

# QuickStart Guide

FortiGate 80F Series



May 11, 2020

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# **Product Registration**

Thank you for purchasing a FortiGate. To access:

- Cloud Management
   FortiGuard Updates
   Firmware Upgrades
  - Technical Support
     Warranty Coverage

Please register your FortiGate Device:

Vous devez enregistrer le produir:

Debe registrar el producto:

登録のお願い:

请马上注册:

http://support.fortinet.com

# Box Includes - FG 80F Series



FortiGate 80F/81F/-Bypass



QuickStart Guide



Power Cable



12V DC Power Adapter



Ethernet Cable

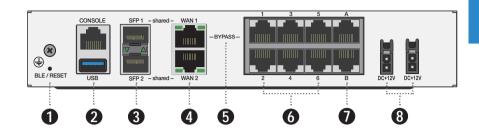


Wall Mount Kit (Optional)



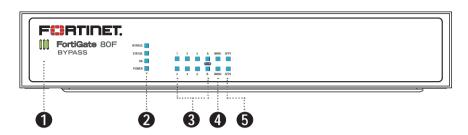
Wall Mount Hardware (Optional)

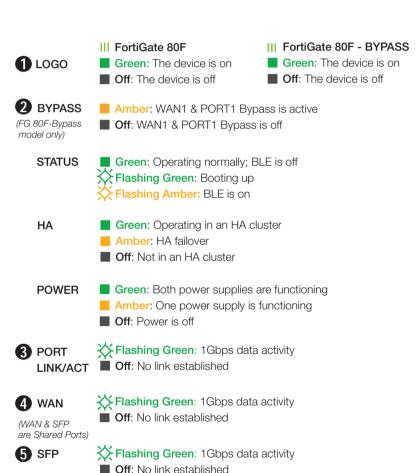
## Back Panel - FG 80F Series



- 1 RESET (Button) Restores factory default and BLE settings
- Console (RJ-45) CLI management computer interface USB (USB A) USB 3.0 server port
- 3 SFP Shared Ports 1 & 2 (SFP) 1 Gbps SFP interface
- 4 WAN Shared Ports 1 & 2 (RJ45) 1 Gbps Ethernet interface
- **BYPASS** (RJ45) 1 Gbps Ethernet interface (FG 80F-Bypass model only)
- 6 Ports 1 to 6 (RJ-45) 1 Gbps Ethernet interface
- **7** FortiLink Ports A & B (RJ-45) 1 Gbps Ethernet interface
- 8 Power (x2) 12V DC 3A, 100-240V AC 50/60Hz adapters

## Front Panel - FG 80F Series

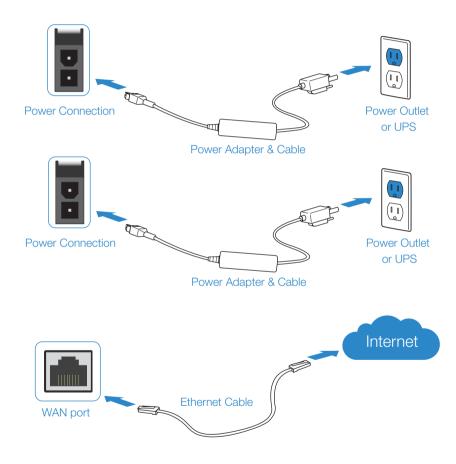




## Installation

Your FortiGate includes a wall mount kit and connection cables. Desktop installation, rack mount and slide-rail kits are also available.

## **Basic Connections**



- 1. Plug in your device to power outlets using the provided power adapters & cables
- 2. Connect a WAN port to the internet using the supplied Ethernet cable

**Note:** We recommend connecting your FortiGate to an uninterruptible power supply (UPS) in case of a power outage

## **Wall Mount Option**

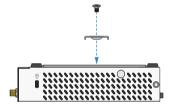
1. Mark the location of the holes using the mounting bracket



- 2. Drill holes for the anchors
- 3. Insert the anchors and then screw in the screws with 2mm exposed



4. Fasten the mounting bracket



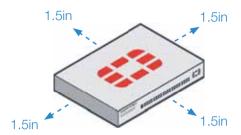
5. Position the device and slide into place



6. Plug the provided power cable into the rear of the unit and then into a grounded electrical outlet or separate power source

## **Desktop Option**

- 1. Place the unit on a flat, clean and stable surface
- 2. Ensure there is at least 1.5in of clearance for adequate airflow



3. Plug the provided power cable into the rear of the unit and then into a grounded electrical outlet or separate power source

## Rack/Rail Mount Option

Fortinet carries a variety of standard and custom rack and rail mount accessories, including a rack mount tray kit, SP-RACKTRAY-02.



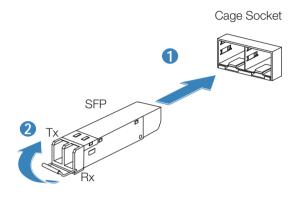
SP-RACKTRAY-02

**Ordering:** Contact Fortinet to order brackets, rail slide kits, rack mount kits and other accessories, such as a console cable

## **SFP Ports**

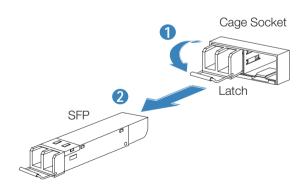
### To install the SFP transceivers

- 1. Slide the SFP into the cage socket until it clicks into place
- 2. Lift the latch to lock the SFP



### To remove the SFP transceivers

- 1. Lower the latch to unlock the SFP
- 2. Carefully pull the SFP out of the cage socket



For additional info on SFP's, visit:

support.fortinet.com

## **Setup Options**

Set up your device locally or on the cloud. Choose one of the following options to complete your setup, then configure your device.



Local Setup



An easy-to-use GUI, compatible with most web browsers. To minimize scrolling, the screen resolution should be at least 1280 x 1024 pixels.



## **B** FortiGate Cloud

FortiGate Cloud is a cloud-based infrastructure management solution and log retention service. It provides centralized reporting, traffic analysis, configuration management, and log retention without the need for additional hardware and software.



Smartphone Setup

## **C** FortiExplorer

FortiExplorer for iOS is a user-friendly iOS application that helps you configure, manage, and monitor appliances. FortiExplorer rapidly provisions, deploys, and monitors Security Fabric components such as FortiGate. FortiWiFi. and FortiAP devices.



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# D Command Line Interface (CLI)

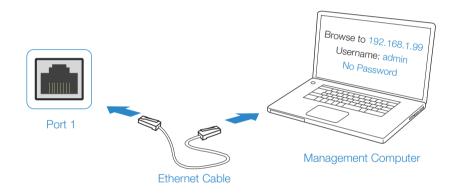
An alternate configuration tool from the web-based manager that uses a terminal emulation application to type commands or upload batches of commands from a text file or configuration script. Requires a console cable (available for purchase).



- 1. Connect port 1 to the Management Computer using the supplied Ethernet cable
- 2. Enable DHCP or set the Management Computer's IP and subnet to:

**Static IP Address:** 192.168.1.1 **Subnet Mask:** 255.255.255.0

3. Visit 192.168.1.99 in a web browser



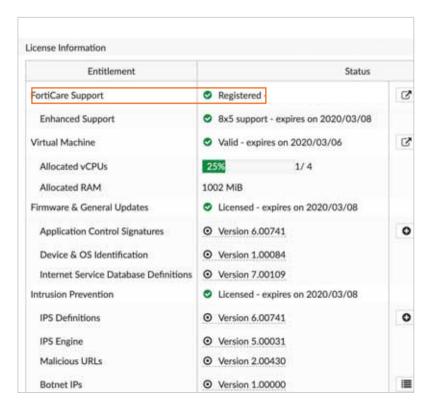
4. Log in with username admin and no password



5. When prompted to register, enter your Fortinet credentials



The FortiCare Support Status in the FortiOS License Information widget will change to Registered

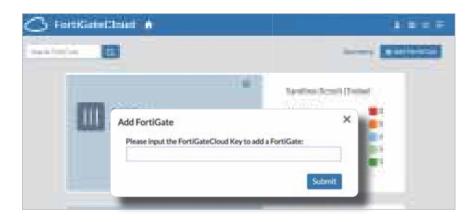


## **B**FortiGate Cloud

1. Log in to forticloud.com using your Fortinet credentials



2. Click Add FortiGate and enter the Cloud Key located on the sticker on your device

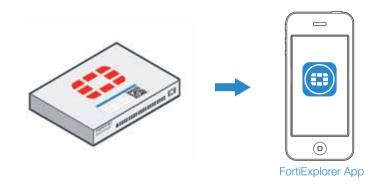


3. You can now manage your device from the cloud

Note: To get a Fortinet account, register at support.fortinet.com

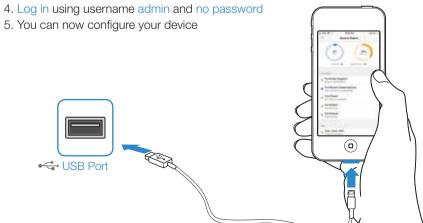
# 

- 1 Cloud Key Setup
- 1. Download and launch the FortiExplorer iOS App
- 2. Tap Devices, then tap Add
- 3. Select FortiGate Cloud and log in using your Fortinet credentials
- 4. Scan the QR code on the Cloud Key
- 5. Log in to your device using username admin and no password
- 6. You can now configure your device

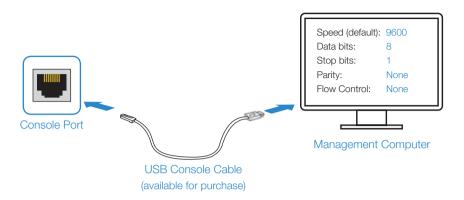




- 1. Download and launch the FortiExplorer iOS App
- 2. Connect your Apple Lightning to USB cable to the FortiGate/FortiWiFi USB port
- 3. Tap your device when it appears in FortiExplorer







- 1. Connect the Console Port with a console cable to the Management Computer
- 2. Start a terminal program on the Management Computer and select an available COM Port using the following default settings:

Baud rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None

- 3. Log in using username admin and no password
- 4. You can now configure your device

```
Configure object.
Get dynamic and system information.
             Show configuration.
             Diagnose facility.
             Execute static commands.
             Exit the CLI.
FortiGate # config 7
alertemail
                          Alert email configuration.
                          AntiVirus configuration.
Application control configuration.
antivirus
application
                          Client reputation tracking configuration
client-reputation
                          DLP configuration.
  dpoint-control
                          Endpoint control configuration.
Firewall configuration.
                          FTP proxy configuration.
                          GUI configuration.
                          ICAP client configuration.
                          IM & P2P policy configuration.
                          IPS configuration.
```

**Note:** Type ? for a list of commands. Type a command with ?, such as config ? to list the options. For advanced options, visit support.fortinet.com

## Resources

Refer to the following resources to continue your FortiGate setup.

### FortiGate Documentation Library

Up-to-date hardware and software guides https://docs.fortinet.com/fortigate

## Fortinet Customer Service & Support

Access knowledge bases, resource libraries and contact support https://support.fortinet.com/

### Fortinet Video Tutorials

FortiOS Tips, Web GUI tutorials, SD-WAN tricks and more http://video.fortinet.com

### FortiGuard Labs

Discover FortiGuard's Zero-Day Research, Weekly Threat Briefs and Threat Lookups https://fortiguard.com/

### FortiGate Cloud

Analyze centralized reporting, traffic analysis, configuration management and logs https://forticloud.com

# Register for Free Licenses & Services



Simplify and leverage provisioning, management, and analytics with FortiGate Cloud's centralized administration. Extend online logs and analysis to 1 full year with a subscription.

FortiGate Cloud 7 Days of Data Retention

Make remote access simple.

Use yourcompany.fortiddns.com instead of a hard-to-remember IP address.

**Fortinet DDNS Service** 



# Services with FortiCare Subscriptions

Global 24/7 support for your Fortinet hardware & software

Get the latest product security updates and features. Stay with us and see the product evolve.

## Firmware Updates

Use cellphone technology as backup Internet connection. We are always adding support for new third party 3G/4G+devices.

## **USB Modem Database Updates**

Set up policies and track activities based on geography. Your FortiGate will intelligently identify where an IP is originated or destined.

## **Geo-IP Database Updates**

Create policies to allow, deny, or restrict access to applications or entire categories of applications. You can use application control to keep malicious, risky, and unwanted applications out of your network.

## **Application Control Database Updates**



**Device Signatures Database Updates** 

Internet service database objects consist of IP addresses, port numbers, and protocols used by Internet services. Simplify the management and control of cloud-based applications.

**Internet Service Database Updates** 

# Fortinet Bundled Services with FortiCare

Fortinet Bundled Services				
FortiCare				
FortiGuard App Control Service				
FortiGuard IPS Service				
FortiGuard Advanced Malware Protection (AMP)				
FortiGuard Web Filtering Service				
FortiGuard Anti-Spam Service				
FortiGuard Security Rating Service				
FortiGuard Industrial Service				
FortiCASB SaaS-only Service				
FortiConverter Service				
SD-WAN Cloud Assisted Monitoring				
SD-WAN Overlay Controller VPN Service				
FortiAnalyzer Cloud				
FortiManager Cloud				

100				
360 Protection	Enterprise Protection	UТM	Threat Protection	
ASE	24x7	24x7	24x7	
<b>✓</b>	$\checkmark$	<b>√</b>	$\checkmark$	
<b>✓</b>	<b>✓</b>	$\checkmark$	$\checkmark$	
<b>✓</b>	<b>✓</b>	$\checkmark$	<b>✓</b>	
<b>✓</b>	<b>✓</b>	<b>√</b>		
<b>✓</b>	<b>✓</b>	<b>✓</b>		
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<b>✓</b>				
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# The Fortinet Security Fabric

## **Broad**

Visibility of the entire digital attack surface

Fabric APIs

# **Integrated**

Al-driven breach prevention across all devices, networks, and applications

Endpoint/Device Protection



## **Automated**

Operations, orchestration and response

Secure Access



# FortiGate Security Fabric Integration

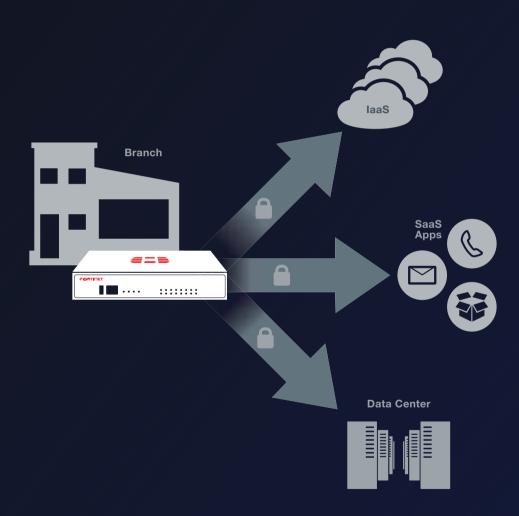
# Other Fabric Solutions





# Solution Spotlight: Secure SD-WAN

NGFW with built-in, best-of-breed SD-WAN capab enterprise branch.



## ability enables digital transformation at the



### **Products**

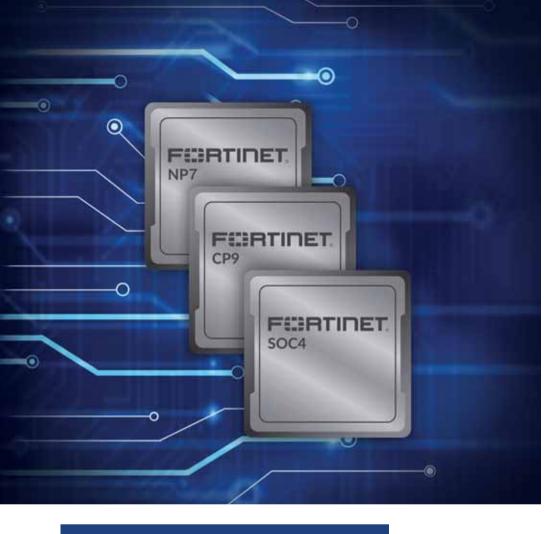
- FortiGate NGFW (at FortiOS 5.6 & above)
- FortiManager

## **Key Features**

- Application-aware steering
- Automated WAN path intelligence
- Single-pane-of-glass management with zerotouch provisioning
- SD-WAN features include in base license

### **Benefits**

- High application performance
- Reduced WAN OPEX
- Safe Internet access for branch sites
- Reduced complexity, easier management



# Fortinet Security Processors

# Specialized chip design delivers more processing power

Fortinet's purpose-built architecture delivers extremely high throughput and exceptionally low latency. These purposebuilt security processors radically boost performance and scalability to enable the fastest network security appliances available.



# Most Certified in the Industry

Fortinet is the only network security vendor to earn independent certifications across all core security technologies

Fortinet demonstrates our ability to consolidate multiple security technologies while still meeting the highest standards of performance and accuracy.



















# Corporate Overview

## Forward looking market leadership

Fortinet pioneered an innovative, high performance network security solution. We address the fundamental problems of an increasingly bandwidth-intensive network environment and a more sophisticated IT threat landscape. We are a leading provider of network security appliances and the leader in Unified Threat Management, or UTM solutions.

Fortinet is a worldwide leading provider of UTM appliances, with a 17% year over year growth in the UTM security appliance market according to IDC Q4 2018.





#### Cautions and Warnings

#### Environmental specifications

Ambient operating temperature: 0°C to 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 environnemental (Température de fonctionnement, température de stockage, humidité et l'altitude).

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. 14 peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

#### 整生

本雷池如果更換不正確會有爆炸的危險

請依製造商說明書處理用過之電池

here is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.

Dispose batteries of according to the manufacturer's instructions.

Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in

Leaving a battery in an extremely hot environment can result in leakage of flammable liquid. gas, or an explosion

If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion

#### WARNIJNG:

Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann.

rlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Caution: Shock Hazard. Disconnect all power sources. Attention: Bisque d'électrocution. Débranchez toutes les sources d'alimentation.

This product is intended to be supplied by a Listed pluggable A via Class I external power supply adapter by means of a power cord connected to a socket-outlet with earthing connection

Ce produit est destiné à être alimenté par un adaptateur d'alimentation externe de classe l par l'intermédiaire d'un cordon d'alimentation enfichable de classe A qui doit être branché à une prise de courant avec terre.

#### **Regulatory Compliance**

#### Federal Communication Commission (FCC) - USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following

(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 reasonable protection against naminimenterior 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

this equipment does cause harmful interference to radio or television reception, which can but a coupling to be acceptable to the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Recrient 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

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 of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

#### Industry Canada Equipment Standard for Digital Equipment (ICES) - Canada

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

Cet annareil 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 the following two conditions:
This device may not cause interference

2. This device must accept any interference, including interference that may cause undesired operation of the device

metteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux L'emetueur/recepteur exempt de licence contenu dans le présent appareil est conformé aux CNR d'innovation, Sciences et Développement économique Canada applicables aux appa-reils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: 1. L'appareil ne doit pas produire de brouillage;

L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm 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 20cm de distance entre la source de rayonnement et votre corps.

Antenna	Q'ty	Antenna Type	Connector	Gain(dBi)/2.4GHz
BT.	1.	PIFA -	IPEX4	0.78

#### 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

2402-2480MHz less than 20dBm

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.

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

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

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

#### Festi

See toode vastab direktiivile 2014/53/EL

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

#### **Fsnañol**

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

#### Ελληνική

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

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

#### Hrvatski

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

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

#### Latviski

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

Šis gaminys atitinka direktyvą 2014/53/ES.

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

### Magyar

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

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

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

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

### Português

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

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.

Tämä tuote on direktiivin 2014/53/EU mukainen.

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

#### Voluntary Control Council for Interference (VCCI) - Japan

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

#### Product Safety Electrical Appliance & Material (PSE) - Japan

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

#### Bureau of Standards Metrology and Inspection (BSMI) - Taiwan

e conditions of the restricted substance (BSMI RoHS table) are available at the link below: 限用物質含有情況表 (RoHS Table) 請到以下 網址下載;

英屬蓋曼群島商防特網股份有限公司台灣分公司 地址:台北市内湖區行愛路17g號2樓 電話:(02)279g1ggg

### National Telecommunications Commission (NCC) - Taiwan

#### NCC警語

根據NCC低功率電波輻射性電機管理辦法規定:

第十二條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得 擅自變更頻率、加大功率或變更履設計 之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信: 經發現有干擾現 象時,應立即停用,並改善至無干擾時 方得繼續使用。 育項合法通信,指依電信法規定作業之無線電通信。 低功率射頻電機羽忍受合法通信或工業、科學及醫療用電波輻射性電 機設備之干擾。

高微益指向性天線日復應田於固定式點對點系統

本產品電磁波曝露量 (MPE) 標準值 1mW/cm2, 建議使用時至少距離人體20cm

#### Fortinet Product License Agreement / EULA and Warranty Terms

Product License Agreement

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