

**FORTINET®**



# FortiGate 98D-POE

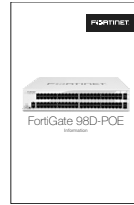
## Information



# Box Includes



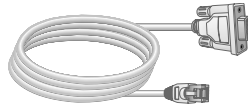
FortiGate 98D-POE



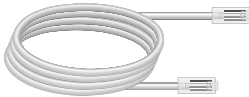
Information Supplement



Power Cable



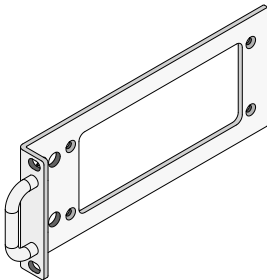
Console Cable



Ethernet Cable



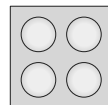
USB Cable



2 Rack-Mount Brackets



8 Bracket Screws



4 Rubber Feet



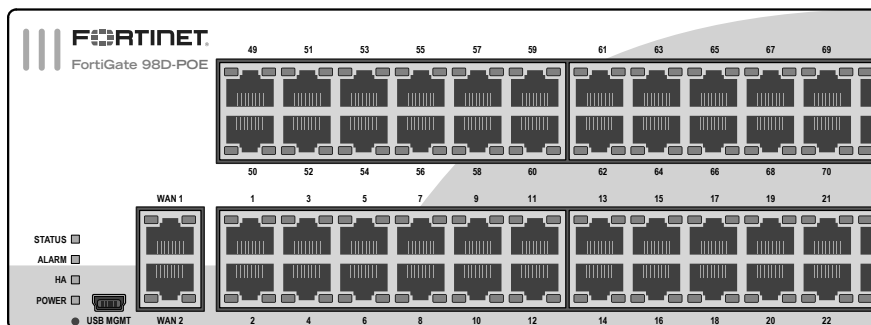
### WAN Ports (RJ-45)

Gigabit Ethernet ports for Internet connections



### Ethernet Ports 49 to 96 (RJ-45)

Gigabit Ethernet ports for local network connections



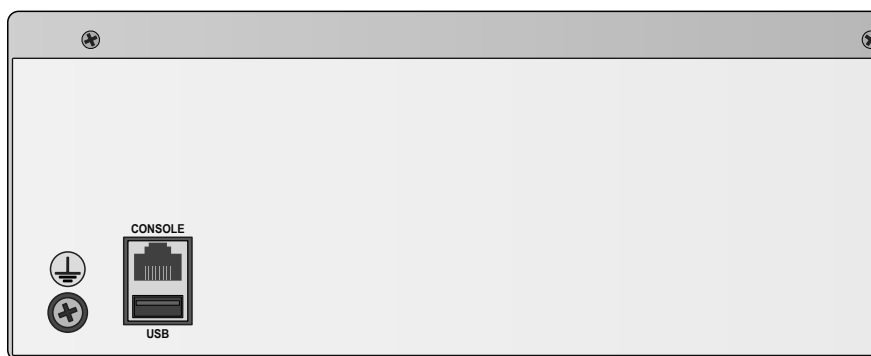
### USB MGMT (USB mini-B)

USB client port



### Ethernet Ports 1 to 24 (RJ-45)

Gigabit Ethernet ports for local network connections



### Console (RJ-45)

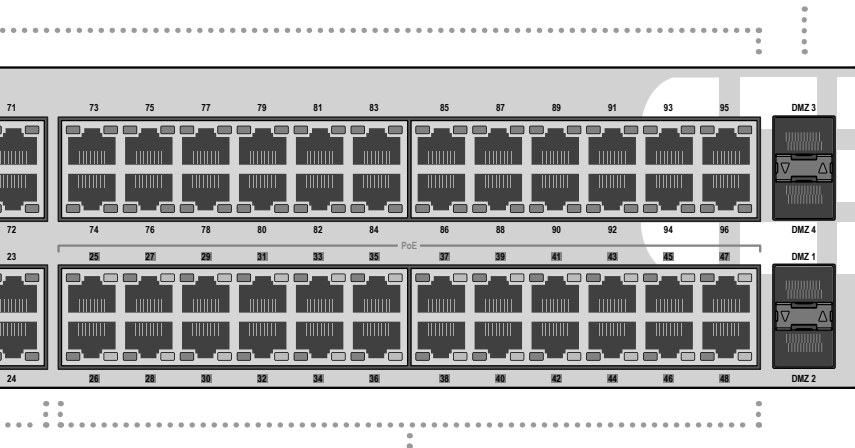
Optional connection to the management computer  
Provides access to the CLI

### USB (USB A)

USB server port

### DMZ Ports 1 to 4 (SFP)

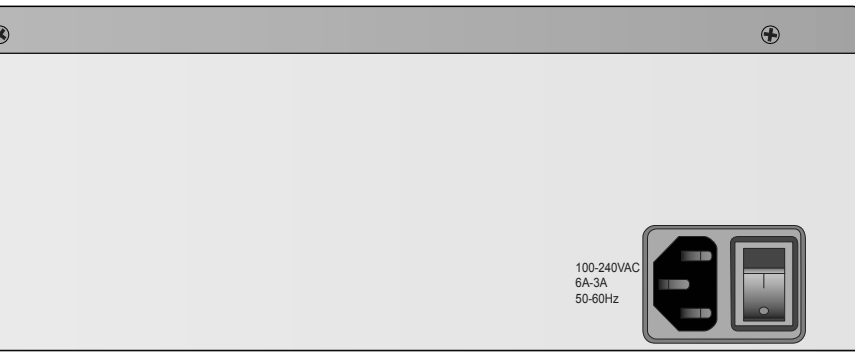
Optional 1Gbps SFP port connections to DMZ network or devices.



### Ethernet Ports 25 to 48 (RJ-45)



Fast Ethernet ports with Power over Ethernet (PoE) providing up to a maximum of 200W for all ports.



### Power

100-240V AC, 6-3A, 50-60Hz

## Logo

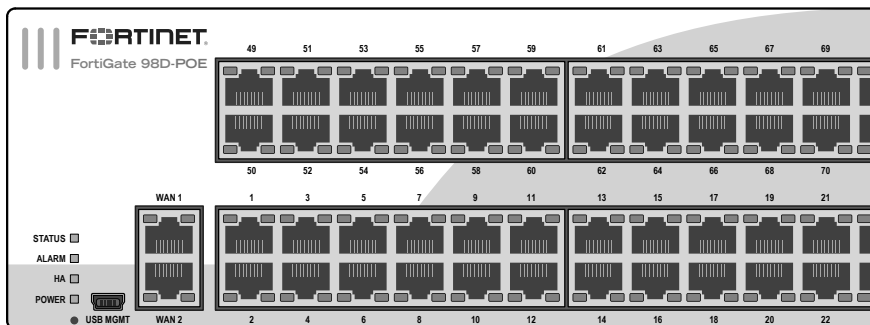
- Green: The unit is on
- Off: The unit is off

## Ethernet Ports Link/Activity

- Green: Connected
- ◉ Flashing Green: Transmitting & receiving data
- Off: No link established

## Ethernet Ports Speed

- Green: Connected at 1Gbps
- Amber: Connected at 100Mbps
- Off: Connected at 10Mbps or not in use



## Status

- Green: Normal
- ◉ Flashing Green: Booting up
- Red: The unit has a major alarm

## Alarm

- Red: The unit has a major alarm
- Amber: The unit has a minor alarm
- Off: The unit is operating normally

## HA

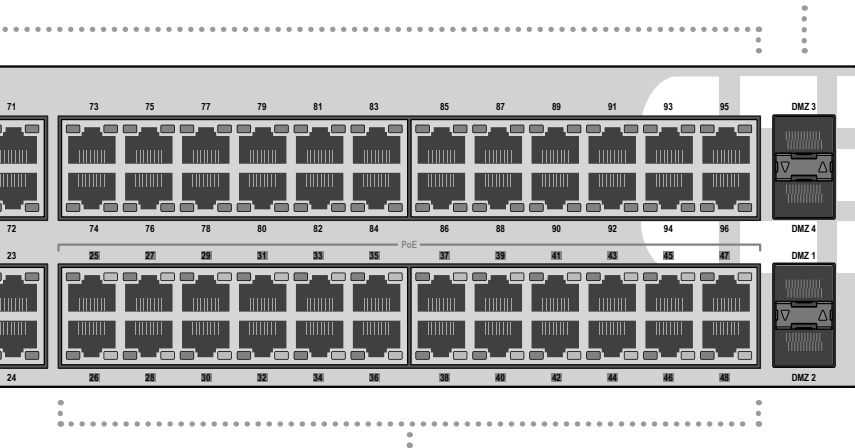
- Green: Operating in an HA cluster
- Red: HA failure
- Off: Not operating in an HA cluster

## Power

- Green: The unit is on
- Off: The unit is off

### DMZ Ports

- Green: Connected
- ☀ Flashing Green: Transmitting & receiving data
- Off: No link established



### PoE Ports

- Green: Connected and powered
- Red: Connected but not powered
- Off: No PoE device connected

# Rack Installation

The FortiGate unit can be mounted in any standard 19 inch rack unit with the provided rack-mount brackets and screws.

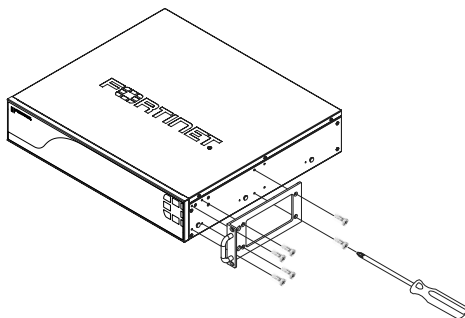
**Caution:** Electrostatic discharge (ESD) can damage your Fortinet equipment.

To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

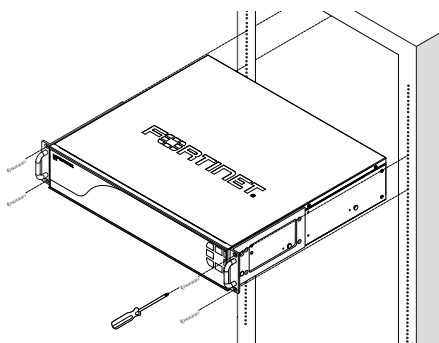
Do not place heavy objects on the unit.

## To install the FortiGate unit into a rack

1. Attach the provided rack-mount brackets to the sides of the unit using the provided screws.
2. Position the FortiGate unit in the rack. Ensure there is enough room around the unit to allow for sufficient air flow.
3. Line up the rack-mount bracket holes to the holes on the rack and ensure that the FortiGate unit is level.



4. Finger tighten four rack-mount screws to attach the unit to the rack.
5. Verify that the spacing around the FortiGate unit conforms to requirements and that the unit is level, then tighten the rack-mount screws with an appropriate screwdriver.



6. Plug the provided power cable into the rear of the unit, 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).



# Desktop Installation

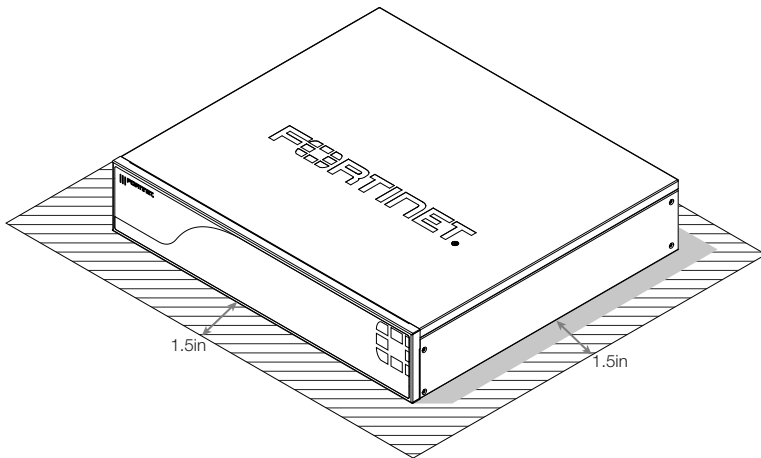
The FortiGate unit can be placed on any flat surface with the provided rubber feet.

**Caution:** Electrostatic discharge (ESD) can damage your Fortinet equipment.

Do not place heavy objects on the unit.

## To install the unit on a flat surface

1. Ensure that the surface onto which the FortiGate unit 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 FortiGate unit.
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiGate unit conforms to requirements and that the unit is level.



5. Plug the provided power cable into the rear of the unit, 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).

## Cautions and Warnings

### Environmental Specifications

**Operating Temperature** – If this device is installed in a closed or multi-unit rack assembly, the rack's ambient temperature may be greater than the room's ambient temperature. Make sure the rack environment is compatible with the manufacturer's maximum rated ambient temperature ( $T_{ra}$ ).

**Température ambiante élevée** – Si cet appareil est installé dans un cabinet fermé, la température ambiante du cabinet peut être supérieure à la température ambiante de la pièce. Assurez-vous que l'environnement dans le cabinet est compatible avec la température ambiante maximale du fabricant ( $T_{ra}$ ).

**Air flow** – For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised. For free-standing installation, make sure that the appliance has at least 2 inches (5 cm) of clearance on each side to allow for adequate air flow and cooling.

**Ventilation** – Pour une installation dans un cabinet, assurez-vous que la ventilation nécessaire au fonctionnement de l'équipement n'est pas compromise. Pour une installation autonome, assurez-vous que l'appareil dispose d'au moins 2 pouces (5 cm) de dégagement de chaque côté pour permettre l'écoulement de l'air et un refroidissement adéquat.

**Circuit overloading** – To avoid overloading, use the ratings on the label. Consider the equipment's connection to the supply circuit and the effect that circuit overloading might have on current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern. For redundant power sources, connect each to an IEC/UL Listed power source whose output rating is greater than or equal to the equipment.

**Surtenstion** – Pour éviter de surcharger le circuit d'alimentation, référez-vous aux notes sur l'étiquette de l'équipement. Envisagez l'effet que la surtension du circuit pourrait avoir sur la protection de surtension et le câblage d'alimentation. Considération appropriée du marquage de la plaque signalétique doit être utilisée lorsqu'il est question de cette préoccupation. Pour les sources d'alimentation redondantes, connectez chacun à une source d'alimentation MIS CEI / UL dont la cote de rendement est supérieur ou égal à l'équipement.

**Reliable earthing** – Make sure all rack-mounted equipment is grounded. This includes supply connections (e.g., power strips), not only direct connections to the branch circuit.

**Mise à la terre** – Assurez-vous que tout l'équipement est mis à la terre. Ceci comprend les connexions d'alimentation (par exemple, les barres d'alimentation) en plus des connexions directes au circuit de dérivation.

**Interference** – If possible, use Shielded Twisted Pair (STP) Ethernet cables instead of Unshielded Twisted Pair (UTP).

**Interférence** – Si possible, utilisez des câbles Ethernet de paire torsadée blindée (STP) plutôt que de paire torsadée non blindée (UTP).

**Mechanical loading** – To avoid personal injury or damage to the appliance, Fortinet recommends that 2 or more people together install the appliance into the rack. Balance the equipment to avoid uneven mechanical loading and tipping. Do not place heavy objects on the appliance.

**Installation** – Pour éviter des blessures ou des dommages à l'appareil, Fortinet recommande que deux personnes ou plus installent ensemble cet équipement dans un cabinet. L'installation du matériel à l'intérieur de la baie doit être effectuée de façon à éviter toute situation dangereuse liée à une installation non conforme. Ne placez pas d'objets lourds sur l'appareil, celui-ci n'étant pas conçu pour soutenir un poids additionnel.

*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 vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales en vigueur. **IMPORTANT:** Suisse: 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**

**Power over Ethernet (PoE)** – Do not connect this device to PoE networks with routing to the outside plant. Use this equipment in a Network Environment 0 per IEC/UL 62101. Do not use PoE injectors that are not IEEE 802.3af compliant. They may damage your device. The unit is intended to be powered by PoE source of a LPS UL Listed or Class 2 IEC certified power adaptor.

**Alimentation par Ethernet** – Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC/UL 62101. Ce matériel est uniquement connecté aux réseaux PoE sans installation externe de routage. Cet appareil est conforme aux normes IEEE 802.3af. Ne pas utiliser d'autres injecteurs d'alimentation non conformes sous peine d'endommager votre matériel. Le produit doit être alimenté par une source PoE d'une alimentation à puissance limitée (UL Listed) ou par une alimentation Class 2 certifiée par IEC.

**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.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

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. Cette séparation protège la borne de mise à la terre qui doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.

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.

Le présent 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 édicté 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.



Voluntary Control Council for Interference (VCCI) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:  
<https://www.fortinet.com/bsmi>

China

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Fortinet provides this limited warranty for its product only to the single end-user person or entity that originally purchased the Product from Fortinet or its authorized reseller or distributor and paid for such Product. The warranty is only valid for Products which are registered on Fortinet's Support Website: <https://support.fortinet.com>; or on the TalkSwitch support website: <http://global.talkswitch.com>; or such other website as provided by Fortinet. For the below software warranty to start, registration must take place within three hundred sixty-five (365) days from the date the Product was originally shipped from Fortinet's facilities or the warranty is null and void and will not be honored. For the hardware warranty, such warranty starts on the earlier of the date of Product registration on Fortinet's Support Website or ninety (90) days from the date that the Product was originally shipped from Fortinet's facilities. It is the Fortinet distributor's and reseller's responsibility to make clear to the end user the date the product was originally shipped from Fortinet, and it is the end user's responsibility to understand the original ship date from the party from which the end user purchased the product. All warranty claims must be submitted in writing to Fortinet before the expiration of the warranty term or such claims are waived in full, i.e. ninety (90) days from the earlier of registration or the automatically started term for hardware and spare parts claims and three hundred sixty-five (365) days from registration within three hundred sixty-five (365) days from shipment for software claims. Fortinet provides no warranty for any beta, donation or evaluation Products, for any spare parts not purchased directly from Fortinet by the end-user, for any accessories, or for any stand-alone software.

Fortinet warrants that the hardware portion of the Products, including spare parts unless noted otherwise ("Hardware") will be free from material defects in workmanship as compared to the functional specifications for the period set forth as follows and applicable to the Product type ("Hardware Warranty Period"): a three hundred sixty-five (365) day limited warranty for the Hardware including spare parts, power supplies, and accessories provided, solely with respect to FortiAP indoor Wi-Fi access point Hardware appliance products and FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series (for both including spare parts, power supplies, and accessories), the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date), and, for spare parts, power supplies, and accessories, solely a ninety (90) days limited warranty. Fortinet's sole obligation shall be to repair or replace the defective Hardware at no charge to the original owner. This obligation is exclusive of transport fees, labor or installation costs, and any other cost which are not directly associated to the Product. Such repair or replacement will be rendered by Fortinet at an authorized Fortinet service facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet may, in its discretion, replace the defective Hardware (or any part thereof) with any reconditioned Product that Fortinet reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. The Hardware Warranty Period for the repaired or replacement Hardware shall be for the greater of the remaining Hardware Warranty Period or ninety days from the delivery of the repaired or replacement Hardware. If Fortinet determines in its reasonable discretion that a material defect is incapable of correction or that it is not practical to repair or replace defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by Fortinet upon return to Fortinet of the defective Hardware. All Hardware (or part thereof) that is replaced by Fortinet, or for which the purchase price is refunded, shall become the property of Fortinet upon replacement or refund.

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