QuickStart Guide

FortiNAC-CA-500F, FortiNAC-M-550F, FortiNAC-CA-600F, FortiNAC-CA-700F

FNC-CA-500F, FNC-M-550F,
FNC-CA-600F, FNC-CA-700F

Before you begin

Register your device to access FortiGuard updates, cloud management, firmware upgrades, technical support and warranty coverage.

https://support.fortinet.com

January 24, 2024

This guide covers models: FNC-CA-500F, FNC-M-550F, FNC-CA-600F, FNC-CA-700F

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The Essentials

Default Logins

Username: **admin**
Password: **_____(leave blank)**

Fortinet Documents Library

For a detailed Administration Guide, up-to-date Hardware documentation and Reference Manuals, visit https://docs.fortinet.com/

Customer Service

For contracts, licensing, product registration and account management, contact FortiCare Support at https://www.fortinet.com/support/contact

Technical Support

To access our Resource Center, Professional Services and Technical Support Services, visit https://www.fortinet.com/support

Thank you for choosing Fortinet

Package Contents

FNC-CA-500F


FortiNAC Device


QuickStart Guide

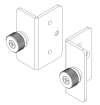

2x AC Power Cables


1x Ethernet Cable


1x Console Cable
(RJ45 to USB)


4x Rubber Feet


2x Slide Rails
2x M4 Rail Screws


2x Slide Rail Handles


2x M3 Slide Rail
Handle Screws

Package Contents

FNC-M-550F, FNC-CA-600F, FNC-CA-700F



FortiNAC Device



QuickStart Guide



2x AC Power Cables



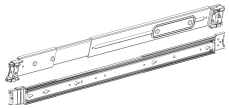
1x Console Cable
(RJ45 to USB)



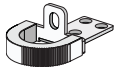
1x Ethernet Cable



5x Rubber Feet



2x Slide Rails
10x M4 Rail Screws
(2x M4 Screws are extra)



2x Slide Rail Handles

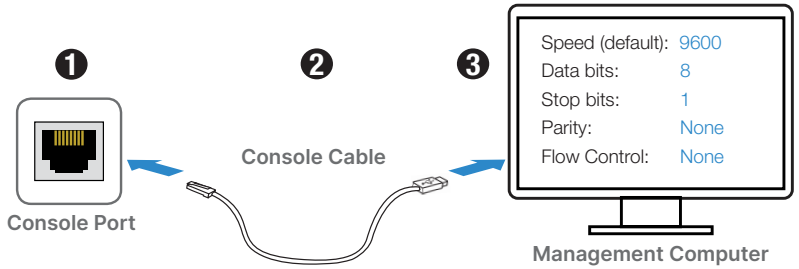


2x M5 Handle Screws
6x M4 Handle Screws

Initial Setup

CLI

A Terminal Emulator application is required to capture the console buffer of the boot loader sequence.



Note: For a detailed CLI guide, visit https//:docs.fortinet.com

Rack Installation
(FNC-CA-500F)

The supplied equipment is designed for standard 19inch racks. The rails provided are specially designed for this model.

Rack Stability

Ensure the rack is stable before installing the slide rails and appliance.

- Check that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on the jacks
- For single rack installation, stabilizers should be attached to the rack; for multiple rack installations, the racks should be coupled together

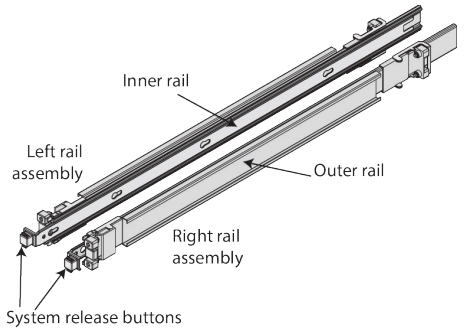
Appliance Installation

- To avoid personal injury or equipment damage, use a lifting device
- Do not pick up the appliance by the front handles
- Each inner rail has a system lock out tab to prevent the appliance from sliding out, ensure that it is locked when installing the appliance
- Prevent Electrostatic discharge (ESD) damage by wearing antistatic devices
- Do not place heavy objects on the appliance

What You Will Need

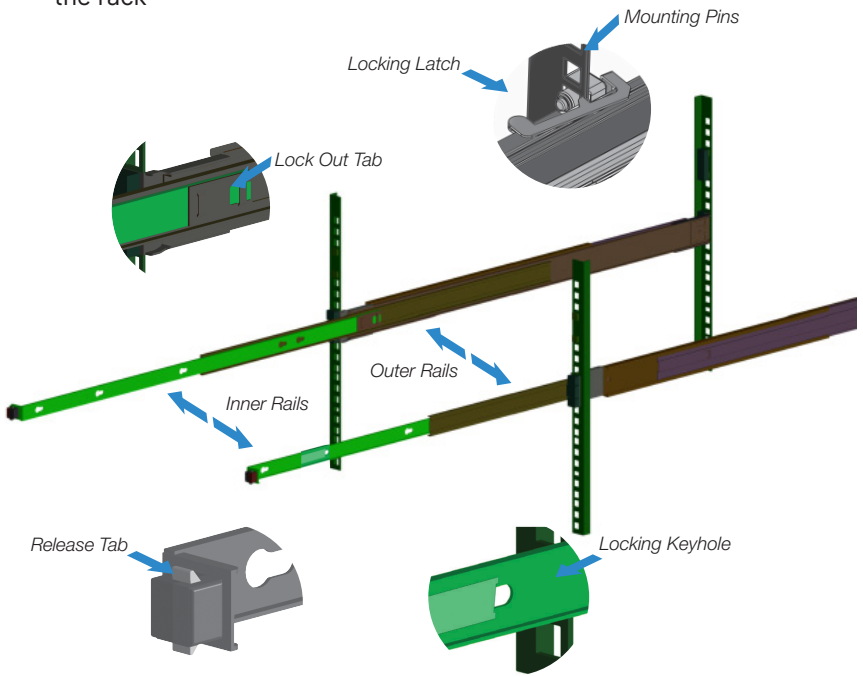
- Philips screwdriver, level & tape measure
- Rack-provided cage nuts and screws
- A lifting device or additional support
- ESD antistatic gear

Rail Assembly



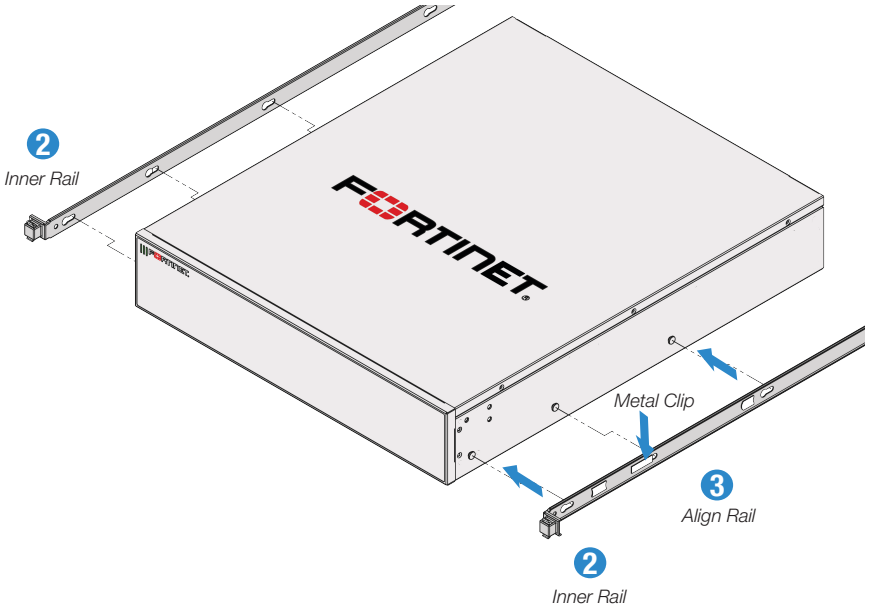
The rail kit includes a left and a right rail assembly

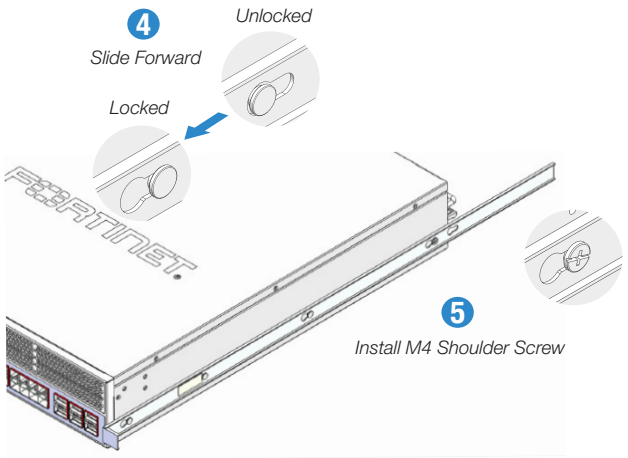
- Each rail assembly includes an inner rail, a middle rail, and an outer rail
- The inner rail has locking keyholes used to secure the rail to the appliance
- The inner rail rear end has a lock out tab which slides into the middle rail
- The middle rail is in the outer rail and used to guide the inner rail into the outer rail
- The outer rail has front and rear mounting pins that push into to the rack holes
- The outer rail also has front and rear locking latches to secure the rail to the rack



Attach the Inner Rails to the Appliance

1. Detach the inner rail from the rail assembly by pressing the lock out tab
2. Place an inner rail against a side of the appliance
3. Align the inner rail keyholes with the appliance pins
4. Slide the rail towards the front of the appliance until the metal clip locks into place
5. For inner rails with 5 keyholes and a chassis with 3 pins and a thread hole, use the provided M4 shoulder screw to secure the rail to the appliance
6. Repeat steps 1 to 5 for the remaining inner rail





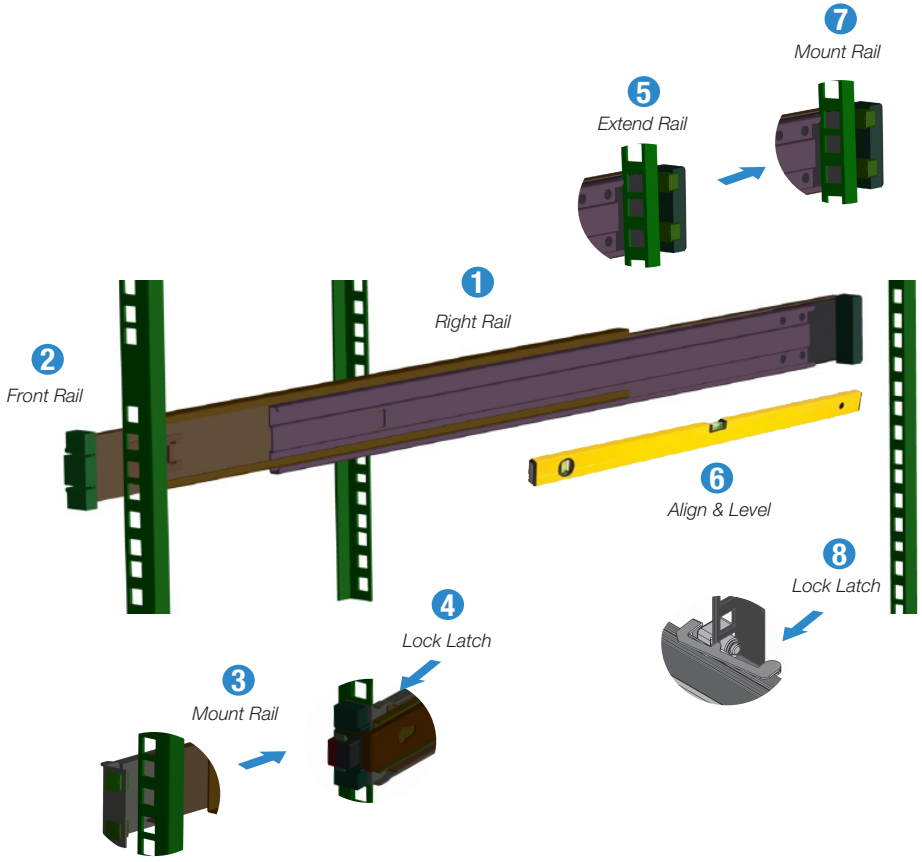
Attach the Outer Rails to the Rack

Front Outer Rail

1. Place an outer rail against a side of the rack
2. Align the front outer rail with the front of the rack
3. Push the front outer rail mounting pins into the rack post holes
4. Lock the locking latch to safely secure the front outer rail to the post

Rear Outer Rail

5. Extend the rear outer rail just past the rack post
6. Level the rail and align the mounting pins
7. Push the rear mounting pins into the rack post holes
8. Lock the locking latch to safely secure the rear outer rail to the post
9. Repeat steps 1 to 8 for the remaining outer rail



Install the Appliance

Safety Precautions

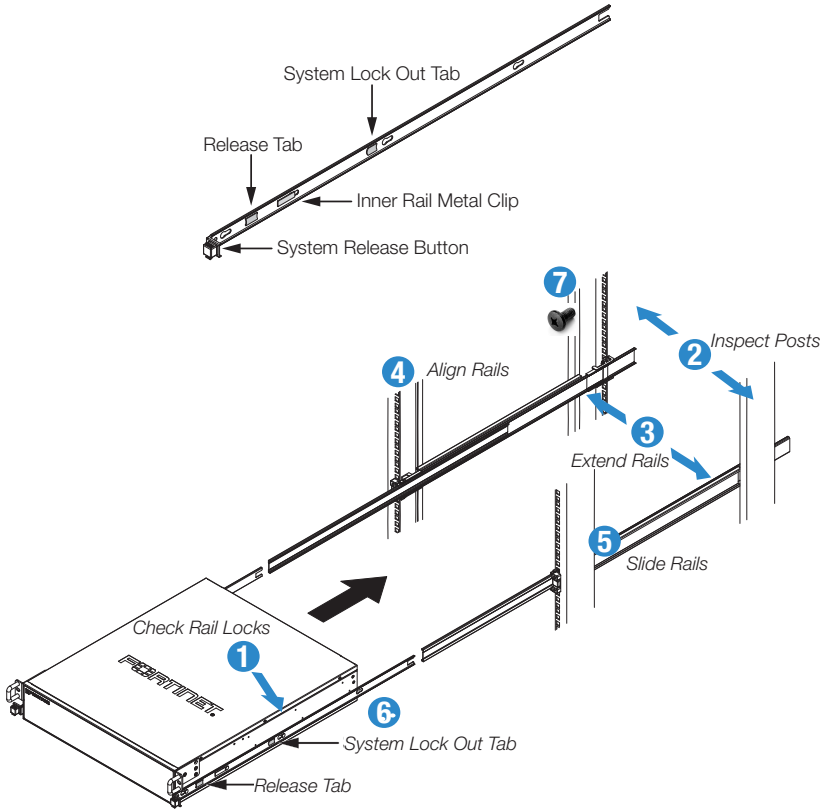
1. Check that the inner rails are secured to the appliance
2. Inspect that the rack posts and outer rails are secured and level

Rail Installation

3. Slide the middle outer rails forward until they fully extend and lock into place
4. Using a lifting device, lift the appliance and align the inner rails with the middle rails
5. Slide the appliance and inner rails into the middle rails until there is a stop

System Lock

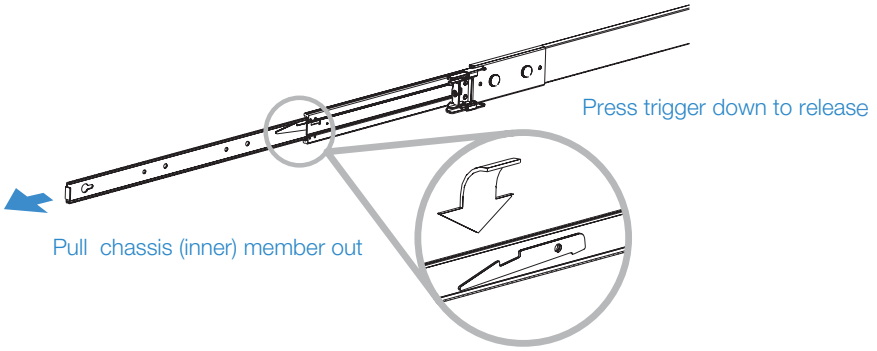
6. Apply even pressure and slide the release tabs outward while sliding the appliance all the way into the rack until the system release tabs click and lock into position
7. Use four rack screws (not provided) to secure the appliance to the rack



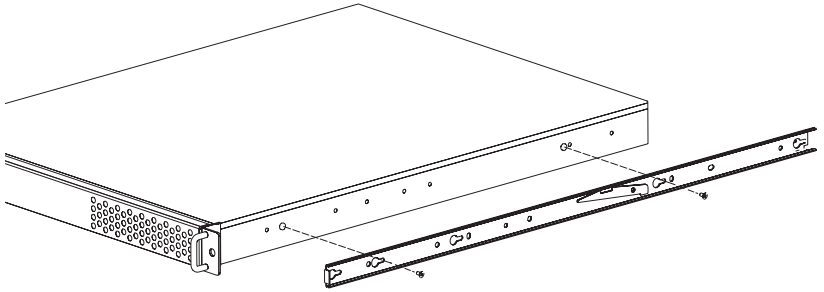
Rack Installation
(FNC-M-550F, FNC-CA-600F, FNC-CA-700F)

Assemble the slide rails to mount in a standard 19 inch rack.

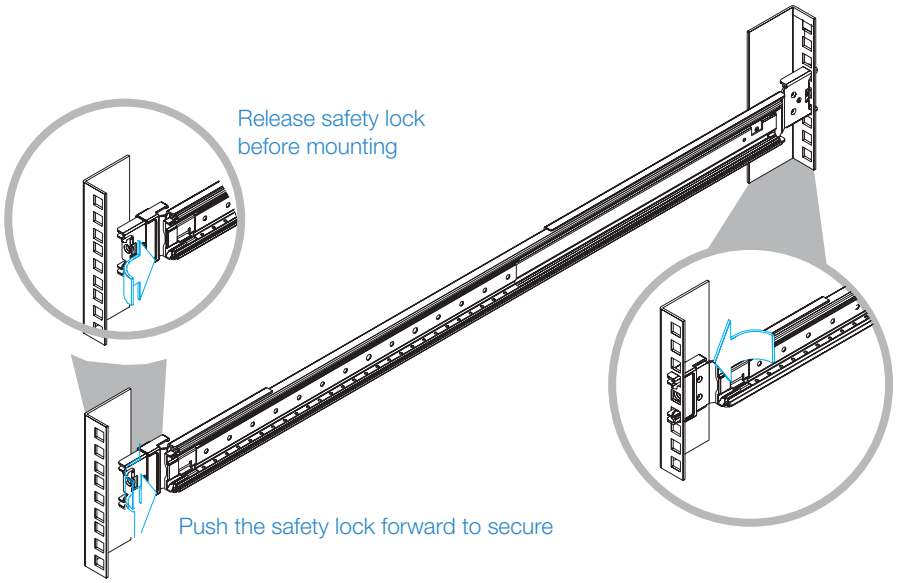
1. Pull out the slide
2. Press down on the trigger
3. Pull out the inner chassis rail

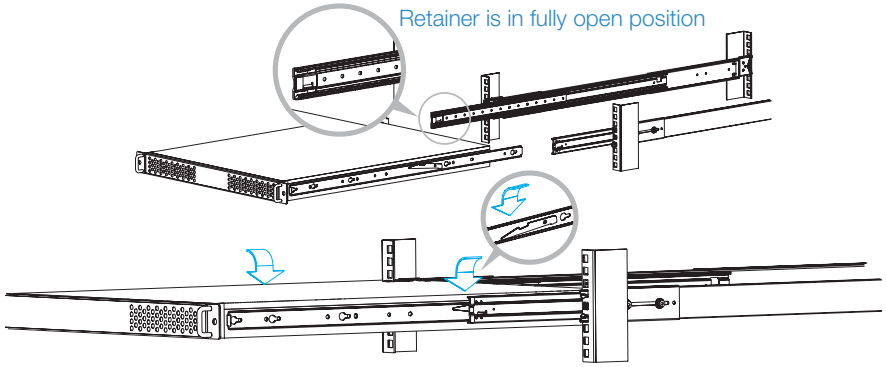


4. Fasten the rail to the device with the provided 4x M4 screws
5. Place the safety lock in the unlocked position
6. Insert the stag into the upper and lower square holes on the EIA rail
7. Push the safety lock forward to secure the bracket

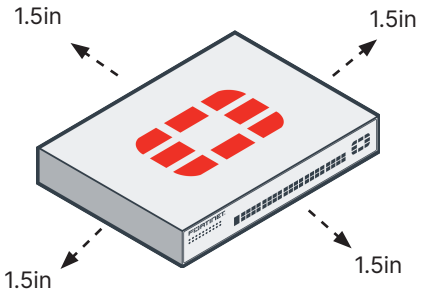


8. Ensure the ball retainer is fully opened
9. Insert the inner rail into the cabinet
10. Press the trigger down and push the chassis into the cabinet





Desktop Mount



Note: Place the device on a flat, clean and stable surface.

Front FNC-CA-500F



1 **STATUS**

- **Red**: Critical error detected
- **Off**: No failure detected

PWR

- **Blue**: Device powered on
- **Off**: Device powered off

2 **RESET** Press and hold for 10 secs to reset system

3 **CONSOLE (RJ45)** CLI management

4 **USB Ports** Not in use

5 **Ports 1 & 2 (RJ45)** By default, Port 1 set as MGMT 192.168.1.99

LINK/ACT(Left LED)

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

SPEED (Right LED)

- **Green**: 1 Gbps
- **Amber**: 100 Mbps
- **Off**: No link established

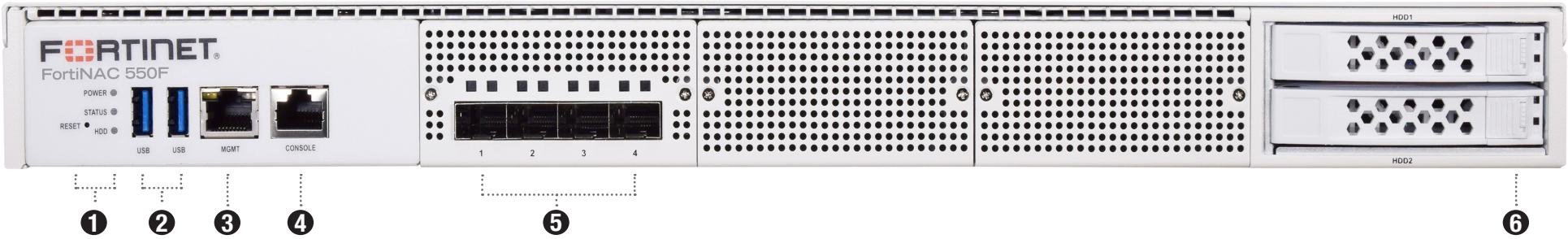
Ports 3 & 4 (RJ45) For future use

6 **Storage (1.92TB Total)** 2× 960GB, SSD

Activity LED

- **Flashing Green**: SSD in use
- **Off**: SSD not in use

Front FNC-M-550F



1 RESET
Press twice within 1 sec to reset system

POWER
- **Green**: Device powered on
- **Off**: Device powered off

STATUS
- **Red**: Critical error detected
- **Off**: No failure detected

HDD *(SSD Storage)*
- **Flashing Amber**: SSD in use
- **Off**: SSD not in use

2 USB Ports (x2) Not in use

3 MGMT (RJ45) For future use

4 CONSOLE (RJ45) CLI management

5 Ports 1 & 2 (SFP+) By default, Port 1 set as MGMT 192.168.1.99

LINK/ACT(Left LED)
- **Green**: Link established
- **Flashing Green**: Data activity
- **Off**: No link established

SPEED (Right LED)
- **Green**: 10 Gbps
- **Off**: 1 Gbps or no link established

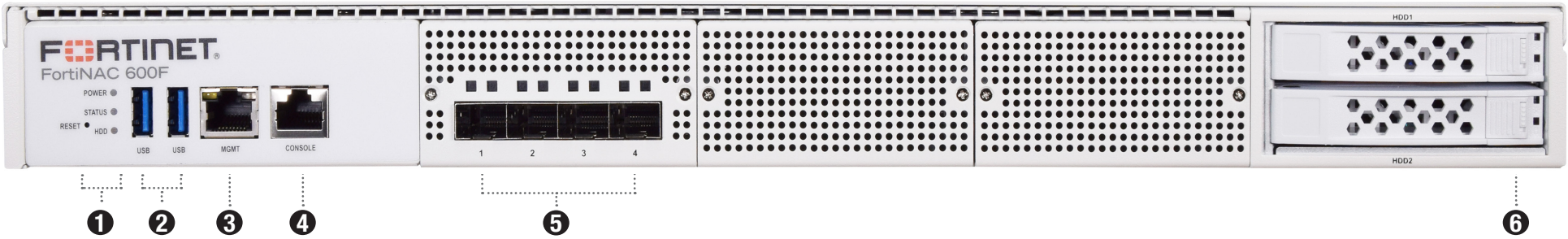
Ports 3 & 4 (SFP+) For future use

6 Storage (1.92TB Total) 2× 960GB, SSD

Power LED (Top LED)
- **Green**: SSD powered on
- **Off**: SSD powered off

Activity LED (Bottom LED)
- **Flashing Amber**: SSD in use
- **Off**: SSD not in use

Front FNC-CA-600F



1 RESET
Press twice within 1 sec to reset system

POWER
- **Green**: Device powered on
- **Off**: Device powered off

STATUS
- **Red**: Critical error detected
- **Off**: No failure detected

HDD *(SSD Storage)*
- **Flashing Amber**: SSD in use
- **Off**: SSD not in use

2 USB Ports (x2) Not in use

3 MGMT (RJ45) For future use

4 CONSOLE (RJ45) CLI management

5 Ports 1 & 2 (SFP+) By default, Port 1 set as MGMT 192.168.1.99

LINK/ACT(Left LED)
- **Green**: Link established
- **Flashing Green**: Data activity
- **Off**: No link established

SPEED (Right LED)
- **Green**: 10 Gbps
- **Off**: 1 Gbps or no link established

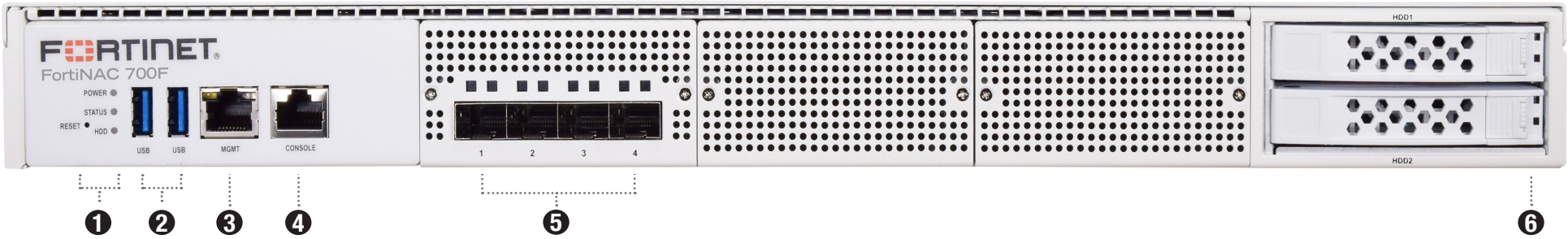
Ports 3 & 4 (SFP+) For future use

6 Storage (1.92TB Total) 2× 960GB, SSD

Power LED (Top LED)
- **Green**: SSD powered on
- **Off**: SSD powered off

Activity LED (Bottom LED)
- **Flashing Amber**: SSD in use
- **Off**: SSD not in use

Front FNC-CA-700F



1 RESET
Press twice within 1 sec to reset system

POWER
- **Green**: Device powered on
- **Off**: Device powered off

STATUS
- **Red**: Critical error detected
- **Off**: No failure detected

HDD *(SSD Storage)*
- **Flashing Amber**: SSD in use
- **Off**: SSD not in use

2 USB Ports (x2) Not in use

3 MGMT (RJ45) For future use

4 CONSOLE (RJ45) CLI management

5 Ports 1 & 2 (SFP+) By default, Port 1 set as MGMT 192.168.1.99

LINK/ACT(Left LED)
- **Green**: Link established
- **Flashing Green**: Data activity
- **Off**: No link established

SPEED (Right LED)
- **Green**: 10 Gbps
- **Off**: 1 Gbps or no link established

Ports 3 & 4 (SFP+) For future use

6 Storage (1.92TB Total) 2× 960GB, SSD

Power LED (Top LED)
- **Green**: SSD powered on
- **Off**: SSD powered off

Activity LED (Bottom LED)
- **Flashing Amber**: SSD in use
- **Off**: SSD not in use

Rear FNC-CA-500F



1. **Power** switch on/off

2. **Alarm Reset** Disable power supply warning tone

3. **Power Supplies (x2)**
   100-240VAC, 50/60Hz, 4A Max, hot-swappable
   - **Green:** PSU on
   - **Flashing Green:** PSU on standby
   - **Flashing Amber:** Minor error detected; primary PSU on
   - **Amber:** Critical failure detected; secondary PSU on
   - **Off:** AC power not detected

Rear
FNC-M-550F, FNC-CA-600F/700F



1 **Power Supplies (x2)**

100-127VAC 7.5A Max, 200-240VAC 3.9A Max, 47-63Hz, hot-swappable

- **Green:** PSU on
- **Flashing Green:** PSU on standby
- **Flashing Amber:** Minor error detected; primary PSU on
- **Amber:** Critical failure detected; secondary PSU on
- **Off:** AC power not detected

2 **Power** switch on/off

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.

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:
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 an explosion.
Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.
If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

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

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

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.

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.

Warning: Stability hazard.
Aviso: Perigo de estabilidade.

The rack may tip over causing serious personal injury.
O rack pode tombar causando ferimentos graves.

Before extending the rack to the installation position, read the installation instructions.
Antes de estender o rack para a posição de instalação, leia as instruções de instalação.

Do not put any load on the slide-rail mounted equipment in the installation position.
Não coloque nenhuma carga no equipamento montado em trilho deslizante na posição de instalação.

Do not put any load on the slide-rail mounted equipment in the installation position.
Não coloque nenhuma carga no equipamento montado em trilho deslizante na posição de instalação.

Do not leave the slide-rail mounted equipment in the installation position.
Não deixe o equipamento montado em trilho deslizante na posição de instalação.

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

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 Regula¬tions 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.

CE

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。
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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。
勿將任何液體攜入設備中，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過電的設備，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

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China

警告：在居住环境中，运行此设备可能会造成无线电干扰。



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