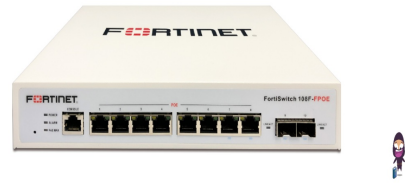


FORTINET FS-108F Series Forti Switch



FORTINET FS-108F Series Forti Switch User Guide

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FORTINET FS-108F Series Forti Switch



Specifications

- Model: FortiSwitch 108F Series
- Variants: FS-108F, FS-108F-POE, FS-108F-FPOE
- Power Input: 12V DC / 1A (FS-108F), 100-240V AC, 0.75A Max, 50-60Hz (FS-108F-POE)
- Port Types: RJ45 (Ports 1-8), SFP (Ports 9-10), RJ45 & SFP (FortiLink Ports 7-10)
- Power over Ethernet (POE) Support: Yes (FS-108F-POE, FS-108F-FPOE)

Product Usage Instructions

Setting Up FortiSwitch 108F Series

1. Connect the power adapter to the designated power input on the rear panel of the device.
2. Connect your network devices to the appropriate ports on the front panel based on your requirements.
3. If using POE, ensure that the connected devices are compatible with the POE standard supported by the switch.
4. If needed, use the console cable to establish a management connection.

LED Indicators on Front Panel

- POWER LED:
 - Green: Power is on
 - Off: Power is off
- PORTS LED:
 - Green: Connected at 1Gbps
 - Amber: Connected at 100Mbps
 - Off: No link established

FAQ

- **Q: How do I register my FortiSwitch?**

A: To register your FortiSwitch and access cloud management, firmware upgrades, and technical support, visit <http://support.fortinet.com>.

- **Q: What should I do if the POWER LED is off?**

A: If the POWER LED is off, check the power connection and ensure that the power adapter is properly plugged in and receiving power.

- **Q: Can I use a PoE PSE device instead of the supplied power adapter?**

A: Yes, you can use a PoE PSE device to power the FS-108F if needed. Ensure compatibility with the device specifications.

FortiSwitch 108F Series

FS-108F, FS-108F-POE, FS-108F-FPOE

March 27, 2024

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Product Registration

Thank you for purchasing a FortiSwitch

Register to access:

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

Please register your Device: <http://support.fortinet.com>

Contents – FS-108F



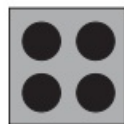
FortiSwitch 108F



QuickStart Guide



Console Cable
(USB to RJ45)

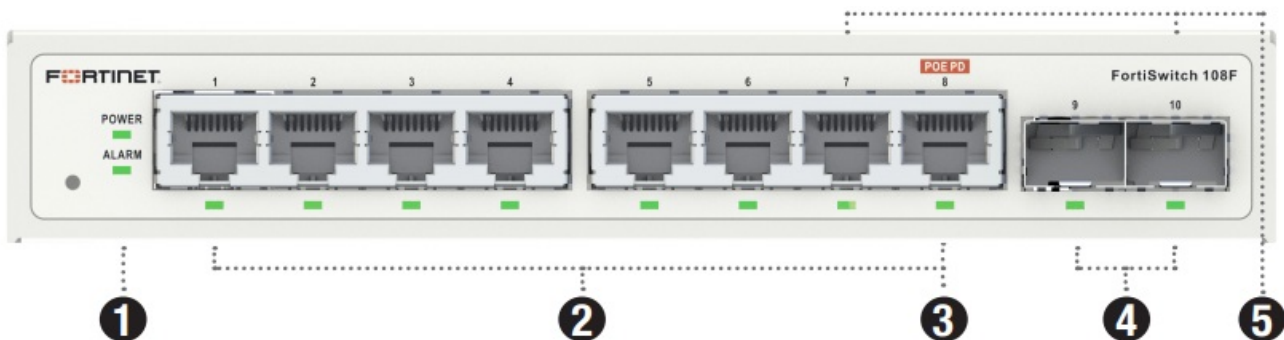


4x Rubber Feet



12V DC / 1A Power Adapter
with US/EU Plugs

Front Panel – FS-108F



1. POWER

■ **Green:** Power is on

■ **Off:** Power is off

ALARM

■ **Amber:** Fault detected

■ **Off:** No fault detected

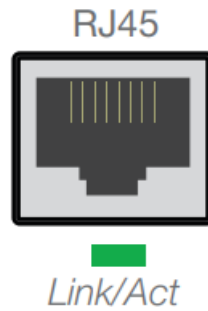
2. Ports 1 to 8 (RJ45) GE network connections

■ **Green:** Connected at 1Gbps

▨ **Flashing Green:** Transmitting & receiving data at 1Gbps

■ **Off:** No Gbps link established

- Act/Link
- **Amber:** Connected at 100Mbps
 - ▣ **Flashing Amber:** Transmitting & receiving data at 100Mbps
 - **Off:** No 100Mbps link established

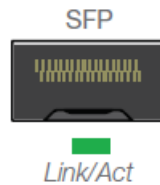


3. Port 8 PoE (RJ-45) GE with PoE PD support, 802.3af/at compliant

NOTE: The supplied 12VDC power adapter can be used or a PoE PSE device to power the FS-108F

4. Ports 9 to 10 (SFP) 1Gbps SFP connections

- Act/Link
- **Green:** Connected
 - ▣ **Flashing Green:** Transmitting & receiving data
 - **Off:** No link established



5. FortiLink Ports 7 to 10 (RJ45 & SFP) FortiLink interface connections

Rear Panel – FS-108F



1. Grounding Screw Used for an additional protective earth connection and is reserved for an application where a permanent local connection of protective earth is required for a network switch
2. Power Supply 12V DC Adapter, AC input 100-240V AC, 1.0A Max, 50-60Hz
3. Console (RJ-45) CLI management computer interface

Contents – FS-108F-POE



FortiSwitch 108F-FPOE



QuickStart Guide



Console Cable
(USB to RJ45)



Power Cable

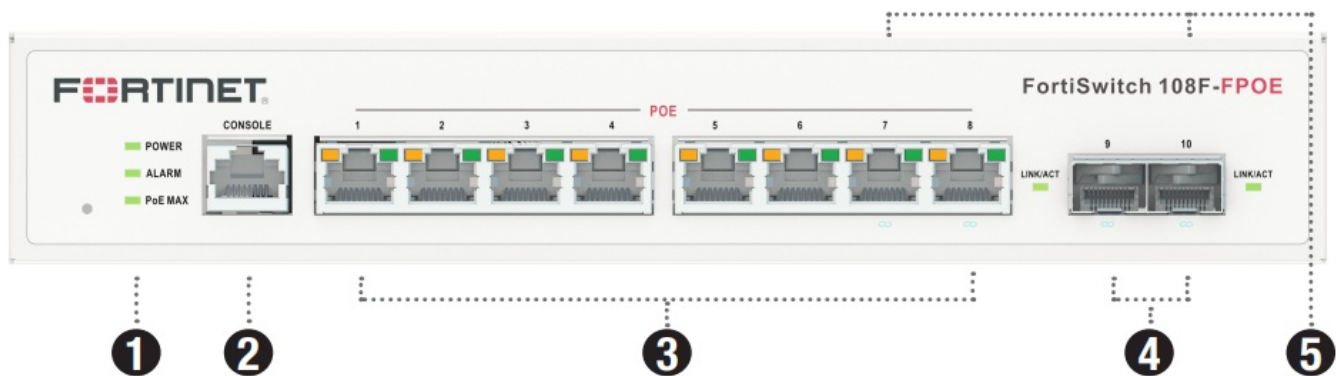


2x Rack-Mount Brackets with
8x Bracket Screws



4x Rubber Feet

Front Panel – FS-108F-POE



1. POWER

■ **Green:** Power is on

■ **Off:** Power is off

ALARM

■ **Amber:** Fault detected

■ **Off:** No fault detected

PoE MAX (up to 65W)

■ **Amber:** PoE output power reached MAX power

■ **Off:** PoE power available

2. CONSOLE CLI management computer interface

3. Ports 1 to 8 (RJ45) GE network connections

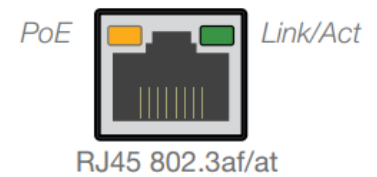
PoE ■ **Amber:** Power delivered

■ **Off:** No power delivered

Act/ ■ **Green:** Connected at 1Gbps or 100Mbps

Link ■ **Flashing Green:** Transmitting & receiving data

■ **Off:** No link established



4. Ports 9 to 10 (SFP) 1Gbps SFP connections

Act/ ■ **Green:** Connected

Link ■ **Flashing Green:** Transmitting & receiving data

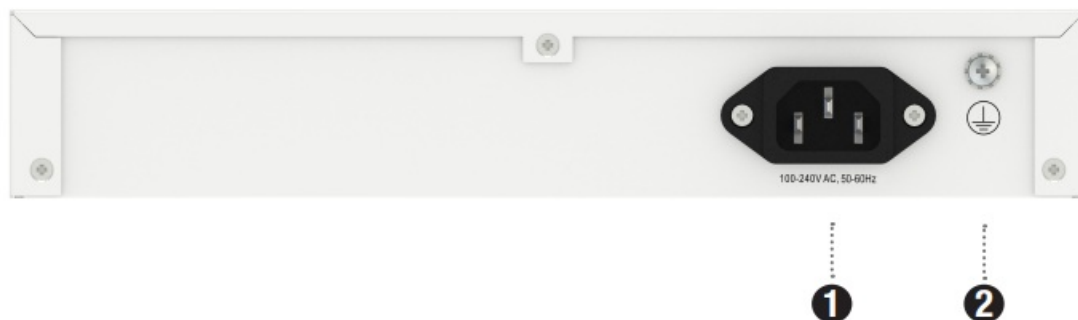
■ **Off:** No link established



5. FortiLink Ports 7 to 10 (RJ45 & SFP) FortiLink interface connections

Rear Panel – FS-108F-POE

1.



Power Supply 100-240V AC, 0.75A Max, 50-60Hz

2. Grounding Screw Used for an additional protective earth connection and is reserved for an application where a permanent local connection of protective earth is required for a network switch

Contents – FS-108F-FPOE



FortiSwitch 108F-FPOE



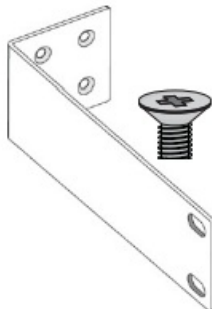
QuickStart Guide



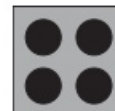
Console Cable
(USB to RJ45)



Power Cable

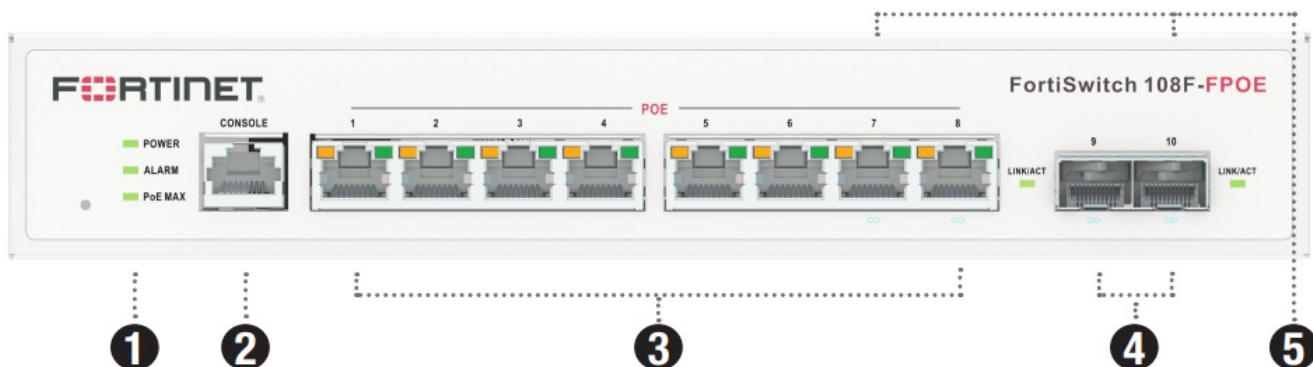


2x Rack-Mount Brackets with
8x Bracket Screws



4x Rubber Feet

Front Panel – FS-108F-FPOE



1. POWER

■ **Green:** Power is on

■ **Off:** Power is off

ALARM

■ **Amber:** Fault detected

■ **Off:** No fault detected

PoE MAX (up to 130W)

■ **Amber:** PoE output power reached MAX power

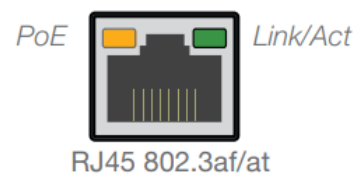
■ **Off:** PoE power available

2. CONSOLE CLI management computer interface

3. Ports 1 to 8 (RJ45) GE network connections

PoE ■ **Amber:** Power delivered
■ **Off:** No power delivered

Act/Link ■ **Green:** Connected at 1Gbps or 100Mbps
■ **Flashing Green:** Transmitting & receiving data
■ **Off:** No link established



4. Ports 9 to 10 (SFP) 1Gbps SFP connections

Act/Link ■ **Green:** Connected
■ **Flashing Green:** Transmitting & receiving data
■ **Off:** No link established



5. FortiLink Ports 7 to 10 (RJ45 & SFP) FortiLink interface connections

Rear Panel – FS-108F-FPOE

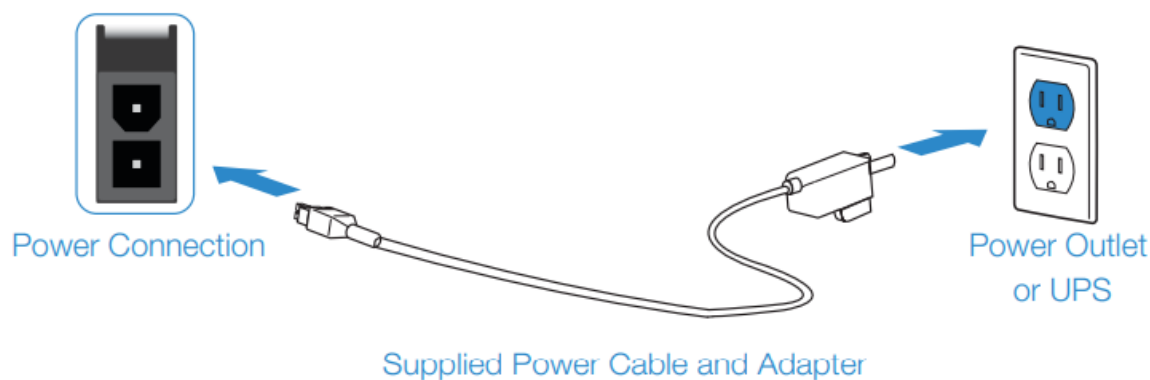


1. Power Supply 100-240V AC, 1.4A Max, 50-60Hz

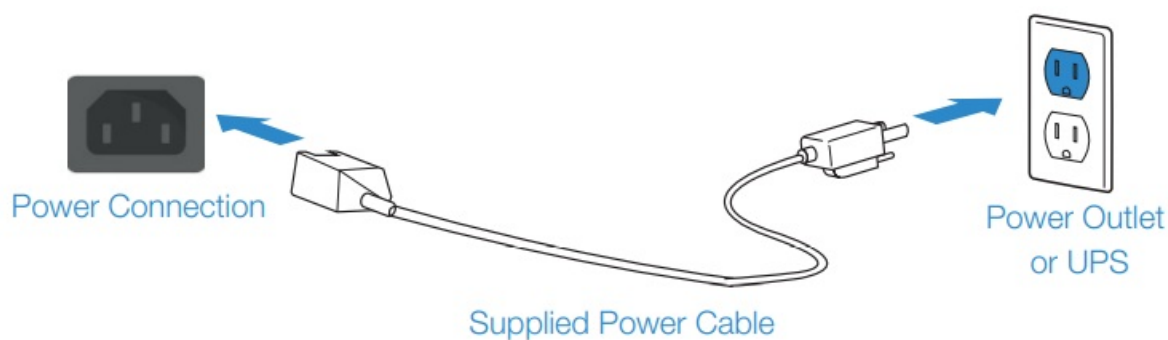
2. Grounding Screw Used for an additional protective earth connection and is reserved for an application where a permanent local connection of protective earth is required for a network switch

Basic Connections

For Model FS-108F



For Models FS-108F-POE, FS-108F-POE

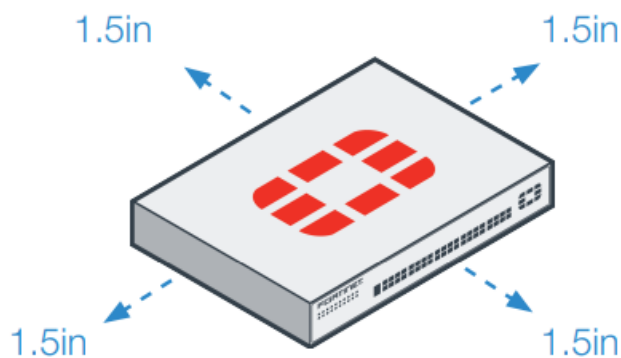


Plug in your device to a power outlet using the provided power cables.

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

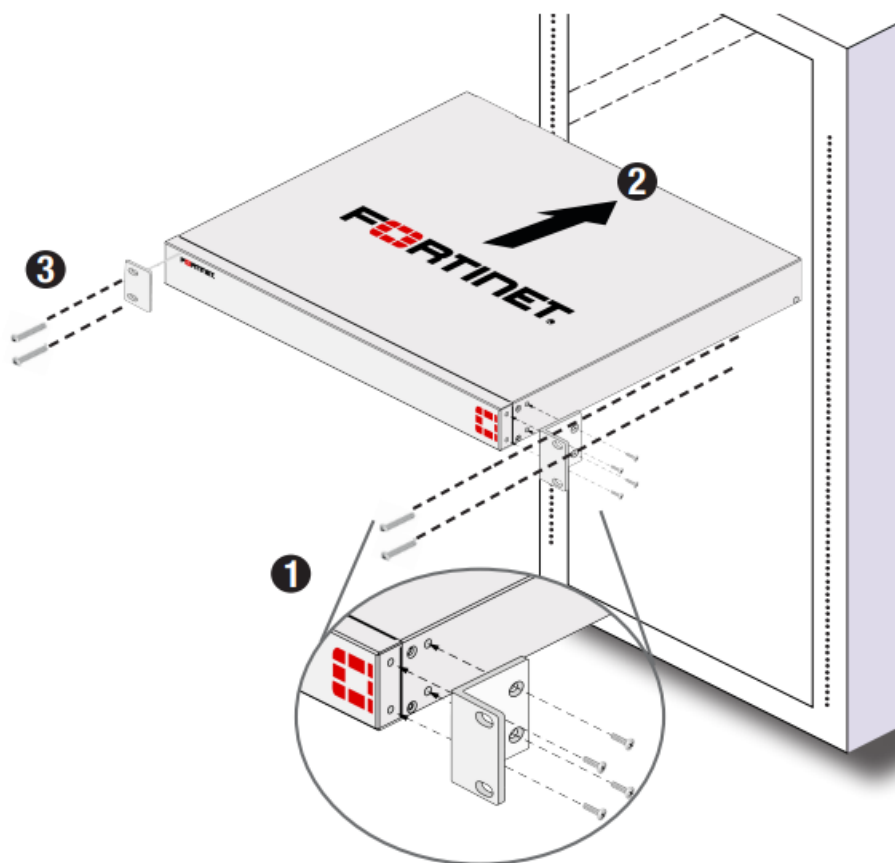
Desktop Option

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

Rack Mount (FS-108F-POE and FS-108F-FPOE only)



Rack mount brackets may vary as shown above

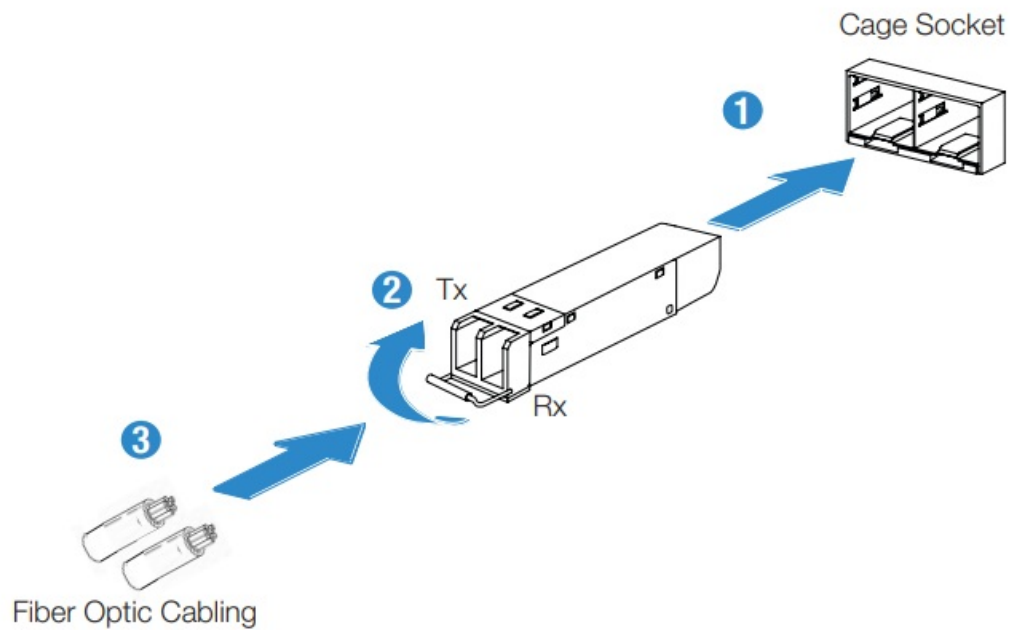
Note: The recommended clearance is 1.5 inches above and below the device.

Caution: To avoid personal injury or damage to the device, it is recommended that two or more people mount the device on a rack.

1Gbps SFP Transceivers

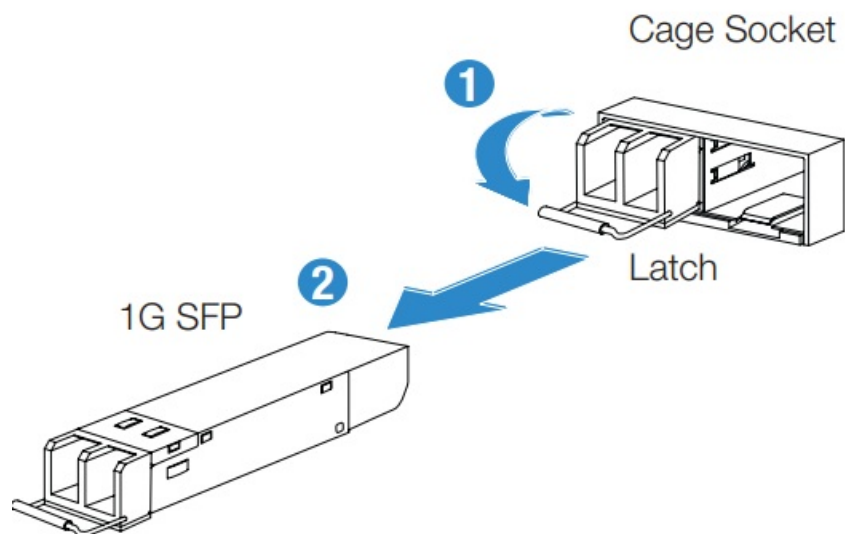
To install 1G SFP transceivers

1. Slide the 1G SFP into the cage socket until it clicks into place
2. Lift the latch to lock the 1G SFP
3. Connect the fiber optic cabling to the 1G SFP



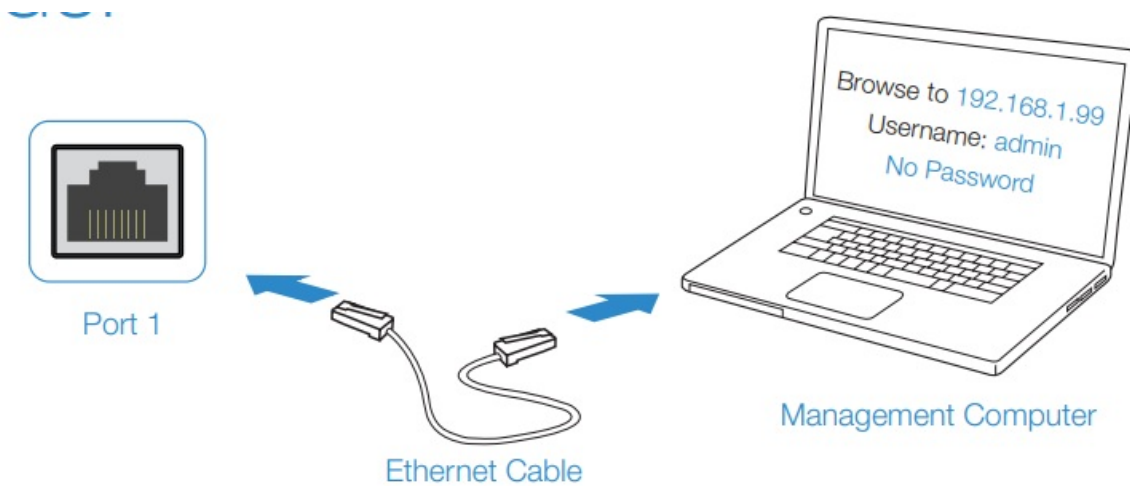
To remove the 1G SFP transceivers:

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



Setup Options

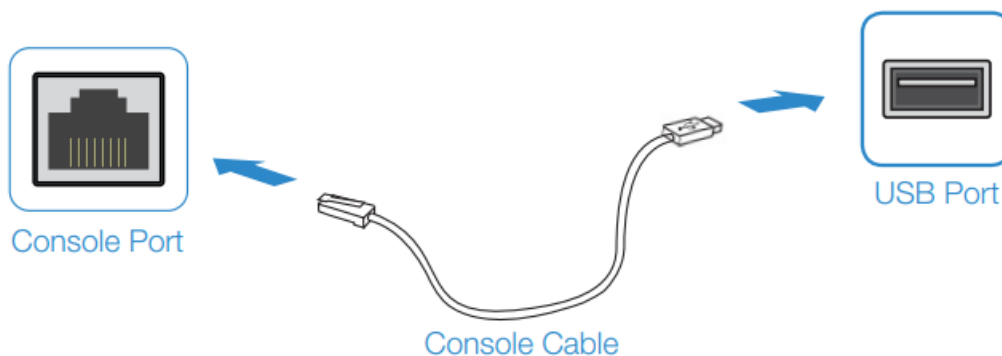
GUI



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 the username admin and no password
5. You can now configure your FortiSwitch

Note: After you log in for the first time, you will be prompted to set a new password

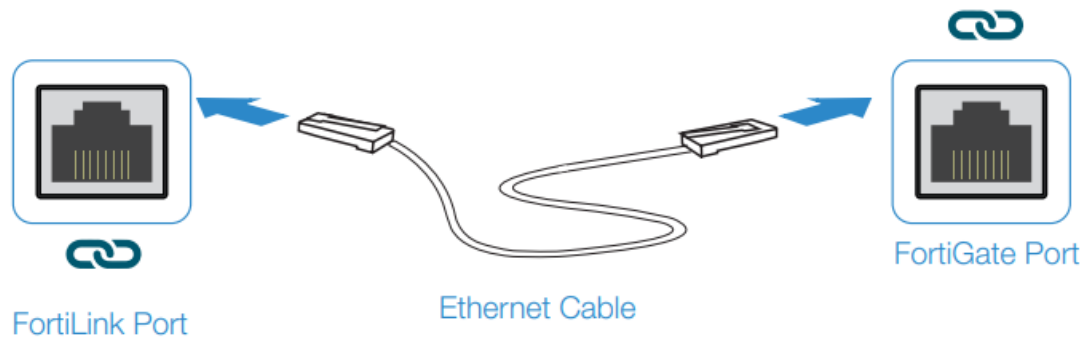
CLI



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: 115200
 - 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 FortiSwitch

Note: After you log in for the first time, you will be prompted to set a new password

FortiLink



1. Login to the FortiGate and go to WiFi & Switch Controller -> FortiLink Interface
2. Add a FortiGate Port in the FortiLink interface
3. When the device is discovered, select Authorize

Optional: To automatically authorize the device upon discovery, enable “Automatically authorize devices” in the FortiLink Interface settings

Cloud Management (Connect a port to the Internet)

1. Visit support.fortinet.com to register your device and cloud management license
2. Sign in at <https://fortilan.forticloud.com> to manage your Inventory List

Cautions and Warnings

Environmental specifications

- Ambient operating temperature: 0°C to 45°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.
- 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.
- **Mechanical Loading – Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.**
- **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.

- **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).

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.

CAUTION:

There is a danger of explosion if a battery is incorrectly replaced. Replace only with the same or equivalent type.

Dispose of batteries according to the manufacturer's instructions.

Disposing of 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.

Caution: This equipment is to be used in a Network Environment 0 per IEC 62101. This product is connected only to PoE networks without routing to the outside plant.

Laser Class 1 optical transceiver shall be used only

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-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 Regulations of the Canadian Department of Communications.

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

Taiwan

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

Documents / Resources

	FORTINET FS-108F Series Forti Switch [pdf] User Guide FS-108F Series Forti Switch, FS-108F Series, Forti Switch, Switch
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References

- [Fortinet Global Leader of Cybersecurity Solutions and Services | Fortinet](#)
- [Fortinet Welcome](#)
- [FortiCloud](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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