

QuickStart Guide

FortiGate® 100F Series



Product Registration

Thank you for purchasing a FortiGate. To access:

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

Please register your FortiGate:

Vous devez enregistrer le produir:

Debe registrar el producto:

登録のお願い:

请马上注册:

http://support.fortinet.com



November 20, 202

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Fortinet Security Fabric

Package Contents

FortGate 101F

FortiGate® 100F Series



QuickStart Guide



2x Power Cables

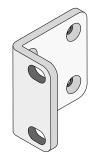


Ethernet Cable



USB Console Cable (Optional, available for purchase)

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2x Rack Mount Brackets

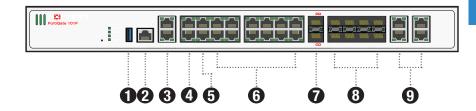


8x Bracket Screws



4x Rubber Feet

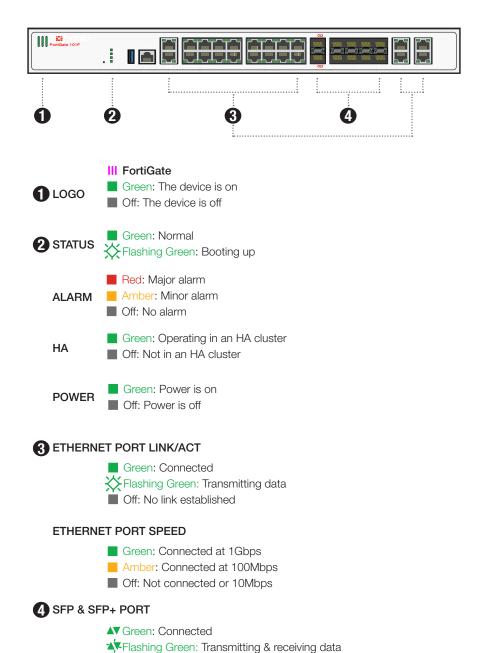
Front Panel - Interfaces



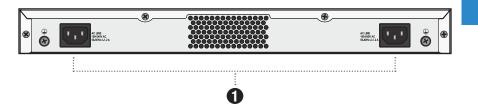
- 1 USB (USB A) USB 3.0 server port
- 2 Console (RJ-45) CLI management computer port
- 3 MGMT (RJ-45) 1 Gbps Ethernet client port
 DMZ (RJ-45) 1 Gbps Ethernet DMZ network port
- 4 WAN 1 & 2 (RJ-45) 1 Gbps Ethernet WAN ports
- 5 HA1 & HA2 (RJ-45) 1 Gbps Ethernet High Availability ports to FortiGate units
- 6 Ethernet Ports 1 to 12 (RJ-45) 1 Gbps Ethernet ports
- **7** FortiLink X1 & X2 (SFP+) 10 Gbps Ethernet FortiLink auto-detect ports
- **8** SFP Ports 13 to 20 (SFP) 1 Gbps SFP ports Note: Ports 17 to 20 are shared Ethernet ports
- **9** Ethernet Ports 17 to 20 (RJ-45) 1 Gbps Ethernet ports Note: Ports 17 to 20 are shared SFP ports

Front Panel - LED Guide

Rear Panel



▲▼Off: No link established



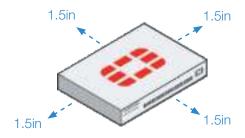
Redundant Power Supplies 100 - 240V AC, 2-1.2A, 50/60Hz

Installation

Your FortiGate includes rack mount brackets and screws to mount in any 19 inch rack. You can also install your Fortigate as a Desktop device. Sliderall kits are also available.

Desktop Mount

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

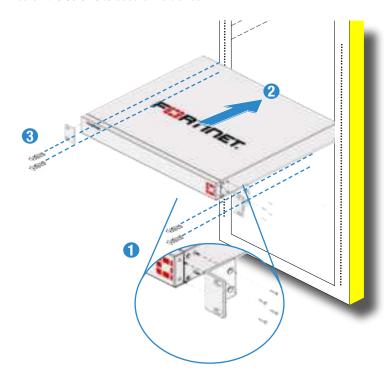


3. Plug the provided power cable into the rear of the unit and then into a grounded electrical outlet or separate power source

Rack Mount

Note: To avoid personal injury or damage to the device, we recommended that two or more people install the unit on a rack.

- 1. Attach the provided rack-mount brackets and screws
- 2. Position the device and slide into the rack
- 3. Fasten the screws to secure the device



Caution: The recommended clearance is 1.5 inches above and below the device

Basic Connections

Power Connection Supplied Power Cable Power Outlet or UPS Supplied Power Cable Power Outlet or UPS Supplied Power Cable Internet Ethernet Cable

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

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

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.





GUI

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



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.



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.

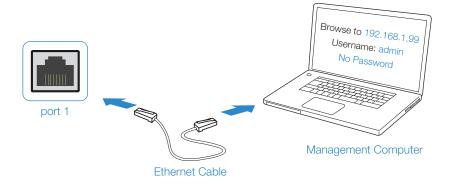
Requires a console cable (available for purchase).



- 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

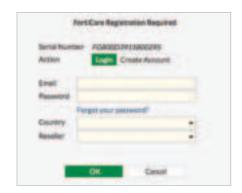
3. Visit 192.168.1.99 in a web browser



4. Log in with username admin and no password



5. When prompted to register, enter your Fortinet credentials



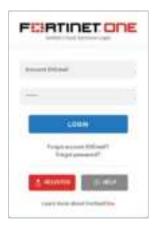
6. The FortiCare Support Status in the FortiOS License Information widget will change to Registered



BFortiGate Cloud

FortiExplorer App Store

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

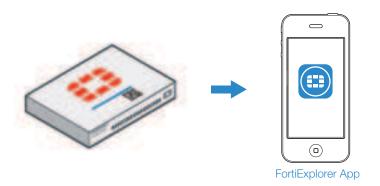


3. You can now manage your device from the cloud

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

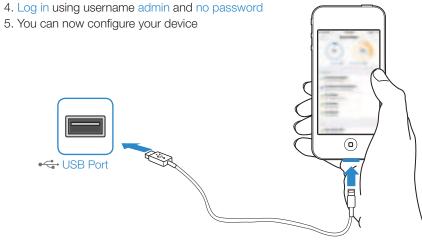
1 Cloud Key Setup

- 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



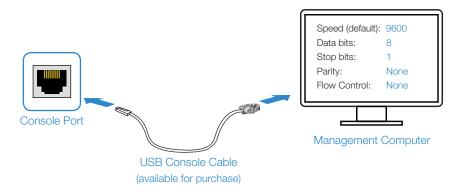


- 1. Download and launch the FortiExplorer iOS App
- 2. Connect your Apple Lightning to USB cable to the FortiGate/FortiWiFi USB port
- 3. Tap your device when it appears in FortiExplorer



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- 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

Get dynamic and system information. se feetlity. static com Portidate # config ? Alert seall configuration. Antivirus configuration. estivizos. application Application control configuration. Cliest reputation tracking configuration Lieut-repatation BEF configuration. Embount control configuration. PTP proxy configuration. GUI configuration. tray client configuration. IN a FIF policy 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-toremember IP address.

Fortinet DDNS Service







access using mobile devices. Available for iOS and Android devices. Get extra tokens from your Fortinet reseller.

2 FortiToken Mobile Licenses

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

Identify device type and OS information. Great for organizations who want to enforce device-based policies so that employees can bring in their devices.

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	360 Protection	Enterprise Protection	υтм	Threat Protection
FortiCare	ASE	24x7	24x7	24x7
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	\checkmark			

The Fortinet Security Fabric

Broad

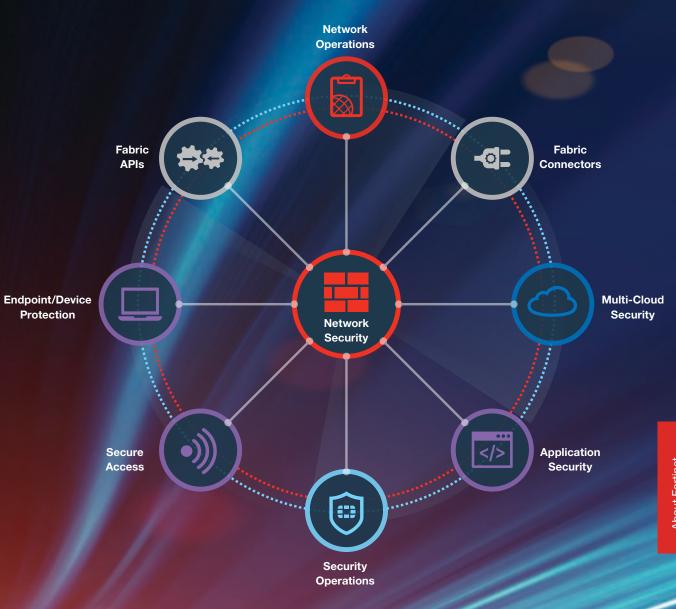
Visibility of the entire digital attack surface

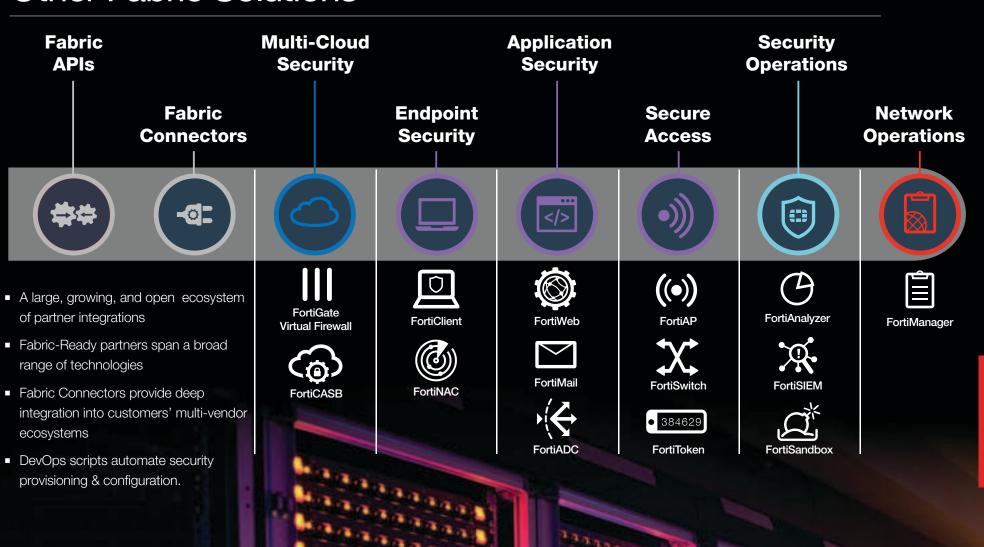
Integrated

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

Automated

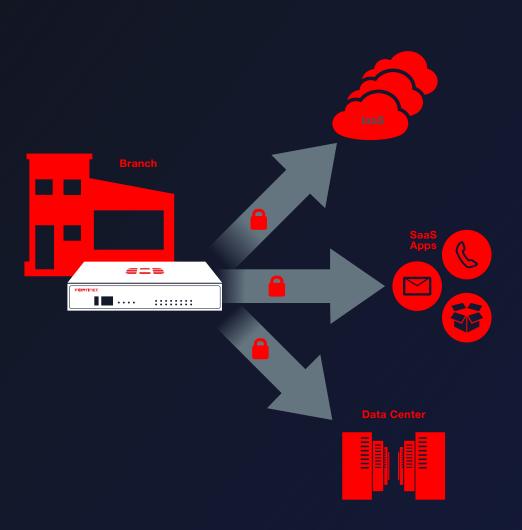
Operations, orchestration and response





Solution Spotlight: Secure SD-WAN

NGFW with built-in, best-of-breed SD-WAN capability enables digital transformation at the enterprise branch.





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 environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude),

Rack Mount Instructions - The following or similar rack-mount instructions are included with

Instructions de montage en rack - Les instructions de montage en rack suivantes ou

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer. Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Ventilation réduite – installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading. Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern. Surtension – Il convient de prendre l'ensemble des précautions nécessaires lors du

branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux oral centent de requipement au cricuir d'animentation et et de particulierinent actenin aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Periodia attenti n'enelade admini o riadori monte adpini nel solución de la Periodia attenti en el periodia attenti en solució de given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Flabilité de la mise à la terre – Flabilité de la mise à la terre de l'équipement monté en

rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Safety

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 ietez 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

本電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

There 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.

If a battery is subjected to extremely low air pressure, it may result in leakage of flammable

WARNUNG:

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

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

Verlassen 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: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

Regulatory Compliance

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

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product 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 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

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regula-tions of the Canadian Depart

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications 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:

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 apparells radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: 1.L'appareil ne doit pas produirs de brouillage; 2.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 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.

European Conformity (CE) - EU

This is a Class A 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 & 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.

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

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.

See toode vastab direktiivile 2014/53/EL.

This product is in compliance with Directive 2014/53/FLL

Español

Este producto cumple con la Directiva 2014/53/UE

Ελληνική

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

Français

Hrvatski

Ce produit est conforme à la Directive 2014/53/UE. Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

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

Šis produkts atbilst Direktīvai 2014/53/ES. Lietuviu

Šis gaminys atitinka direktyva 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 Bichtliin 2014/53/EU.

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

Ten produkt iest zgodny z dyrektywa 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

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

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

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

Voluntary Control Council for Interference (VCCI) - Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き 起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求される ことがあります。

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

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below: 即用物質含有情况表 (RoHS Table) 清到以下 細址下載,

此為甲類資訊技術設備,於居住環境中使用時,可能會造成射頻擾動,在此種情況下,使 用者會被要求採取某些適當的對策。

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176號2樓 電話: (02) 27961666

National Telecommunications Commission (NCC) - Taiwan

取得審驗證明之低功率射頻器材,非經核准,公司、商號或使 用者均不得擅自變更頻 我可曾会感到之。以为于到分配的、非少次(市)、公司、同类以、所以为"行"自己之之为。 是、加大为事业发更层层治之特性及功能、低力率射频器科之用不得影響療能安全及干擾合法通信。經發現有干擾預象時,應立即停用,並改善至無干擾時方得繼續使用。前述合法通信,指依電信管理法规定作業之無線電通信。低功率射频器材刻忍受合法通信或工業、科學太陽發用電波輻射性電機設備之才整。

電磁波曝露量MPE標準值1mW/cm²,建議使用時至少距離人體 20 cm

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