



FortiAnalyzer 400E

Information

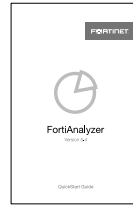
Box Includes



FortiAnalyzer 400E



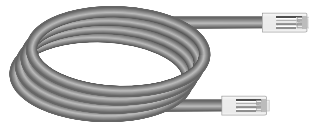
Information Supplement



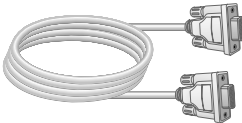
FortiAnalyzer QuickStart Guide



Power Cable



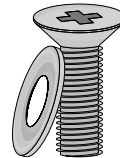
Ethernet Cable



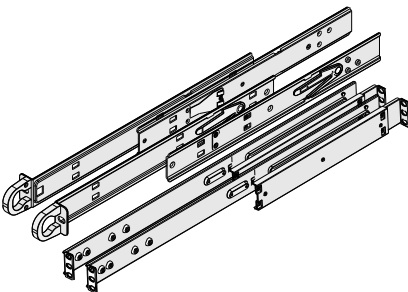
Console Cable



(4) M4 6L Inner Rail Screws



(8) M5 12L Flat Head Screws & Washers



(2) Rail-Mount Brackets



(22) M4 4L Truss Head Screws
(Usage is Optional)

Installation

The FortiAnalyzer unit can be mounted in any standard 19 inch rack unit with the provided mounting hardware.

Please also read “Cautions and Warnings” on page 14 prior to installing your device.

Caution: The rack must be stabilized before sliding the unit out for servicing. Failure to stabilize may cause the rack to tip over.

Electrostatic discharge (ESD) can damage your Fortinet equipment.

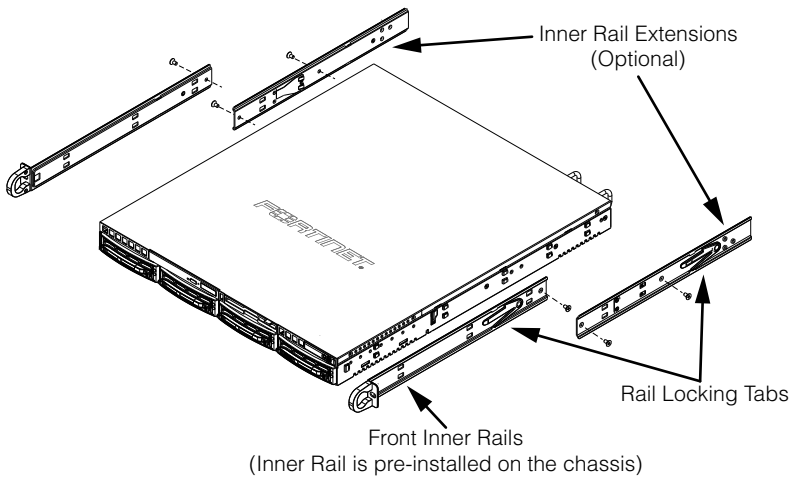
To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

Do not place heavy objects on the unit.

Rack Precautions

- Ensure 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.
- Ensure the rack is stable before extending a component from the rack.
- Only extend one component at a time; extending two or more simultaneously may cause the rack to become unstable.

Rack Rail Identification

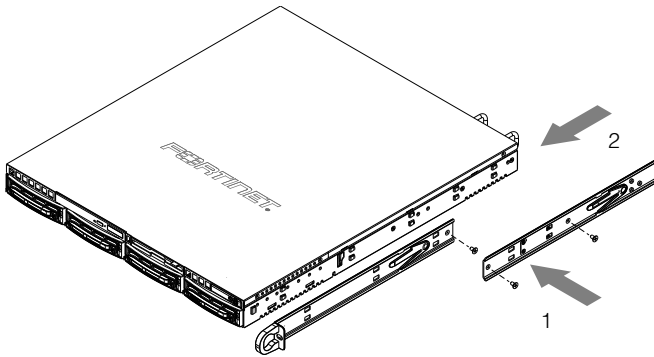


The rail mount kit includes two rail assemblies. Each assembly consists of two sections:

- A fixed inner rail that secures directly to the unit
- A fixed outer rack that secures directly to the rack

Both rail assemblies have locking tabs. The tabs lock the unit into place when installed into the rack and when fully extended from the rack. This prevents the device from sliding fully out of the rack when the device is being worked on.

Inner Rail Extensions

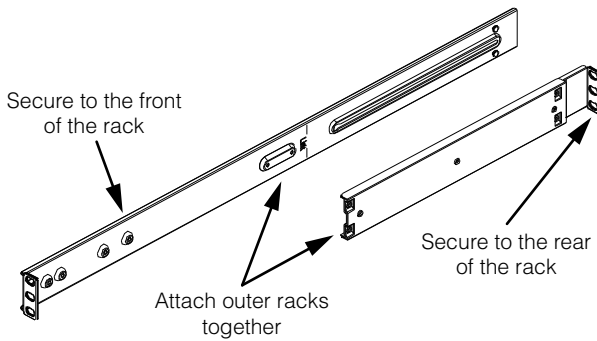


Using the inner rail extensions is optional. Use the inner rail extensions to stabilize the unit within the rack.

1. Ensure you have correctly identified the left and right rail extensions.
2. Place the inner rail extension on the side of the unit and align the hooks on the unit with the holes on the rail extension. Make sure the inner rail extension faces out.
3. Slide the extension toward the front of the unit.
4. Secure the rail extension to the unit with the provided M4 6L inner rail screws.
5. Repeat steps 1-4 for the other inner rail extension.

Caution: Do not pick up the server by the front handles. They are designed to only pull the unit from the rack.

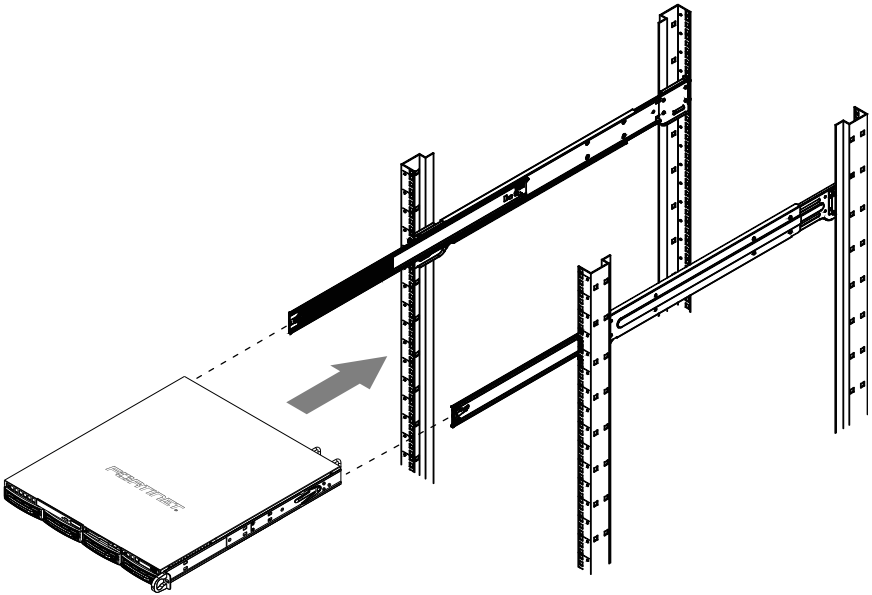
Outer Rails



The outer rails attach to the rack and hold the unit in place.

1. Attach the short bracket to the outside of the long bracket by aligning the pins with the slides. Both brackets must face the same direction.
2. Adjust the short and long brackets to the appropriate length so that they fit securely into the rack.
3. Secure the long bracket to the front side of the outer rail with the provided washers and M5 12L outer rail screws.
4. Secure the short bracket to the back side of the outer rail with the provided washers and M5 12L outer rail screws.
5. Repeat steps 1-4 for the other rail.

Rack Installation



1. Ensure that there is enough room around the unit to allow for sufficient air flow.
2. Ensure that the inner rails are properly connected to the device, and the that the outer rails are securely attached to the rack.
3. Align the inner rails with the rack rails and slide the device onto the rails. Ensure that even pressure is applied to both sides of the device while doing this.
4. When the unit has been completely pushed into the rack, the locking tabs will click into the locked position.
5. For additional security, insert and tighten the thumbscrews that hold the front of the unit to the rack.

After the device is installed in the rack and the hard disk drives are installed, plug the supplied power cables into the rear of the unit and then into grounded electrical outlets or separate power sources, such as uninterruptible power supplies (UPS) or power distribution units (PDU).

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Information

- Green: Overheat condition
- ☀ Flashing Green: Fan failure
- Off: Normal operation

Ethernet Ports Activity

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

Hard Drive Activity

- ☀ Flashing Amber: HDD in use
- Off: No HDD activity

Power

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



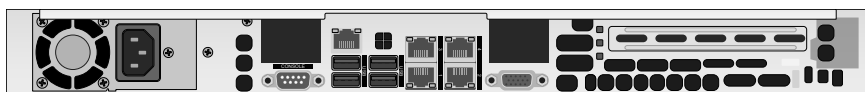
Hard Drive Activity

- ☀ Flashing Green: HDD in use
- Off: No HDD activity

HDD

- Red: Hard disk failure

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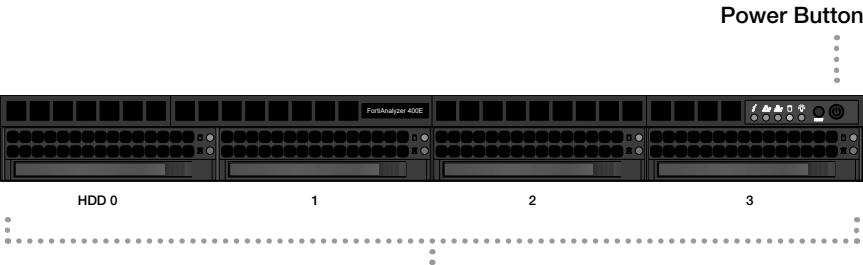
Ethernet Ports Speed

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

Ethernet Ports Link/Activity

- ⚙ Flashing Amber: Transmitting & receiving data
- Off: No link established

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HDD 0 to 3
Four 3TB hard disk drives

FortiAnalyzer 400E

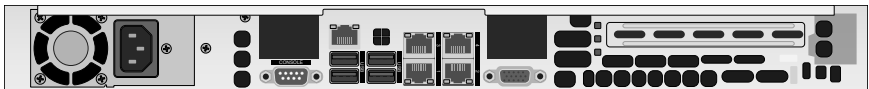
Console Port (DB-9)

Optional connection to the management computer
Provides access to the CLI

USB Ports (USB A)

USB 2.0 server ports

PCI Expansion Slot



Power

100-240V AC, 4.2-1.8A,
50-60Hz

VGA Port

Not in use

Ethernet Ports 1 - 4 (RJ-45)

Gigabit Ethernet network connections



IPMI Port (RJ-45)

Do not use

Changing the default password is strongly recommended
See <http://cookbook.fortinet.com/changing-ipmi-password>

USB Ports (USB A)

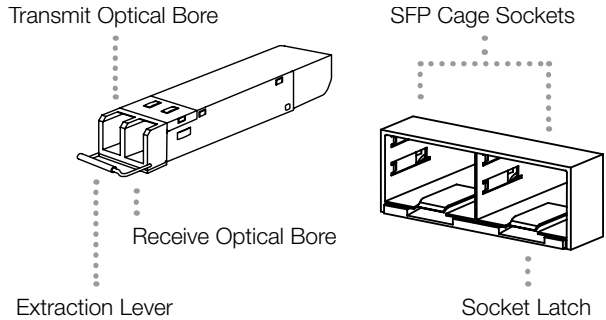
USB 3.0 server ports

SFP Transceivers

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

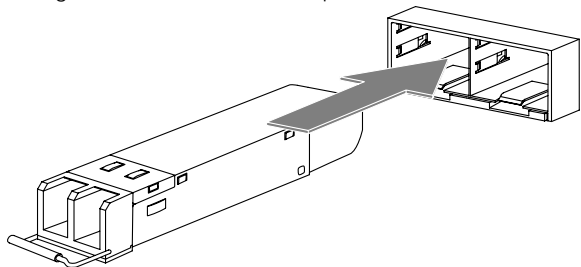
Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

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



To install the SFP transceivers

1. Ensure that you are properly grounded.
2. Remove the caps from the SFP cage sockets on the front panel of the unit.
3. Position the SFP 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: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.

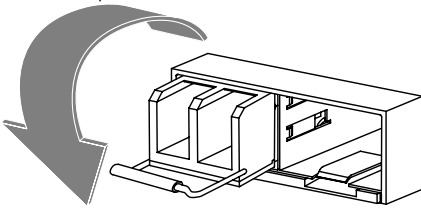


5. Press the transceiver firmly into the cage socket with your thumb.

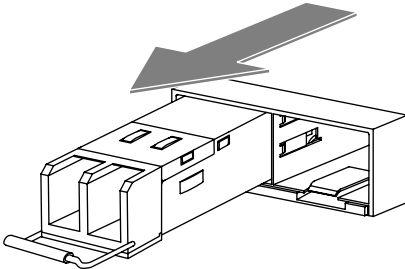
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever.
If the transceiver cannot be removed, it is installed and latched correctly.
If the transceiver can be removed, reinsert it and press harder with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

To remove the SFP 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 SFP cage socket and place the removed SFP transceiver into an antistatic bag.

Caution: Do not install or remove SFP 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: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0C to 40C

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

Regulatory Compliance

Federal Communication Commission (FCC) – USA

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



Product Safety Electrical Appliance & Material (PSE) – Japan

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Voluntary Control Council for Interference (VCCI) – Japan

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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。

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。

Korea Certification (KC) – Korea

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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