QuickStart Guide

FortiGate 900G Series

FG-900G, FG-900G-DC, FG-901G, FG-901G-DC

The Essentials

Secure Your Network

For support and to get the latest threat protection updates visit https://support.fortinet.com

Fortinet Documents Library

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

FortiGate Cloud

Experience simplified cloud provisioning, security analytics, remote access, hosted log retention, and reporting at https://fortigate.forticloud.com

Quick Start Guide Online

Please refer to the online version for the most current and up-to-date information about your device at https://docs.fortinet.com/document/fortigate/hardware/fg-900g-series-qsg

You may also scan the QR code below.

Package Contents

FortiGate 900G Series

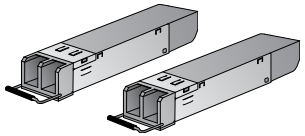
FG-900G, FG-901G, FG-900G-DC, FG-901G-DC

1x FortiGate Device

1x QuickStart Guide

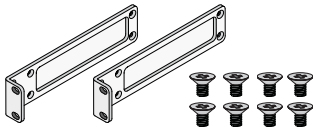
4x Rubber feet

1x Ethernet Cable



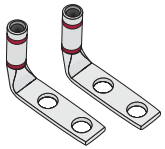
2x SFP SX Transceivers

1x Console Cable

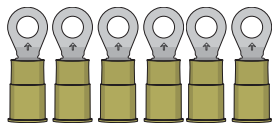


2x Mounting Bracket
8x Rack mount screws

2x AC Power Cables
(AC models only)



2x Grounding Lugs
(DC models only)



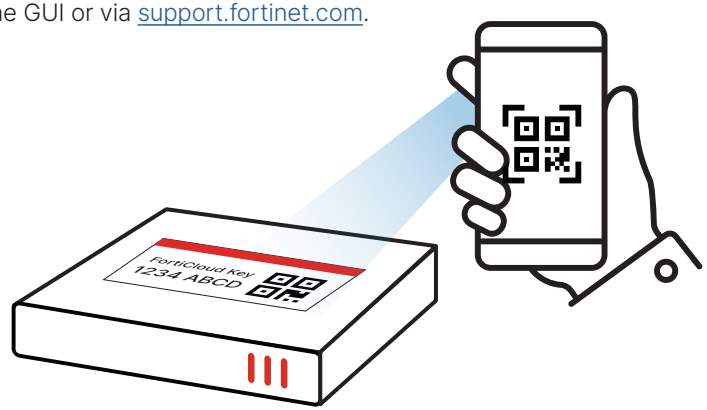
6x Terminal Rings
(DC models only)

Setup

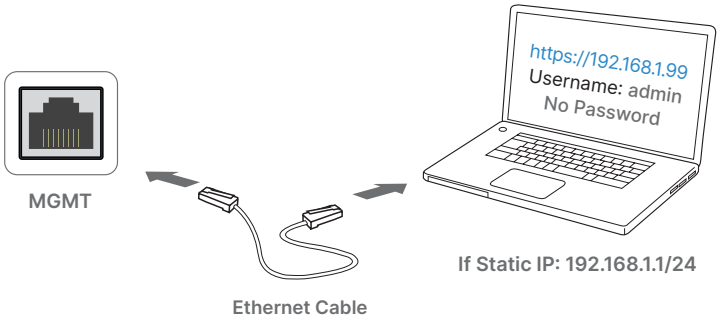
Registration

Locate the FortiCloud key label with QR code on the top of your unit. After scanning the QR code with your phone you'll have the option to register and provision your device using your phone or computer.

Alternatively, you can register your device from the GUI or via support.fortinet.com.



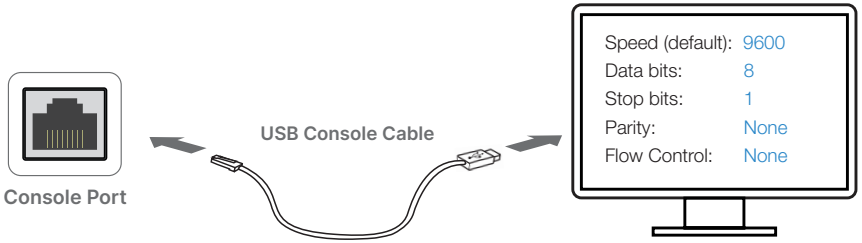
GUI



1. Connect MGMT to an Ethernet port or USB-RJ45 Ethernet adapter on your computer using the provided Ethernet cable.
2. Open a browser to https://192.168.1.99 and complete device registration.

* Refer to the FAQ for help with the registration process: https://docs.fortinet.com/document/fortigate/hardware/registration-before-device-configuration-faq

CLI



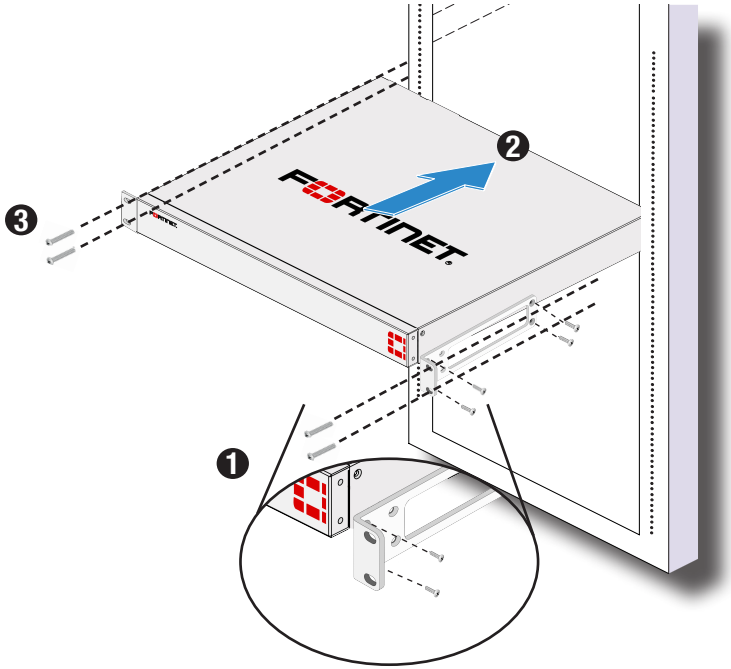
1. Connect a console cable to the Console Port.
2. Open a Terminal app using 9600-8-N-1.

Default Login

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

Installation

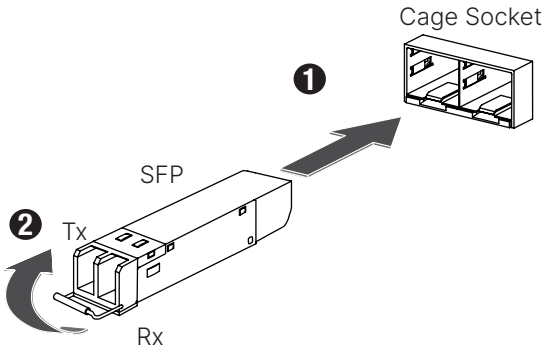
Caution: To avoid personal injury or damage to the device, it is recommended that two or more people mount the device on a rack.



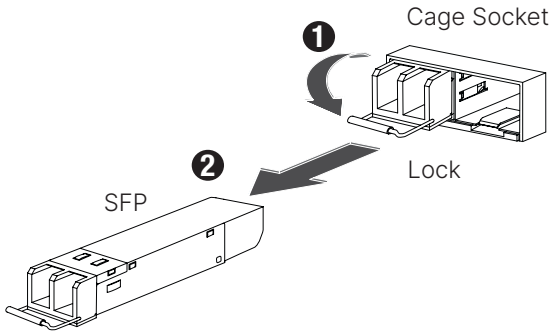
Note: The recommended clearance is 1.5 inches above and below the device.

SFP Modules

Insertion

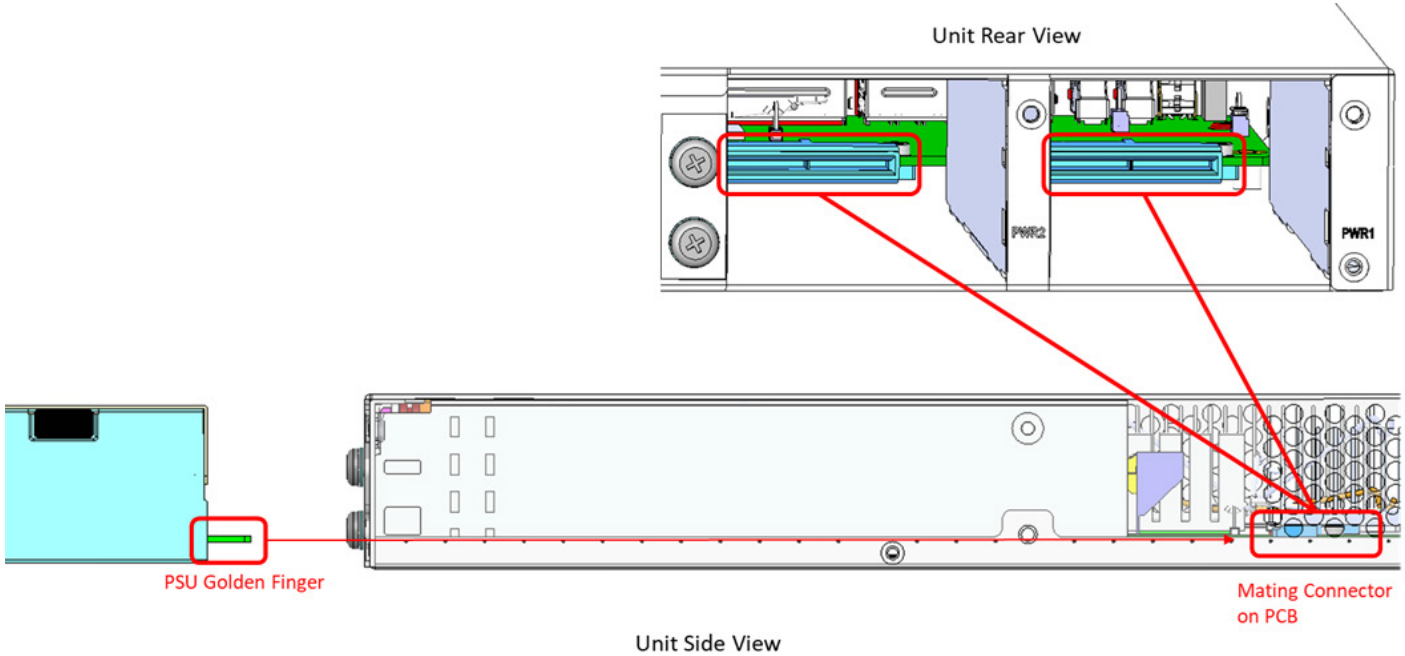


Removal



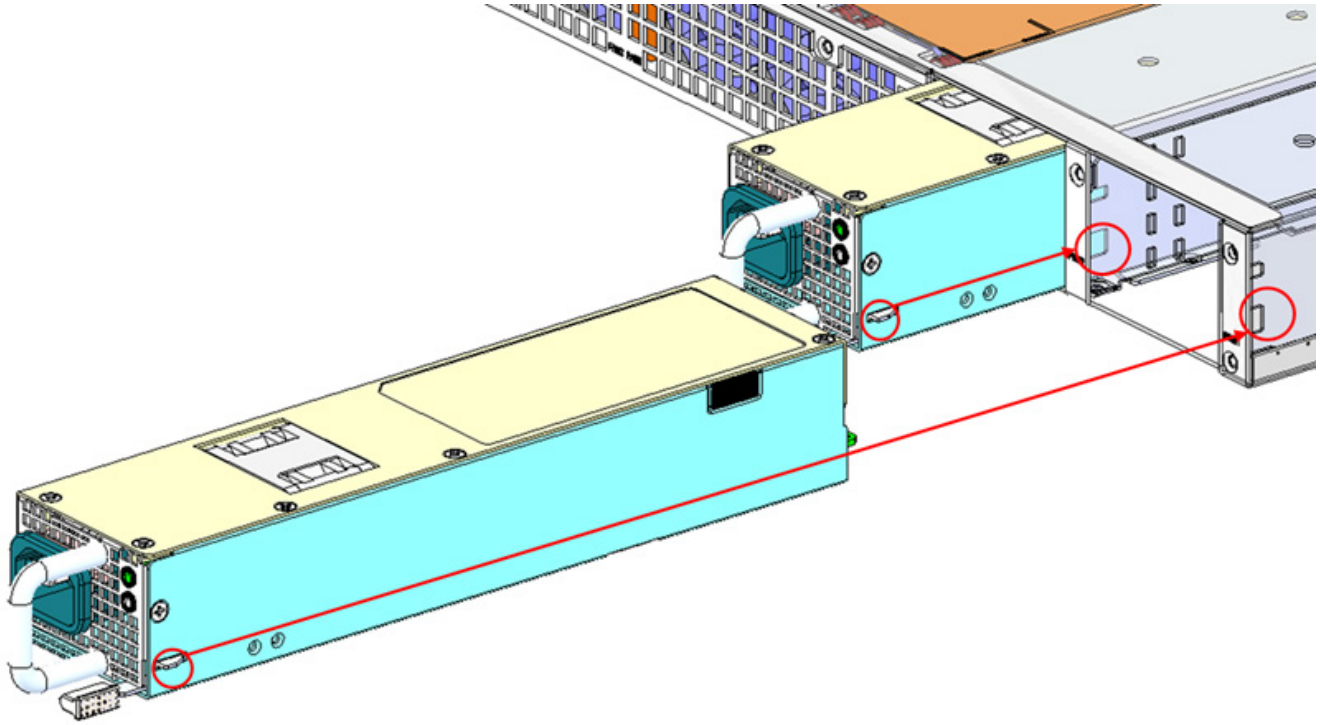
PSU Installation

When inserting the PSU, the PSU gold finger connector edge (golden finger) needs to be at the bottom side, to line up with the mating connector on the PCB (highlighted in blue) to make sure it is installed correctly.

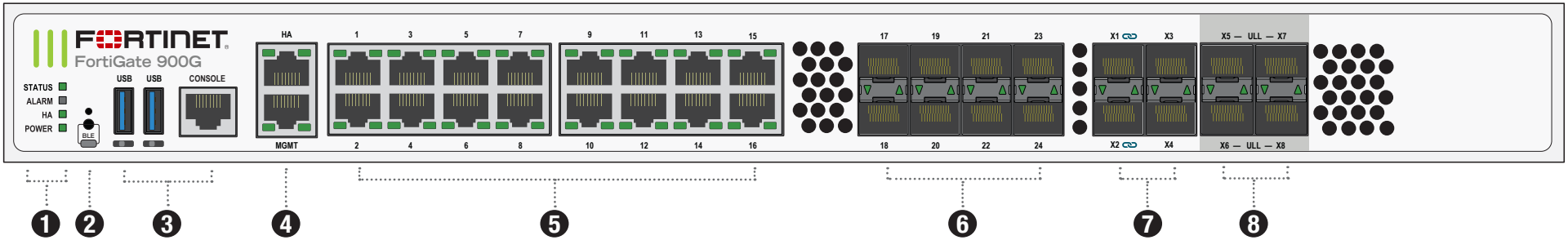


Check PSU Lock Position

Once PSU is inserted, both latches on PSU right side should be locked in the small opening on PSU cage. PSU cannot be pulled out once latch is locked. Also power cord can be inserted to PSU, check if the PSU lights are on.



Front FG-900G Series



1 STATUS

- **Green**: Operating normally
- **Flashing Green**: Booting up
- **Red**: Major alarm detected
- **Off**: Device is off

ALARM

- **Red**: Major alarm
- **Amber**: Minor alarm
- **Off**: No alarms

HA

- **Green**: HA enabled (normal)
- **Red**: HA enabled (failover)
- **Off**: HA disabled

POWER

- **Green**: Device is on
- **Off**: Device is off

2 BLE Button Press to enable BLE

- **Blue**: BLE on
- **Flashing Blue**: BLE in discovery
- **Off**: BLE off

3 USB 3.0 Port (USB-A) x2

CONSOLE Port (RJ-45)

4 HA Port (RJ-45) 2.5/1 Gbps High Availability port

MGMT Port (RJ-45) 1GE Management port

HA and MGMT LINK/ACT (Left LED)

- **Green**: Connected
- **Flashing Green**: Data activity
- **Off**: Not connected

HA SPEED (Right LED)

- **Green**: 2.5 Gbps
- **Amber**: 1000/100 Mbps
- **Off**: 10 Mbps or not connected

MGMT SPEED (Right LED)

- **Green**: 1 Gbps
- **Amber**: 100 Mbps
- **Off**: 10 Mbps or not connected

5 Ports 1 to 16 (RJ-45)

LINK/ACT (Left LED)

- **Green**: Connected
- **Flashing Green**: Data activity
- **Off**: Not connected

SPEED (Right LED)

- **Green**: 1 Gbps
- **Amber**: 100 Mbps
- **Off**: 10 Mbps or not connected

6 Ports 17 to 24 (SFP)

- **Green**: Link established at 1 Gbps
- **Flashing Green**: Data activity
- **Off**: No link established

7 FortiLink Ports X1 to X4 (SFP+)

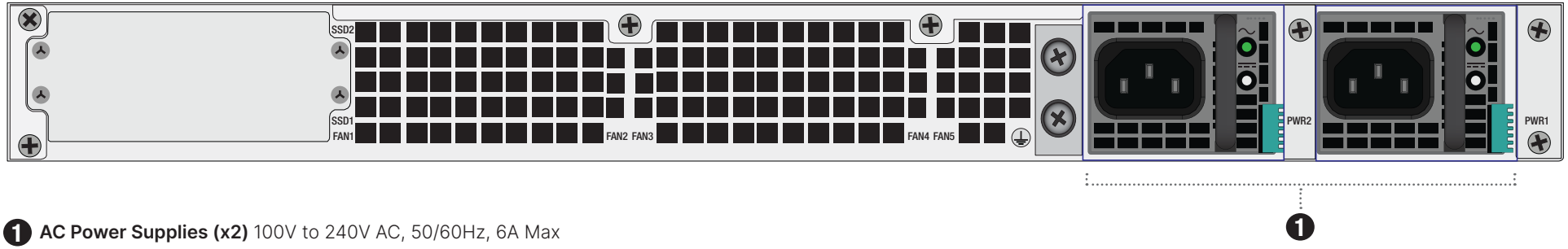
- **Green**: Link established at 10/1 Gbps
- **Flashing Green**: Data activity
- **Off**: No link established

8 Ultra Low Latency Ports X5 to X8 (SFP28)

- **Green**: Link established at 25/10 Gbps
- **Flashing Green**: Data activity
- **Off**: No link established

Rear FG-900G Series

FG-900G, FG-901G



1 AC Power Supplies (x2) 100V to 240V AC, 50/60Hz, 6A Max
1+1 Redundant, hot-swappable power supplies

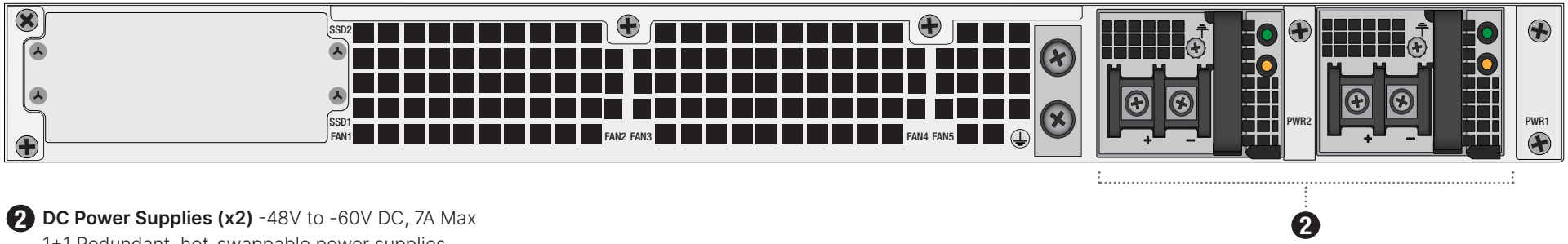
Input Voltage LED

- **Green**: Operating normally
- **Flashing Green**: Warning
- **Off**: No input power

Output Voltage LED

- **Green**: Operating normally
- **Flashing Green**: Standby mode
- **Flashing Amber**: Warning
- **Amber**: Critical failure
- **Off**: No output power

FG-900G-DC, FG-901G-DC



2 DC Power Supplies (x2) -48V to -60V DC, 7A Max
1+1 Redundant, hot-swappable power supplies

Top LED

- **Green**: Operating normally
- **Flashing Green**: Standby mode
- **Off**: No DC input

Bottom LED

- **Amber**: Critical failure
- **Flashing Amber**: Warning
- **Off**: Operating normally

DC Models Only (FG-900G-DC and FG-901G-DC)
This product is only intended for installation and use in a Restricted Access Location. The DC power cables are intended to be used only for in-rack wiring, must be routed away from sharp edges, and must be adequately fixed to prevent excessive strain on the wires and terminals. DC cables must be a minimum of **12 AWG**. For **DC Cables Installation**, ensure the terminal rings are securely and safely fastened to the PSU terminals.

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

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 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 l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
Fiabilité de la mise à la terre– Fiabilité 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).

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

Moving parts — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Skilled person must install the equipment.
L'équipement doit être installé par une personne qualifiée.

Warning: A readily accessible disconnect device shall be incorporated in the building installation wiring.
Avertissement: Un dispositif de déconnexion facilement accessible doit être incorporé dans l'installation électrique du bâtiment.

Warning: A UL Listed external disconnect device, i.e. circuit breaker or other, with over current protection suitable for local code(rated 16A recommended) shall be installed with this equipment.
Avertissement: Un dispositif de déconnection externe homologué UL, exemple d'un disjoncteur ou autre, avec des protections de surintensité appropriées (nominal 16A recommandé) à l'installation de ce matériel.

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.

警告
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

CAUTION: Shock Hazard. Disconnect all power sources.
ATTENTION: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.
Mise à la terre — Pour éviter d'endommager votre matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

Laser Class 1 optical transceiver shall be used only
L'émetteur-récepteur optique de classe 1 laser doit être utilisé uniquement

IEC 60825-1:2014 transfer to FDA/CDRH Complies with FDA performance standards for laser products except for conformance with IEC 60825-1 Ed.3., as described in Laser Notice No. 56, dated May 8, 2019.
IEC 60825-1:2014 transfert à la FDA/CDRH Conforme aux normes de performance de la FDA pour les produits laser, à l'exception de la conformité à la norme IEC 60825-1 Ed.3., comme décrit dans l'avis laser n° 56, daté du 8 mai 2019.

The SFP ports should use UL Listed Optional Transceiver product, Rated 3.3Vdc, Laser Class 1.
Les ports SFP doivent utiliser un produit émetteur-récepteur en option répertorié UL, 3,3 Vdc, classe laser 1.

Fiber optic transceiver must be rated 3.3V, 22mA max, Laser Class 1, UL certified component.
Le transceiver optique doit avoir les valeurs nominales de 3.3 V, maximum 22 mA, Laser Class 1, homologué UL

Warning: Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltage on accessible metal parts.
Avertissement: Équipement de classe I. Cet équipement doit être mis à la terre. La fiche d'alimentation doit être connectée à une prise de terre correctement câblée. Une prise de courant mal câblée pourrait placer une tension dangereuse sur les pièces métalliques accessibles.

Warning: All Ethernet cables are designed for intra-building connection to other equipment. Do not connect these ports directly to communication wiring or other wiring that exits the building where the appliance is located.
Avertissement: Tous les câbles Ethernet sont conçus pour une connexion intra-bâtiment à d'autres équipements. Ne connectez pas ces ports directement au câblage de communication ou à tout autre câblage qui sort du bâtiment où se trouve l'appareil.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class 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-003 (A) / NMB-003 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.
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:
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.

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.

This radio transmitter (***Contains IC:7280B-111T15D)*** 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 (***Contains IC:7280B-111T15D***) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

Ant.	Brand Holder	Model Name	Antenna Type	Connector	Antenna Gain (dBi)
1	Wieson	ARY196-0346-005-00	PIFA	Ipex I	1.82
2	INPAQ	WA-F-LA-02-114	PIFA	Ipex I	0.73

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 listed below:

2402-2480MHz less than 20dBm

Simplified EU Declaration of Conformity
This declaration is only valid for Fortinet products (including combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end-customer directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

Български
Този продукт е в съответствие с Директива 2014/53/ЕС.

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

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

Deutsch
Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti
See toode vastab direktiivile 2014/53/EL.

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

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

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

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

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

Italiano
Questo prodotto è conforme alla Direttiva 2014/53/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

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 e.i.r.p. of the product for sale in the EU:

Frequency Range (MHz)	Maximum e.i.r.p. (dBm)
Bluetooth 2.4GHz	4.13

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

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

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。

VCCI—A

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:
限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
https://www.fortinet.com/bsmi

警告: 為避免電磁干擾，本產品不應安裝或使用於住宅環境。

請仔細閱讀以下說明
本設備勿置於潮濕處。
連接至電源前，請先檢查電壓。
當設備不用時，請將所有電源線拔除，避免電壓不穩而造成傷害。
勿將任何液體濺入設備中，避免線路短路。
基於安全理由，只有受到專業訓練的從業人員，才可以打開本設備。
請勿自行調整或修理已通電的設備，以確保您的安全。
如不小心受傷，請立刻找急救人員給予您適當的救護，千萬別因傷勢輕微而忽略自己的傷勢。

請依照台灣法規處置電池。
若不正確替換電池可能導致爆炸危險，替換電池時，請使用設備生產商推薦使用的電池。
請勿拆卸、刺穿或以其他方式損壞電池。

雷射設備非用戶維修設備，請與生產商聯繫維修事宜。

注意: 要斷開電源，請將所有電源線從本機上拔下

英屬蓋曼群島商防特網股份有限公司台灣分公司
地址：台北市內湖區行愛路176號2樓
電話：(02) 27961666

National Telecommunications Commission (NCC) – Taiwan

NCC警語

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率、加大功率或變更原設計之特性及功能。低功率射頻器材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。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須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。

China

警告：在居住环境中，运行此设备可能会造成无线电干扰。

Agência Nacional de Telecomunicações (ANATEL) – Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.
http://www.gov.br/anatel/pt-br/

September 28, 2026

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FG-900G-Series-QSG-20260928