

FortiTester 2500E

QuickStart Guide



August 23, 2017

20170823

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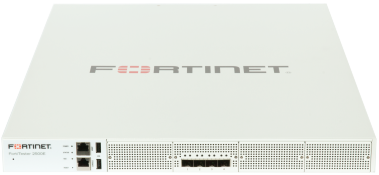
Debe registrar el producto para recibir:
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- Nuevas funcionalidades del producto
- Protección contra ataques

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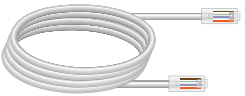
FortiTester 2500E



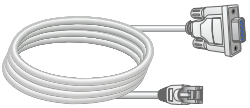
Quickstart Guide



2 Power cables



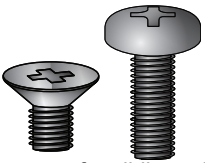
Ethernet cable



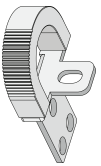
Console cable



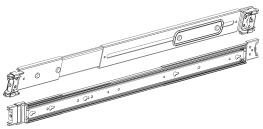
5 Rubber feet



6 M4 screws for sliding rails handles
2 M6 rack mount screws



2 Sliding rail handles



2 Sliding rails

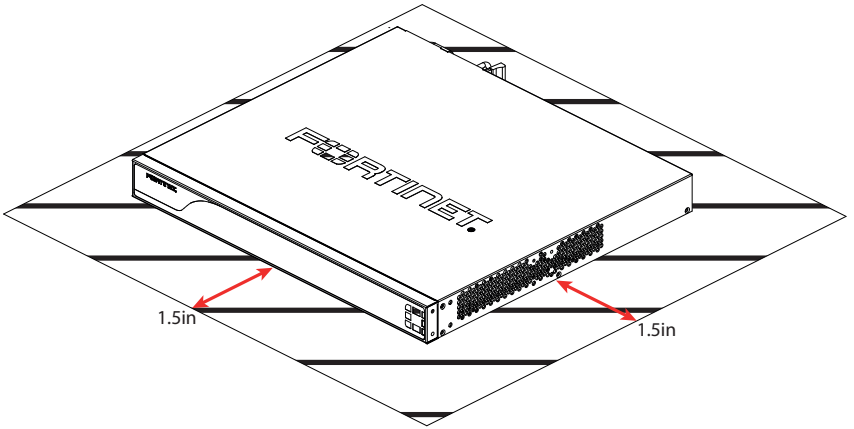
1 Installation

Please read “Cautions and Warnings” prior to installing your device.

The appliance can be placed on any flat surface, or mounted in a standard 19 inch rack.

To install the appliance on a flat surface

1. Ensure that the surface onto which the appliance is to be installed is clean, level, and stable and that there is at least 1.5in (3.8cm) of clearance on all sides to allow for adequate airflow.
2. Attach the provided rubber feet to the bottom of the appliance.
3. Place the appliance in the designated location.
4. Verify that the spacing around the appliance conforms to requirements and that the unit is level.



To install the FortiTester unit into a rack:

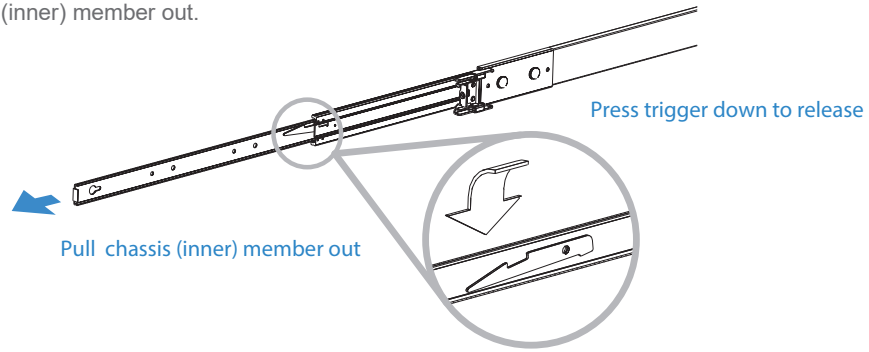
1. Ensure that the FortiTester unit is placed on a stable surface prior to rack-mount installation.
2. Assemble the rails and install the system in the rack following the safety instructions and the rack installation instructions in Rail Installation (p. 6).
3. Verify that the spacing around the FortiTester unit conforms to requirements and that the unit is level.
4. Connect the provided power cables to the system.
5. Plug the other end of the power cables into separate power sources, such as uninterruptible power supplies (UPS) or power distribution units (PDU).
6. Insert one end of the provided Ethernet cable into one of the Ethernet ports on the FortiTester unit. Insert the other end to a router or switch that is connected to the internet.
7. Press the power button on the system to turn on the device.

Do **NOT** place heavy objects on the unit.

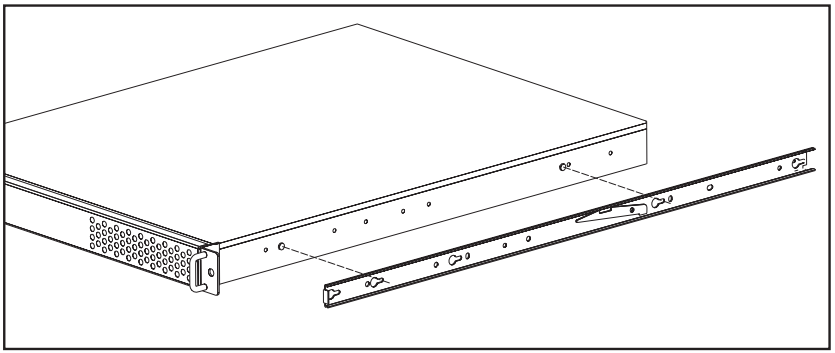
2 Rail Installation

To install the FortiTester unit using the rail mounted kit:

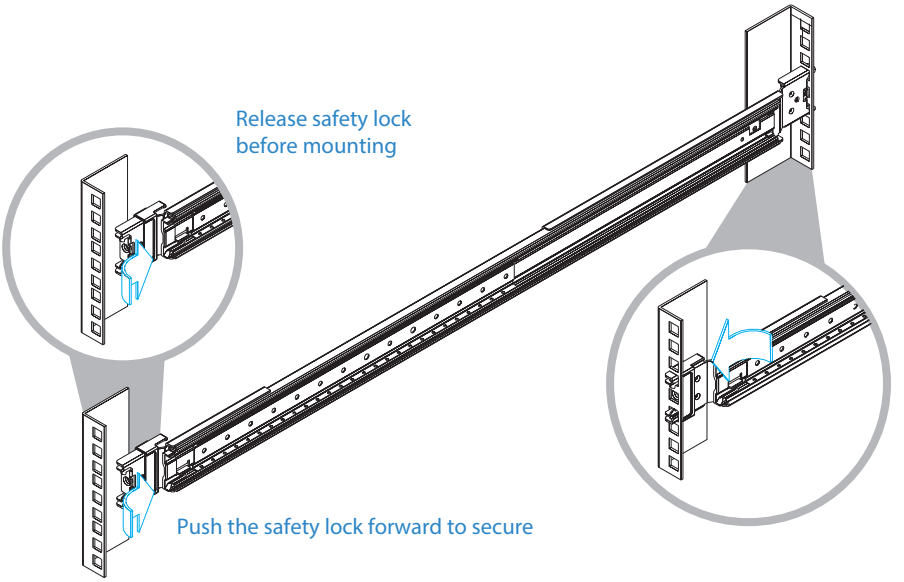
1. To remove the chassis (inner) member, pull the slide open, and then press the trigger down as shown on the drawing, and pull the chassis (inner) member out.



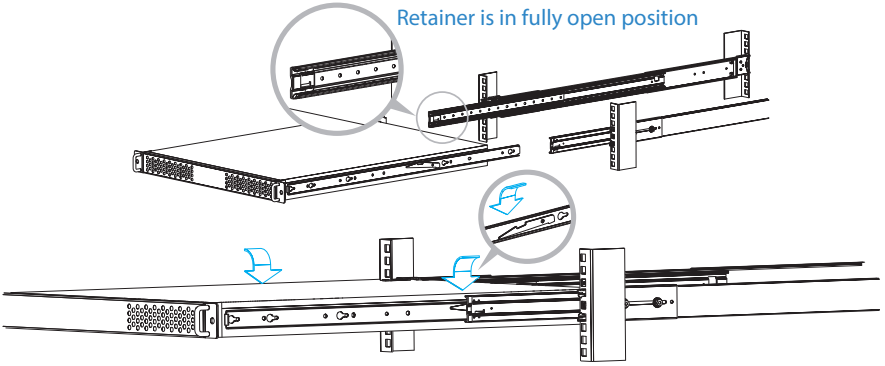
2. Use the standoffs to mount the chassis (inner) member to the chassis.



3. To attach the cabinet (outer) member of the rail, first ensure that the safety lock is in the unlocked position. Then, insert the stag into the upper and lower square holes on the EIA rail from the back of the rail. Finally, push the safety lock forward to secure the bracket.



4. To mount the chassis into the cabinet, first ensure that the ball retainer is in the fully open position. Then, insert the chassis (inner) member into the cabinet member. When you push the chassis back into the cabinet, press the trigger down to release the slide from the locked position.

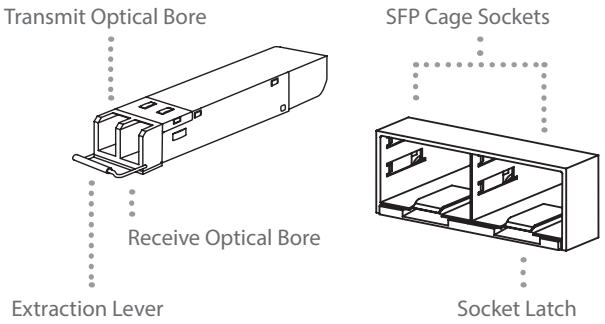


SFP+ Transceivers

Caution:
Transceivers are static sensitive devices Use an ESD wrist strap or similar grounding device when handling transceivers

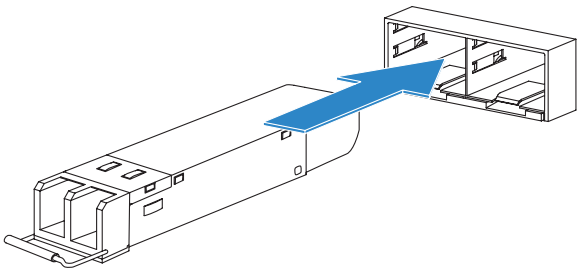
Do not install or remove transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces It may also prevent the transceiver from latching correctly into the socket connector.

Note: Installing and removing transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



To install the transceivers

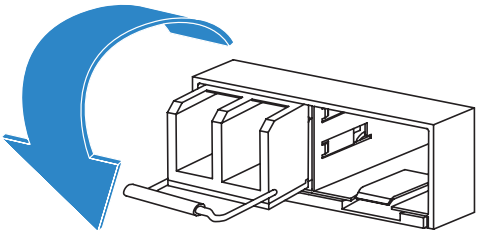
1. Ensure that you are properly grounded.
2. Remove the caps from the cage sockets on the front panel of the unit.
3. Position the transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented. When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.
   Note: Cage socket orientation may vary. Ensure that the transceiver module is correctly oriented each time that you are inserting a transceiver.



4. Hold the sides of the transceiver and slide it into the cage socket until it clicks into place.
5. Press the transceiver firmly into the cage socket with your thumb.
6. Verify that the transceiver is latched corrtectly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever.
   If the transceiver cannot be removed, it is installed and latched correctly.
   If the transceiver can be removed, reinser it and press harder with your thumb
   If necessary, repeat this process until the transceiver is securely latched into the cage socket.

To remove the transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.

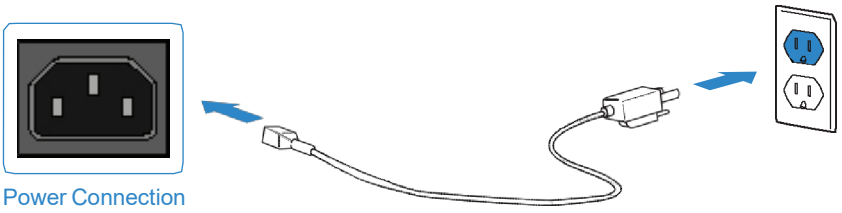


4. Hold the sides of the transceiver and carefully pull it away from the cage socket.
5. Replace the cap on the cage socket and place the removed transceiver into an antistatic bag.

Caution: Do not force the transceivers into the cage slots If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the transceiver, realign it or rotate it and slide it in again.

Note: Follow proper fiber-optic handling procedures when installing and removing transceivers to ensure the devices remain clean and are not damaged

2 Basic Connections



Power Connection

Plug the provided power cable into the rear of the appliance, and then into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).

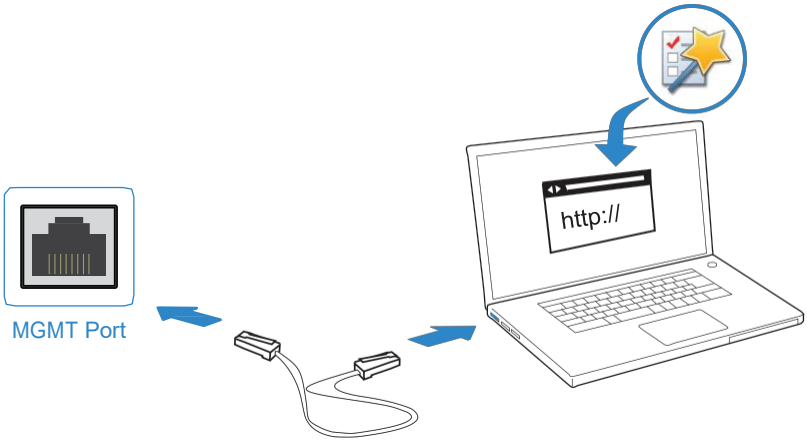
If the appliance has a redundant power supply, connect each power cable to a different power source.

3 Setup Options

A Web Browser

B Terminal Emulation

A Web Browser with Ethernet cable



To connect to the web UI

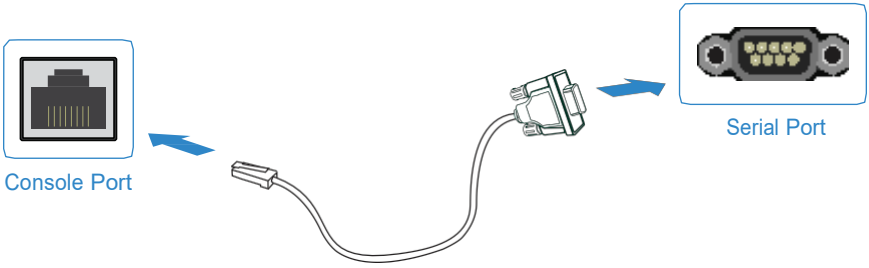
Requires: Microsoft Internet Explorer 9 or higher, the latest version of Mozilla Firefox, Apple Safari 6, or Google Chrome.

1. Using the Ethernet cable, connect the appliance management port to your computer.
2. Configure your computer to match the appliance management port default subnet. For example, from the Windows 7 Control Panel, go to Network and Sharing Center. Click the Local Area Connection link, and then click the Properties button. Select Internet Protocol Version 4 (TCP/IPv4) and then click its Properties button. Select Use the following IP address, and then enter the following settings:

   IP address: 192.168.1.2
   Netmask: 255.255.255.0

3. To connect to the web UI, start a web browser and go to http://192.168.1.99.
4. Type admin in the Name field, leave the Password field blank, and then click Login.

B Terminal Emulation



To connect to the CLI

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server.

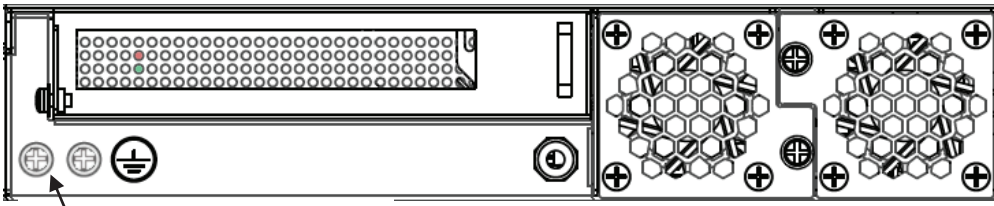
1. Connect the appliance console port to the management computer using the provided console cable.
2. Start a terminal emulation program on the management computer, select the COM port, and use the following settings:

   Baud Rate: 9600
   Data bits: 8
   Parity: None
   Stop bits: 1
   Flow Control: None

3. Press Enter on your keyboard to connect to the CLI.
4. Login using username admin and no password. You can now proceed with configuring your device.

   Get started by typing ? for a list of available commands.

   Begin typing a command then type ? for a list of available ways to complete. For example config ? shows the lowest level of configuration options.

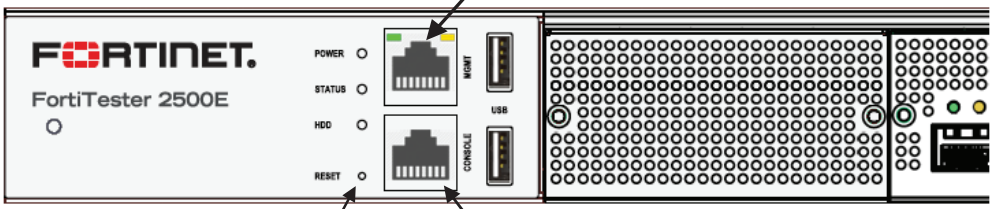


Grounding Screws

Provides extra grounding.

MGMT

Dedicated Gigabit Ethernet Management Port for system management.



Reset Button

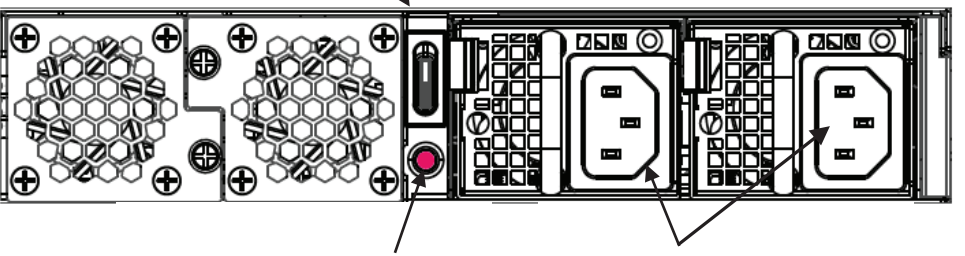
Reboots the system.

Console

Optional connection to the management computer. Provides access to the CLI.

Power Switch

To turn the power ON/OFF.

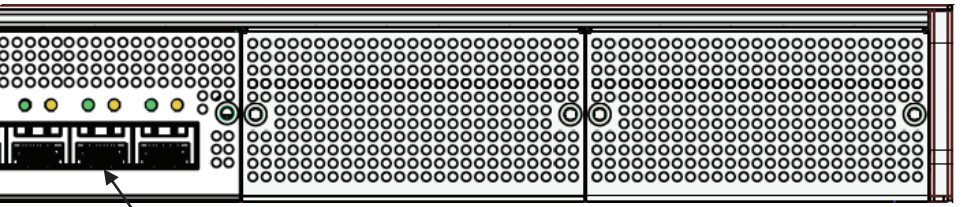


Power Supply Warning Buzz Reset Button

To disable the power supply warning buzz.

Power Connections

100-240V AC, 50-60 Hz, 5-3 A.
Redundant Power Supply.



SPF+ Ports 1-4

10 Gigabit Ethernet ports for connections to your DUT.

SSL Accelerator – Alarm

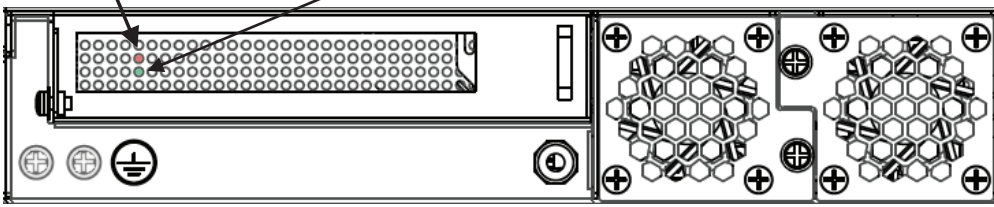
Off: SSL accelerator card is operating normally

Red: SSL accelerator card failure

SSL Accelerator – Power

Green : SSL accelerator is receiving power

Off: SSL accelerator is not powered on



MGMT Port Link/Activity

Flashing Amber : Transmitting & Receiving data

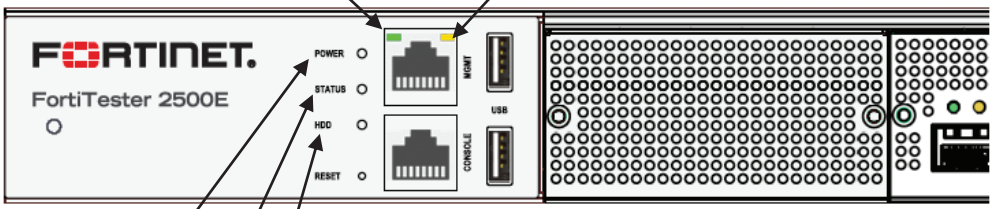
Off: No link established.

MGMT Port Speed

Flashing Amber: Port is connected at 1Gbps

Green: Port is connected at 100Mbps

Off: Port is connected at 10Mbps or is not in use.



Power

Green: The unit is ON

OFF: The unit is OFF

Status

OFF: System is normal

Green: Minor system alarm

Red: System failure

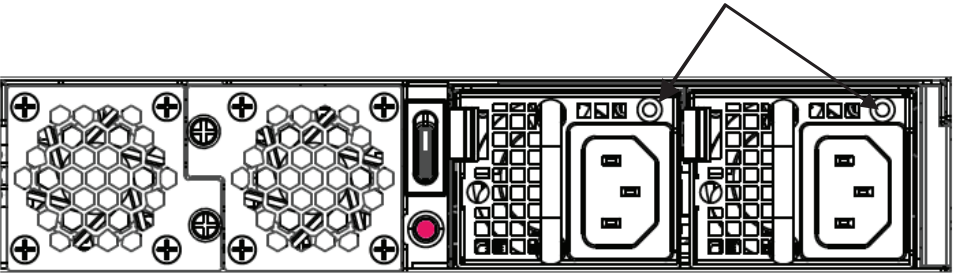
HDD

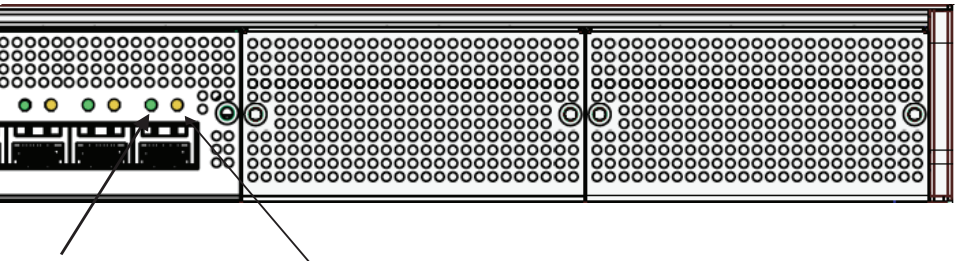
Flashing Amber : HDD in use

Power Supply Status

Green: Power supply is operating normally.

Red: Power supply is not connected to power or mechanical failure.





PORT 1 – 4 Speed

Green: Port is connected at 1Gbps or 10Gbps.
Off: Port is not in use.

PORT 1 – 4 Link/Activity

Amber: Transmitting & Receiving data.
Off: Port is not in use.

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0C to 40C

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

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: Disconnect power supply cords before servicing.

Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.

Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

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 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

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 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.

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.



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。

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

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

這是甲類的資訊產品。在居住的環境中使用時, 可能會造成射頻干擾。在這種情況下，使用者會被要求採取某些適當的對策。

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:

https://www.fortinet.com/bsmi

China

此为 A 级产品。 在生活环境中，该产品可能会造成无线电干扰。这种情况下，可能需要用户对其采取切实可行的措施。

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https://support.fortinet.com

Fortinet Document Library

Up-to-date versions of Fortinet publications for the entire family of Fortinet products. http://docs.fortinet.com

Training Services

Course descriptions, availability, schedules, and location of training programs in your area.
http://www.fortinet.com/support/training.html

Technical Discussion Forums

Communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues.
https://support.fortinet.com/forum

FortiGuard Threat Research and Response

Up-to-date information on vulnerabilities and threats, includes a virus scanner, IP signature look-up, and web filtering tools.
http://www.fortiguard.com

Fortinet Product License Agreement / EULA and Warranty Terms

https://www.fortinet.com/content/dam/fortinet/assets/legal/EULA.pdf

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