ISSED 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.

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.

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.

Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;

The worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.
Les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, et énoncée à la section 6.2.2 3), doivent être clairement indiqués.

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.

Under ISSED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISSED. 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.

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

- a. Operation shall be limited to indoor use only; and
- b. Operation on oil platforms, cars, trains, boats and aircraft shall be prohibited except for on large aircraft flying above 10,000ft.
- a. Utilisation limitée à l'intérieur seulement;
- b. Utilisation interdite à bord de plateformes de forage pétrolier, de voitures, de trains, de bateaux et d'aéronefs, sauf à bord d'un gros aéronef volant à plus de 10000pieds d'altitude.

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:

2402-2480MHz less than 20dBm

2405-2480MHz less than 20dBm

2412-2472MHz less than 20dBm

5180-5240MHz less than 23dBm

5260-5320MHz less than 23dBm*

5500-5700MHz less than 30dBm*

5745-5825MHz less than 14dBm

5955-6415MHz less than 23dBm

Note: * Only with DFS bands certification.

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 směrnici 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/EU.

Latviski
Šis produkts atbilst Direktīvai 2014/53/ES.

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 in 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 (NI)

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

In accordance with Article 10.8(a) and 10.8(b) 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	20
Zigbee: 2405-2480MHz	20
WLAN 2.4GHz: 2412-2472MHz	20
WLAN 5GHz: 5180-5320MHz	23
WLAN 5GHz: 5500-5700MHz	30
WLAN 5GHz: 5745-5825MHz	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:

2402-2480MHz less than 20dBm

2405-2480MHz less than 20dBm

2412-2472MHz less than 20dBm

5180-5240MHz less than 23dBm

5260-5320MHz less than 23dBm*

5500-5700MHz less than 30dBm*

5745-5825MHz less than 14dBm

5955-6415MHz less than 23dBm

Note: * Only with DFS bands certification.

This equipment should be installed and operated with minimum distance 20cm 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>

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This is a license, not a sales agreement, between you and Fortinet. The term “Software”, as used throughout this Agreement, includes all Fortinet and third party firmware and software provided to you with, or incorporated into, Fortinet appliances and any stand-alone

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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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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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