



FORTINET®



FortiAP 321E

QuickStart Guide





October 16, 2019

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Fax: 1 408 235 7737

Email: register@fortinet.com

Register your Fortinet product to receive:

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- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La registrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalità
- Protezione dalle ultime minacce

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护





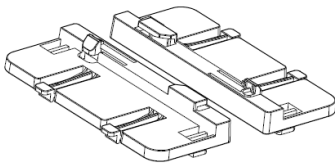
Box Includes



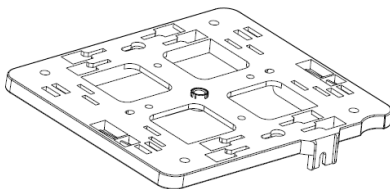
FortiAP device



QuickStart Guide



T-bar mount plate x1



Wall mount plate x1



Ceiling/Wall mount screw x4



Ceiling/Wall mount anchor x4



Mount plate lock torx screw x1



Mount plate lock philips x1



Mount plate washer x1



Before You Begin

Visit the FortiAP Document Library for configuration guides and more:

<http://docs.fortinet.com/product/fortiap>

Write down details typically provided by your network administrator or ISP.

Static IP address

IP address

Subnet Mask

Default Gateway

Primary/Secondary DNS

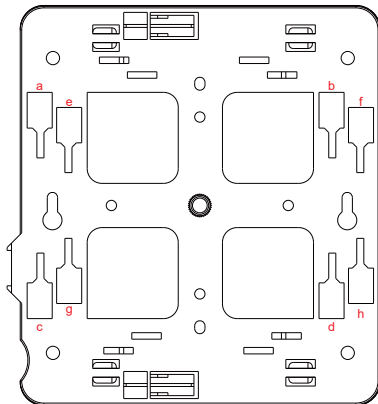
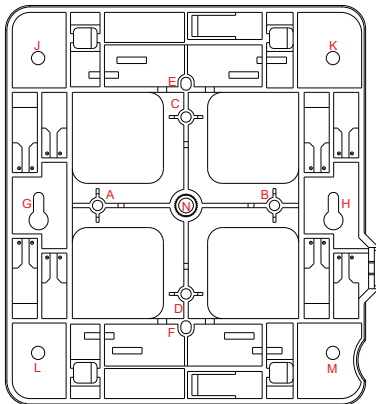
DHCP

It is normal to not require a hostname, but your ISP might require it.

Hostname



Screw Mount Base



Screw Mount Base mounting hole position:

US, Japan, Korea, Australia junction box: **E, F**

European Union junction box: **A, B, C, D**

UK, China junction box: **A, B**

100mm wall hanging/mount: **G, H**

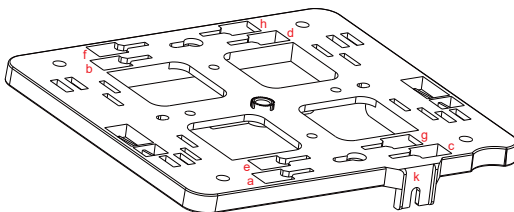
VESA 100x100 mount: **J, K, L, M**

Center 5mm screw mount: **N**

Screw Mount Base T-bar clip position:

a, b and c, d: Guide slots for 15/16" T-bar clip mount

e, f and g, h: Guide slots for 9/16" T-bar clip mount



k: Security screw mount tab of screw mount base to FAP-321E housing

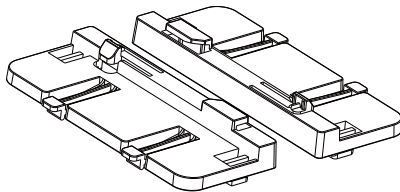
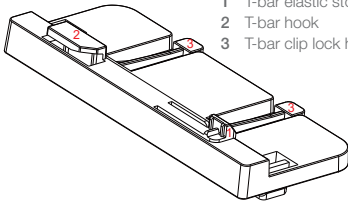




Ceiling T-bar Clip

T-bar Clip (half):

- 1 T-bar elastic stopper
- 2 T-bar hook
- 3 T-bar clip lock handle



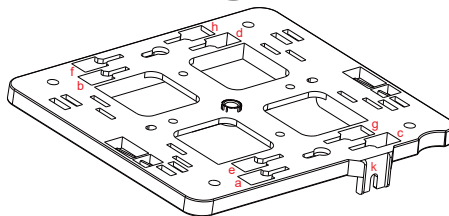
T-bar Clip Assembling

15/16" (24mm) T-bar application:

T-bar clip halves at guided slot **a**, **b**, and **c**, **d**.

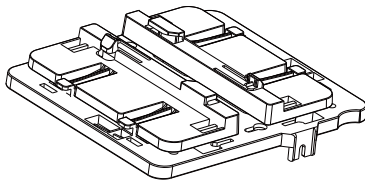
9/16" (14mm) T-bar application:

T-bar clip halves at guided slot **e**, **f**, and **g**, **h**.

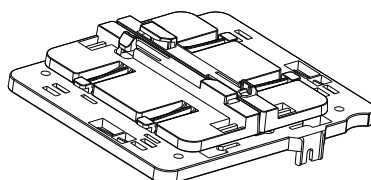


T-bar Clip Disassembling

1. Lift up the two lock handles of the T-bar clip.
2. Pull the T-bar clip back.



Assembled 15/16" T-bar clip

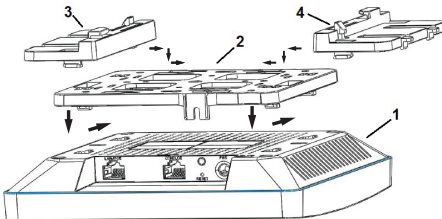


Assembled 9/16" T-bar clip





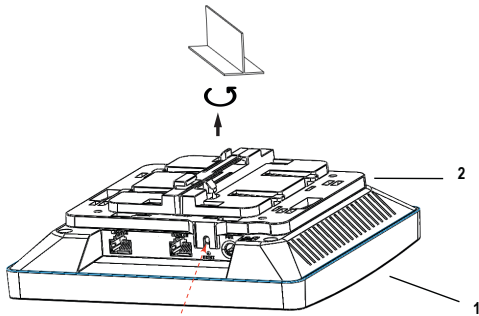
1 Installation



- 1 FAP-321E main body
- 2 FAP-321E screw mount base
- 3 FAP-321E ceiling T-bar clip part 1
- 4 FAP-321E ceiling T-bar clip part 2
(identical to part 1)

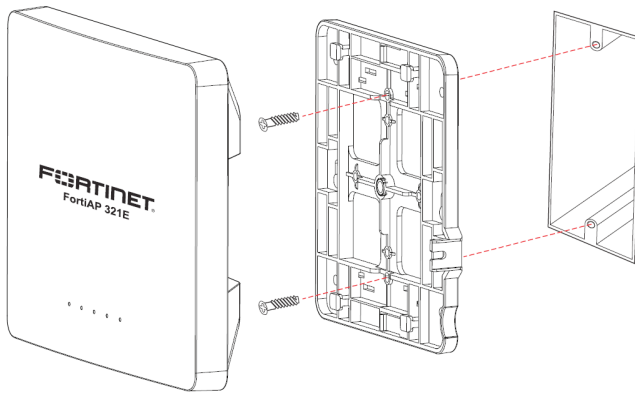
Installation instructions for ceiling T-bar

1. Put the [screw mount base 2](#) into the guiding slots on the bottom of [FAP-321E main body 1](#) and push forward to have it locked.
2. It is suggested to use the provided screw to tighten the [screw mount base](#) to the [FAP-321E main body](#). The torx screw is recommended to increase the security.
3. According to 15/16" or 9/16" ceiling T-bar application, put the [2 pieces of T-bar clip part](#) into the 15/16" or 9/16" [guiding slots](#). Push the [T-bar clip](#) forward until the [two lock handles](#) are locked on the [screw mount base](#).
4. Push the [assembled T-bar clip](#) against the [ceiling T-bar](#) to have the [elastic T-bar stopper](#) on the [T-bar clip](#) pressed. Turn the [FAP-321E body](#) to have the [T-bar clip](#) locked to the [ceiling T-bar](#).



Security Torx screw is optional
to tighten 2 with 1 together





Install FAP-321E to wall junction box

1. Put the [screw](#) into correct mount holes on the [screw mount base](#). Refer to “Screw mount base” page for more information.
2. Tighten the [screw](#) to install the [screw mount base](#) to the [junction box](#).
3. Put the [FAP-321E main body](#) to the [screw mount base](#).
4. Slide the [FAP-321E main body](#) to have it locked onto the [screw mount base](#).
5. Use the [security screw](#) (Torx or Philips) to tighten the [screw mount base](#) to the [FAP-321E main body](#).

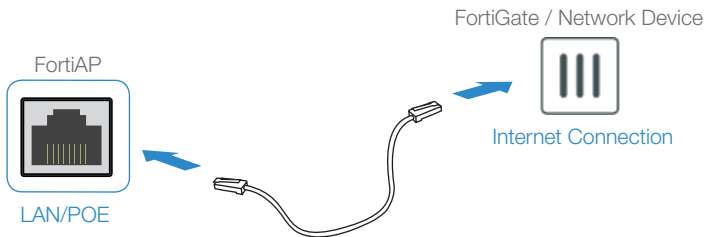
Self-defined wall mount of FAP-321E

1. Select proper [mount holes](#) on the [screw mount base](#) and mark the position on the wall.
2. Select proper [drill](#) to make holes on the wall so that the [screw anchor](#) can be tightly pushed into the hole.
3. Put the [mount screw](#) to the holes of the [screw mount base](#) and tighten it to the wall.
4. Slide the [FAP-321E main body](#) to have it locked onto the [screw mount base](#).
5. Use the [security screw](#) (Torx or Philips) to tighten the [screw mount base](#) to the [FAP-321E main body](#).





2 Basic Connection



Connect the FortiAP device to a [FortiGate controller](#) or an [Internet connection](#).

Ensure that the [Power over Ethernet \(PoE\)](#) cable is connected to an applicable port on your [FortiGate](#) device or [PoE injector](#).

Caution: Adequate [grounding](#) must be provided to the FortiAP unit and the PoE injector, in compliance with your [local electrical code](#) or [regulations](#).

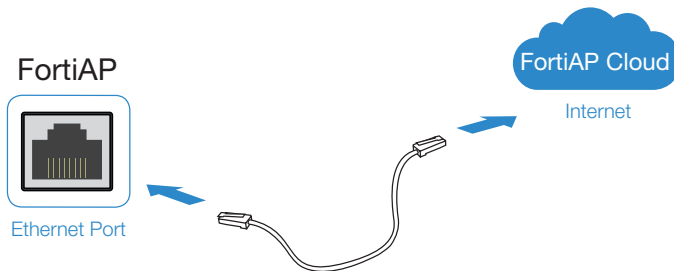
Warning: This device complies with [IEEE 802.3af/at](#) PoE specification. Do not use any [PoE injectors](#) that are not [IEEE 802.3at compliant](#) as they may damage your device.





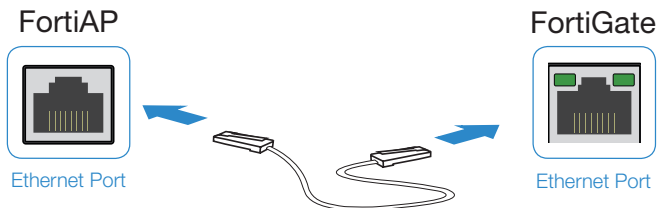
3 FortiAP Setup

A Cloud provisioning with FortiAP Cloud



OR

B FortiGate secured on local network





FortiAP Cloud

1. Visit login.fortiapcloud.com and [create an account](#) or [access an existing one](#).
2. Click on [Inventory](#), then click on [Import AP Key](#).

Add AP

×

Please input the FortiCloud Key to add an AP:

Submit

3. Input the [AP Key](#) to add the AP to your inventory.
4. When you create a New AP network, you will be asked to choose what APs are to be part of it from your inventory. Alternatively, you can add the AP to an existing AP network at any time also.



B Deployment through a FortiGate

Ensure that you are running the Fortinet recommended version of software.
Please check support.fortinet.com for more information.

If the FortiGate is on the same network as the FortiAP:

1. Preauthorize your FortiAP device using your FortiGate.
2. Refer to the “Access Point Configuration” section of the FortiWiFi and FortiAP Configuration Guide found at <https://docs.fortinet.com/product/fortiap>
3. Plug the FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can use the FortiGate to authorize the FortiAP device after you have connected the FortiAP to the network.
2. Within two minutes of connecting the FortiAP to your FortiGate, the device appears on the Managed FortiAP page in the Web-based Manager: authorize and assign a profile to the device.



If FortiGate is not on the same network as the FortiAP:

1. Log in to the FortiAP directly (IP address: [192.168.1.2](#)) with username [admin](#) and [no password](#), and specify the [IP address](#) of the controlling FortiGate.
2. Connect to the FortiAP via the [CLI](#) using the instructions in the “[FortiAP CLI](#)” section of the [FortiWiFi and FortiAP Configuration Guide](#). For more information, visit <https://docs.fortinet.com/product/fortiap/>
3. Specify the [IP address](#) of the controlling FortiGate:

```
cfg -a AC_IPADDR_1=0.0.0.0
```

```
cfg -c
```

where [0.0.0.0](#) is the address of the FortiGate.
4. The FortiAP device connects to the FortiGate, and then you can [authorize](#) the FortiAP.



FortiAP 321E – Top of Device



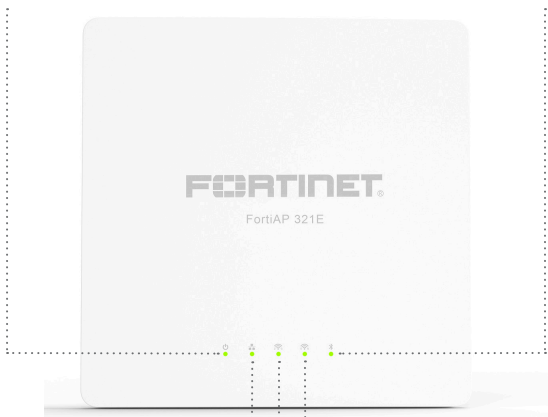
System Status

Green: Power on and ready for operation
Green Blinking: Device booting or upgrading
Off: No power



Bluetooth Status

Green: Bluetooth enabled/on
Green Blinking: Transmitting or receiving data
Off: Bluetooth disabled/off



Ethernet Port Status

Green: Ethernet link is active
Green Blinking: Transmitting or receiving data
Off: Ethernet link disabled/off



5G WiFi Status

Green: 5G WiFi radio enabled/on
Green Blinking: Transmitting or receiving data
Off: 5G WiFi radio disabled/off



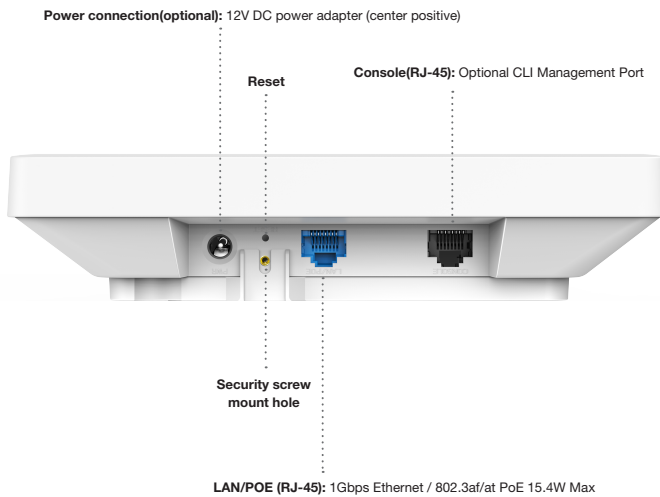
2.4G WiFi Status

Green: 2.4G WiFi radio enabled/on
Green Blinking: Transmitting or receiving data
Off: 2.4G WiFi radio disabled/off





FortiAP 321E – Device Interfaces





Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C–40°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 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 by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 1.5A or by 51 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 1.5A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 51 Vdc (PoE).

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 25cm 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 5.15–5.25 GHz 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.

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 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 ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and 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 20cm 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.

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.

This device has been designed to operate with an antenna having a maximum gain of 3 dBi for 2.4 GHz and 4 dBi for 5 GHz. 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 3 dBi pour 2,4 GHz et 4 dBi pour 5 GHz. 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-37146T064) 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-37146T064) 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 antenna(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.

Qty	Antenna Type	Connector	Gain (dBi)	
			2.4 GHz	5 GHz
Internal Antenna Model				
2	PIFA	IPEX	3	–
2	PIFA	IPEX	–	4
Bluetooth				
1	Chip	IPEX	4	–

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:
2412–2472 MHz less than 20 dBm
5180–5240 MHz less than 23 dBm
5260–5320 MHz less than 23 dBm *
5500–5700 MHz less than 30 dBm *

Note: * Only with DFS bands certification.

This equipment should be installed and operated with minimum distance 20cm between the radiator and 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/EU.

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 ir atbilstošs Direktīvas 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>





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Version 2.1, February 1999

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