

# FortiSwitch 124D

# Register for Support

Register your Fortinet product to receive:

- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

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本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护



June 11, 2015

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<https://support.fortinet.com>

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Phone: 1 408 486 7899

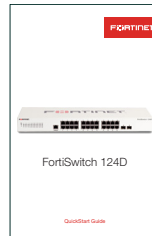
Fax: 1 408 235 7737

Email: [register@fortinet.com](mailto:register@fortinet.com)

## Box Includes



FortiSwitch 124D



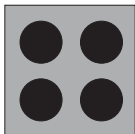
QuickStart Guide



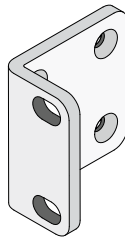
Power Cable



Console Cable



4 Rubber Feet



2 Rack-Mount Brackets



8 Bracket Screws

## Before You Begin

Write down details that you may need from your network administrator or ISP.

### DSL PPPoE

Username

Password

### Cable Modem DHCP

It is normal to not require a hostname, but your ISP may require it.

Hostname

### Static IP address

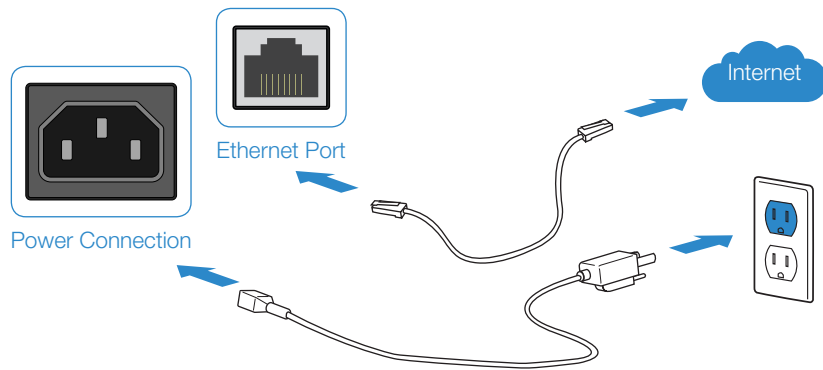
IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

## 1 Basic Connections

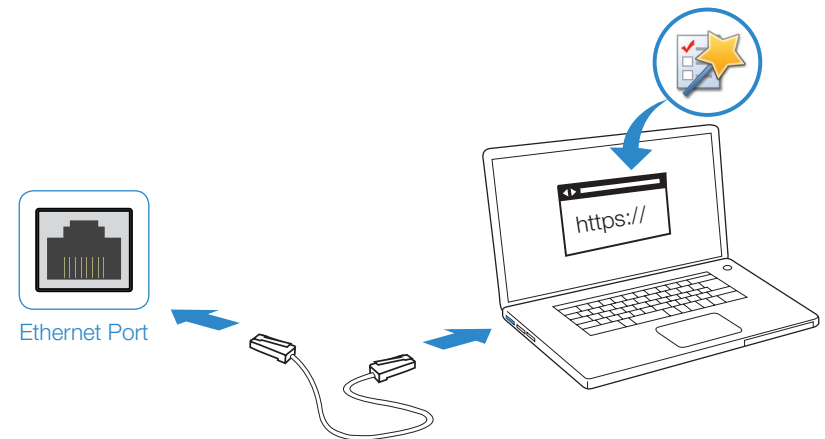


Connect your device to a **power outlet** and an **Internet connection**. This is usually a modem, but could also be another device on your network.

## 2 Setup Options

- A Web Browser**  
With Ethernet cable (p.7)
- B Terminal Emulation**  
With console cable (p.8)

### A Web Browser with Ethernet cable



#### To Connect to the GUI

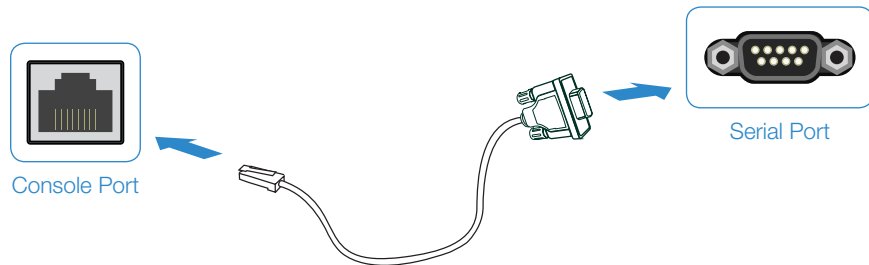
1. Connect an **Ethernet cable**.
2. Configure the management computer to be on the same **subnet** as the internal interface as the FortiSwitch unit:

**IP address:** 192.168.1.XXX

**Netmask:** 255.255.255.0

3. Visit <https://192.168.1.99> in your web browser.
4. Login using username "**admin**" and **no password**.
5. **Configure your device** and save your settings.
6. **Register your device** from the dashboard page.

## B Terminal Emulation with Console Cable



### To Connect to the CLI

1. Connect the device's [console port](#) to the management computer using the provided [console cable](#).
2. Start a [terminal emulation program](#) on the management computer, select the [COM port](#), and use the following settings:

**Baud Rate:** 115200

**Data bits:** 8

**Parity:** None

**Stop bits:** 1

**Flow Control:** None

3. Press [Enter](#) on your keyboard to [connect to the CLI](#).
4. Login using username "[admin](#)" and [no password](#). You can now proceed with configuring your device.

Get started by typing "?" for a list of available [commands](#).

Begin typing a command then type "?" for a list of available ways to complete. For example "[config](#) ?" will show the lowest level of configuration options.

### 3 Installation

The FortiSwitch unit can be placed on any [flat surface](#), or mounted in any standard [19 inch rack](#) unit with the provided rack-mount brackets and screws.

*Please read the Cautions and Warnings section prior to installing your device.*

#### Caution:

Electrostatic discharge (ESD) can damage your Fortinet equipment.

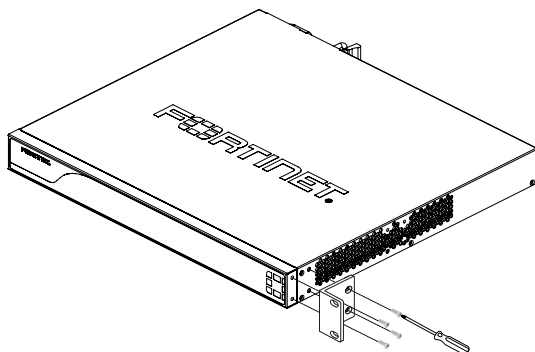
Do not place heavy objects on the unit.

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

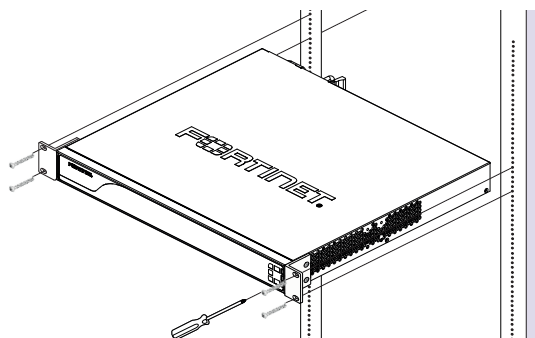
**Note:** If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

#### To install the FortiSwitch unit into a rack

1. Ensure that the FortiSwitch unit is placed on a stable surface prior to [rack-mount](#) installation.
2. Attach the provided [rack-mount brackets](#) to the sides of the unit using the provided [bracket screws](#).



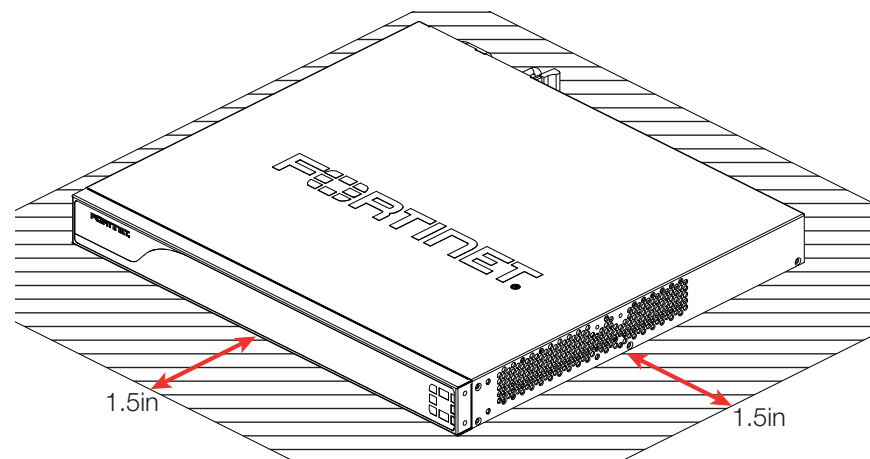
3. Position the FortiSwitch unit in the [rack](#). Ensure there is enough room around the unit to allow for sufficient air flow.



4. Line up the [rack-mount bracket holes](#) to the [holes on the rack](#) and ensure that the FortiSwitch unit is [level](#).
5. Finger tighten [four rack-mount screws](#) to attach the unit to the [rack](#).
6. Verify that the spacing around the FortiSwitch unit conforms to requirements and that the unit is [level](#), then tighten the [rack-mount screws](#) with an appropriate [screwdriver](#).
7. Using the provided [power cable](#), plug the [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).

#### To install the unit on a flat surface

1. Ensure that the surface onto which the FortiSwitch 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 FortiSwitch unit.
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiSwitch unit conforms to requirements and that the unit is [level](#).



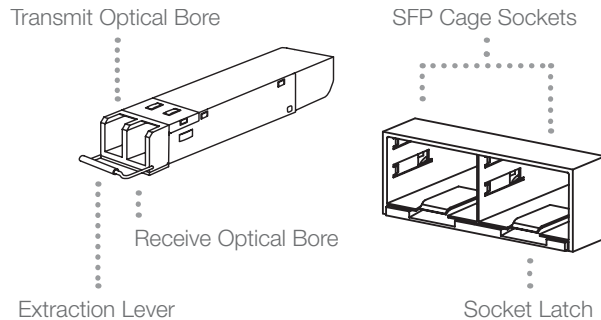
5. Using the provided [power cable](#), plug the cable into the rear of the unit, and then into a [grounded electrical outlet](#) or a separate power source such as an [uninterruptible power supply](#) (UPS) or a [power distribution unit](#) (PDU).

# SFP Transceivers

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

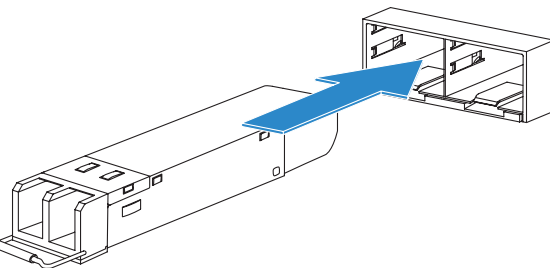
Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

**Note:** 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

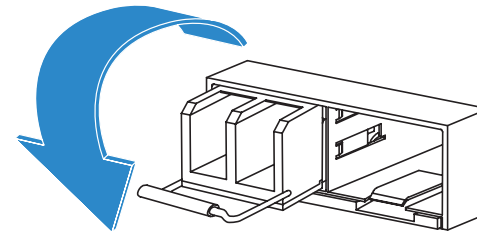
1. Ensure that you are properly grounded.
2. Remove the **caps** from the **SFP cage sockets** on the front panel of the unit.
3. Position the **SFP transceiver** in front of the **cage socket opening** and ensure that the transceiver is correctly oriented. When the **transceiver** is correctly oriented, the **extraction lever** will be level with the **socket latch**.
4. Hold the sides of the **SFP transceiver** and slide it into the **cage socket** until it clicks into place.



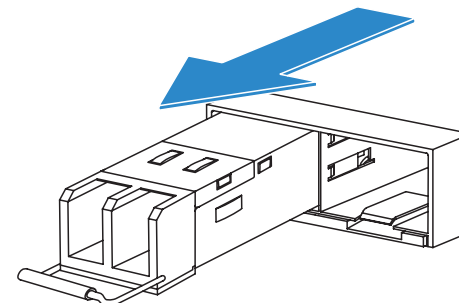
5. Press the **transceiver** firmly into the **cage socket** with your thumb.
6. Verify that the **transceiver** is latched correctly by grasping the sides of the **transceiver** and trying to pull it out without lowering the **extraction lever**.  
If the **transceiver** cannot be removed, it is installed 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 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.

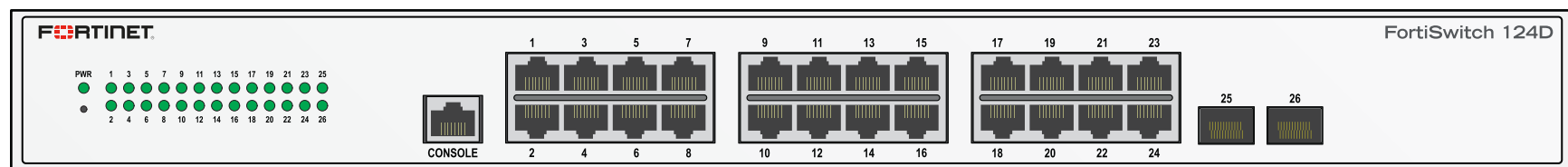
**Note:** Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

## Ethernet Ports

- Green: Connected at 1Gbps
- ⚡ Flashing Green: Transmitting & receiving data at 1Gbps
- Amber: Connected at 10/100Mbps
- ⚡ Flashing Amber: Transmitting & receiving data at 10/100Mbps
- Off: No link established

## Console (RJ-45)

Optional connection to the management computer. Provides access to the CLI



## SFP Ports

- Green: Connected at 1Gbps
- ⚡ Flashing Green: Transmitting & receiving data
- Off: No link established

## SFP Ports 25 and 26 (SFP)

1 Gbps small form-factor pluggable transceiver ports

## Power

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

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

Gigabit Ethernet ports for connection to your network and the Internet



## Power

100-240V AC, 50-60Hz, 0.7A Max





## 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 ( $T_{max}$ ).  
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 ( $T_{max}$ ).  
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.  
For redundant power sources, connect each to an IEC/UL Listed power source whose output rating is greater than or equal to the equipment.  
Surtension – 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.  
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).*

### 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'appliquant 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.  
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.

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