FortiADC 220F

QuickStart Guide

Product Registration

Thank you for purchasing a Fortinet FortiADC. To access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your Fortinet FortiADC:

Vous devez enregistrer le produir:

Debe registrar el producto:

登録のお願い:

请马上注册:

http://support.fortinet.com

April 20, 2021

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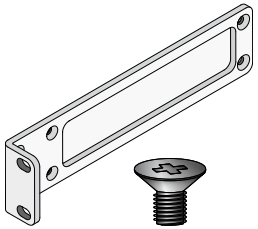
Contents - FAD 220F

FortiADC 220F

QuickStart Guide

1x Power Cable

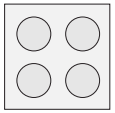
1x Console Cable
(USB to RJ45)



2x Rack Mount Ears,
8 Bracket Screws

1x Ethernet Cable

2x Grounding Screws



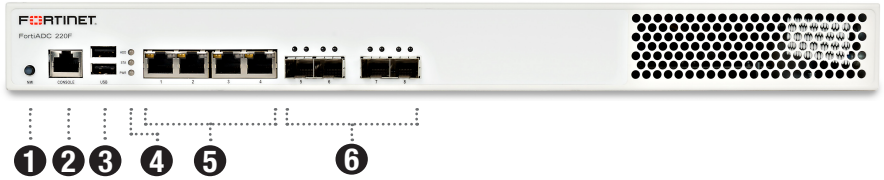
4x Rubber Feet

Optional SFP Transceiver Modules (not included)

FN-TRAN-SX, 1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots

FN-TRAN-LX, 1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots

Front Panel - FAD 220F



1. **NMI Button** reserved for software applications

2. **CONSOLE (RJ45)** port for serial port management

3. **USB (USB A x2)** USB 3.0 server port

4. **HDD** 120GB SSD
   - **Flashing Amber**: Data activity
   - **Off**: Normal operation

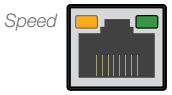
   STA System Status
   - **Red**: Systemf ailure
   - **Off**: Normal operation

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

5. **Ports 1 to 4 (RJ45)** GE network connections

   Speed
   - **Green**: Connected at 1000Mbps
   - **Amber**: Connected at 100Mbps
   - **Off**: Connected at 10Mbps or not in use

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

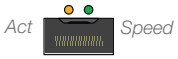


RJ45

6. **Ports 5 to 8 (SFP)** 1 Gbps SFP connections

   Act
   - **Flashing Amber**: Transmitting data
   - **Off**: No link established

   Speed
   - **Green**: Connected at 1 Gbps
   - **Off**: No link established

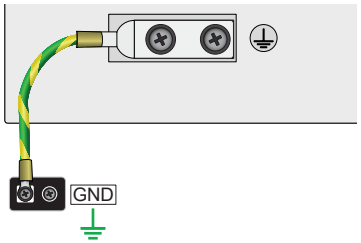


SFP

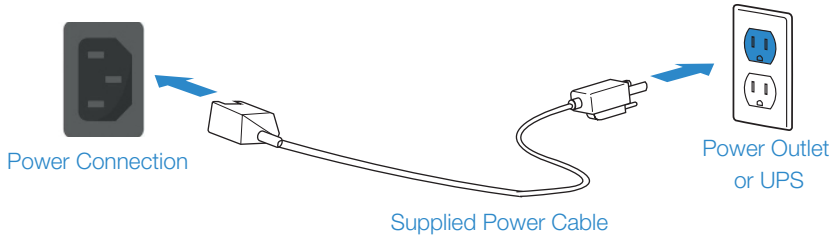
Rear Panel - FAD 220F

1 **Power** 100-240V AC, 6-3A, 50/60Hz

2 **Earth Ground** using the supplied grounding screws (wires and lug not provided)



Basic Connections



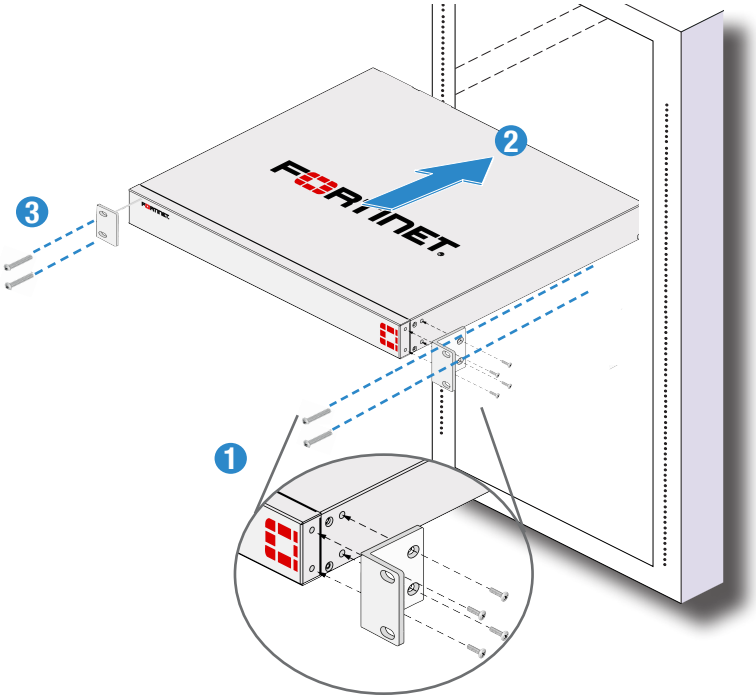
Plug in your device to a power outlet using the provided power cables.

Note: We recommend connecting your FortiADC to an uninterruptible power supply (UPS) in case of a power outage

Rack Installation

This device mounts in a standard 19 inch rack.

1. Attach the provided rack-mount brackets and screws
2. Position the device and slide into the rack
3. Fasten rack screws to secure the device

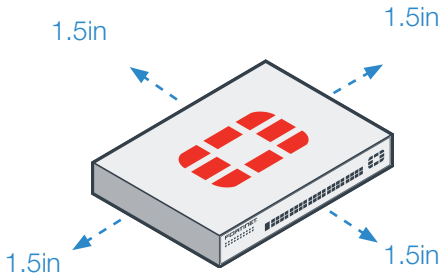


Caution: Ensure there is at least 1.5 inches of space above and below the device

Warning: For safety, it is recommended that two people install the device

Desktop Option

1. Place the unit on a flat, clean and stable surface
2. Ensure there is at least 1.5in of clearance for adequate airflow

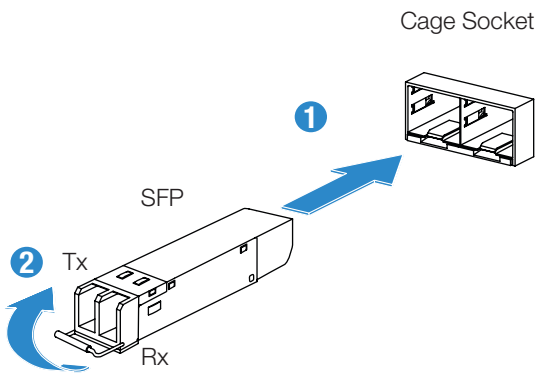


3. Plug the provided power cables into the rear of the unit and then into a grounded electrical outlet or separate power source

SFP Transceivers

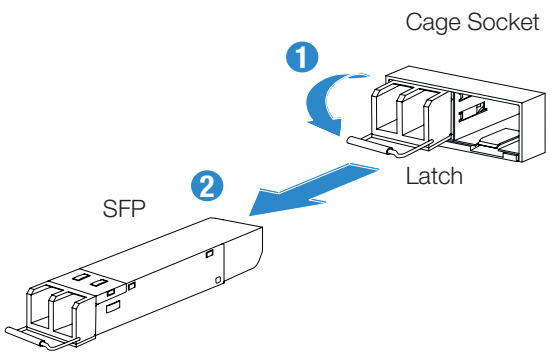
To install the SFP transceivers:

1. Slide the SFP into the cage socket until it clicks into place
2. Lift the latch to lock the SFP



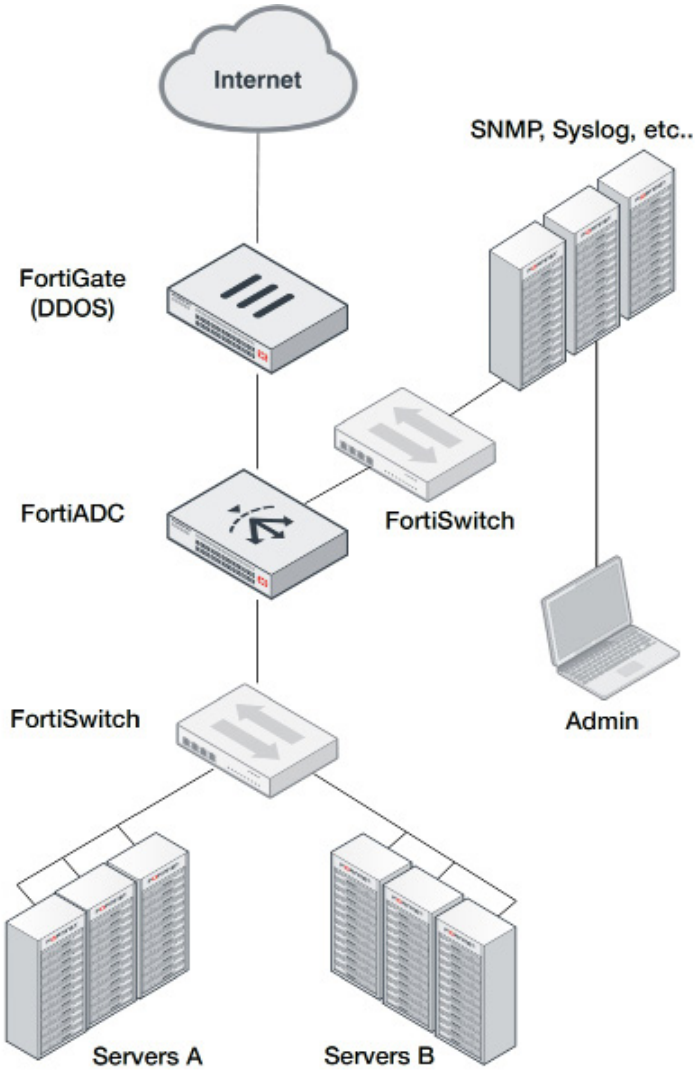
To remove the SFP transceivers:

1. Lower the latch to unlock the SFP
2. Carefully pull the SFP out of the cage socket



Deployment

Fully integrate with Fortinet's Security Fabric to optimize network visibility, load balancing, and user authentication with your new FortiADC.



Setup Options

Set up your device locally using the GUI or CLI. Choose an option to complete your setup, then configure your device.

Local Setup

A GUI

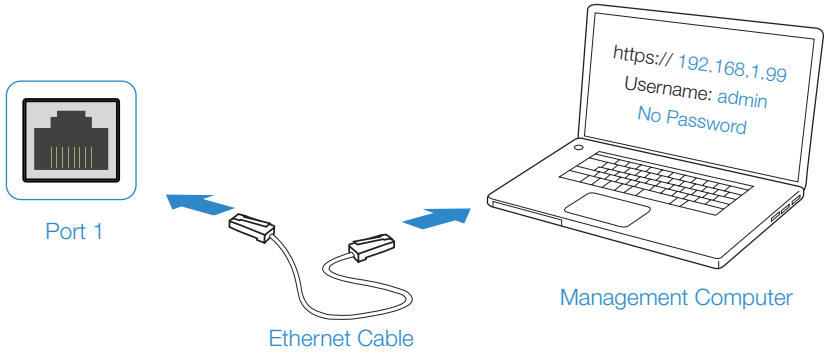
An easy-to-use GUI, compatible with most web browsers. To minimize scrolling, the screen resolution should be at least 1280 x 1024 pixels.

Local Setup

B Command Line Interface (CLI)

An alternate configuration tool from the web-based manager that uses a terminal emulation application to type commands or upload batches of commands from a text file or configuration script.

A GUI

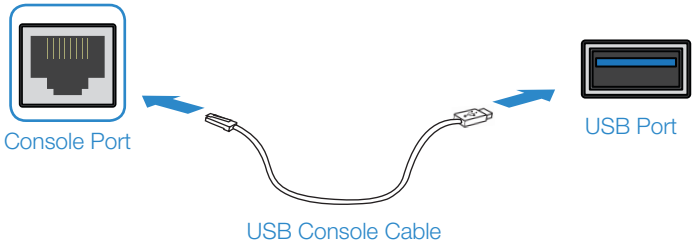


1. Connect Port 1 to the Management Computer using the supplied Ethernet cable
2. Enable DHCP or set the Management Computer's IP and subnet to:

   Static IP Address: 192.168.1.1
   Subnet Mask: 255.255.255.0

3. Visit https://192.168.1.99 in a web browser
4. Log in with username admin and no password
5. You can now configure your FortiADC

B CLI



1. Connect the Console Port with a console cable to the USB Port on the Management Computer

2. Start a terminal program on the Management Computer and select an available COM Port using the following default settings:

   Baud rate: 9600
   Data bits: 8
   Parity: None
   Stop bits: 1
   Flow control: None

3. Log in using username admin and no password

4. You can now configure your FortiADC

Basic Settings

Please refer to the admin guide found on docs.fortinet.com for detailed instruction on configuring your FortiADC.

Basic Network Settings

1. Once you have installed your FortiADC and configured your management interface, we recommend setting the following:

   - ✓ Administrative password
   - ✓ System time and date
   - ✓ Network interfaces
   - ✓ DNS

2. Test the connectivity between devices

3. Register your product, if you haven't already

4. Install your license and update the firmware

5. Configure a basic load balancing policy

6. Test the deployment with a load to verify the system behavior

7. Back up your configuration to have as a restore point

Resources

Refer to the following resources to continue your FortiADC setup.

Fortinet Customer Service & Support

Create a support account, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.
https://support.fortinet.com

Fortinet Document Library

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

Training Services

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

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).

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 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 pres-crites 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.

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

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China

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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.
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