QFX3500 Switch Quick Start

See the complete QFX Series documentation at http://www.juniper.net/techpubs/ .

To install and configure a Juniper Networks QFX3500 Switch, you need:

- Electrostatic discharge (ESD) grounding strap (provided)
- One pair of rear installation blades (provided)
- Eight screws to secure the chassis and installation blades to the rack (not provided)
- Screwdriver appropriate for your rack mounting screws (not provided)
- Two power cords with plugs appropriate for your geographical location (provided)
- RJ-45 cable and RJ-45 to DB-9 serial port adapter (provided)
- Management host, such as a PC laptop, with a serial port (not provided)
- (Optional) Grounding cable kit with bracket, lug, and three nuts with integrated washers. To install the grounding cable, see the QFX3500 documentation at http://www.juniper.net/techpubs/ .

Part 1: Mount the Switch

These instructions describe mounting the switch in a four-post 19-in. rack or cabinet. The QFX3500 switch cannot be installed in a two-post rack.

1. Attach the ESD grounding strap to your bare wrist and to a site ESD point.
2. Place the rack in its permanent location, allowing adequate clearance for airflow and maintenance, and secure it to the building structure.

NOTE: If you are mounting multiple units in the rack, mount the heaviest unit at the bottom and mount the others from bottom to top in order of decreasing weight.

3. With two mounting screws—and cage nuts and washers if your rack requires them—attach one of the installation blades to the rear of the rack at the point where you want to mount the switch. Tighten the screws. The blade helps support the rear of the chassis. You install the second installation blade after securing both front mounting brackets.

NOTE: The switch weighs approximately 30.8 lb (14 kg). Installing the QFX3500 switch in a rack or cabinet at a height above 60 in. (152.4 cm) requires two people to lift it and secure it to the rack.

Installation blade
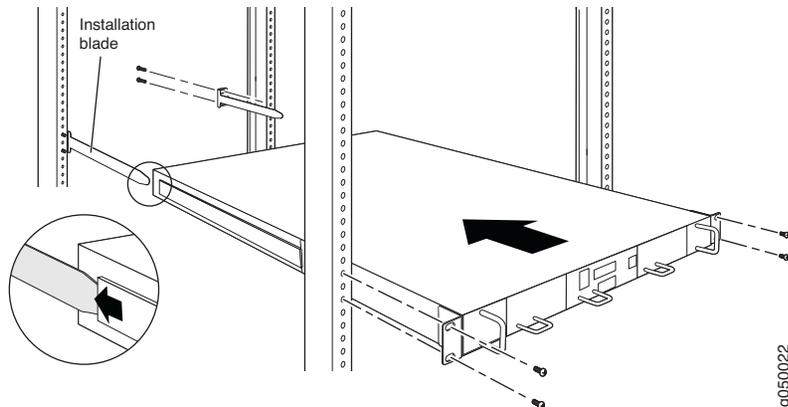
4. Grasp both sides of the switch, lift it, and position it in the rack so that the blade receptacle at the rear of the chassis catches and slides onto the installation blade. If someone is assisting you, have one person stand at the rear of the rack where the installation blade is installed, to help guide the switch onto the installation blade.
5. Align the holes in the front brackets on the chassis with the holes in the rack. Ensure that the chassis is level.
6. With four mounting screws—and cage nuts and washers if your rack requires them—secure the front of the switch to the rack. Insert the first screw on the opposite corner from the rear installation blade you installed. Tighten the screws.
7. Ensure that the switch chassis is level by verifying that all the screws on the front of the rack are aligned with the screws at the back of the rack.
8. With two mounting screws—and cage nuts and washers if your rack requires them—slide the second rear installation blade into the blade receptacle on the chassis, and secure it to the rear of the rack by tightening the screws. You might need to loosen and adjust the first installation blade to install the second blade.

Part 2: Connect Power to the Switch

1. Insert the coupler end of the power cord into the AC power cord inlet on the AC power supply faceplate.
2. Push the power cord retainer down onto the power cord.

Cord retainer
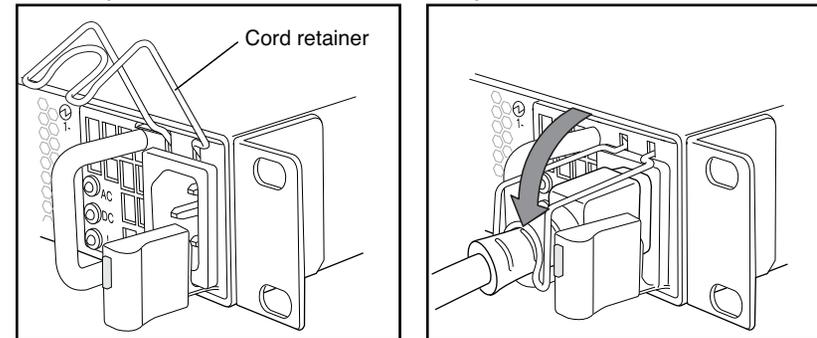
3. If the AC power source outlet has a power switch, set it to the OFF (O) position.

NOTE: The switch powers on as soon as power is provided to the power supply. There is no power switch on a QFX3500 switch.

4. Insert the power cord plug into an AC power source outlet.
5. If the AC power source outlet has a power switch, set it to the ON (|) position.
6. Repeat these steps for the second AC power supply, if one is installed.

Part 3: Perform the Initial Configuration

You must perform the initial configuration of the switch through the console port. Before you begin, set the following parameter values in the console server or PC:

- Baud Rate—9600
- Flow Control—None

- Data—8
- Parity—None
- Stop Bits—1
- DCD State—Disregard

To connect and configure the switch from the console:

1. Connect the console port to a laptop or PC using the provided RJ-45 cable and RJ-45 to DB-9 serial port adapter. The console (**CON**) port is located on the front panel of the switch.

2. Log in as `root`. There is no password. If the software booted before you connected to the console port, you might need to press the Enter key for the prompt to appear.

   ```
   login: root
   ```

3. Start the command-line interface (CLI).

   ```
   root@% cli
   ```

4. Enter configuration mode.

   ```
   root> configure
   ```

5. Add a password to the root administration user account.

   ```
   [edit]
   root@# set system root-authentication plain-text-password
   New password: password
   Retype new password: password
   ```

6. (Optional) Configure the name of the switch. If the name includes spaces, enclose the name in quotation marks (" ").

   ```
   [edit]
   root@# set system host-name host-name
   ```

7. Configure the default gateway.

   ```
   [edit]
   root@# set routing-options static route default next-hop
   address
   ```

8. Configure the IP address and prefix length for the switch management interface.

   ```
   [edit]
   root@# set interfaces me0 unit 0 family inet address
   address/prefix-length
   ```

NOTE: The management ports are on the front panel of the QFX3500 switch. They are labeled **C0** and **C1** on the front panel. In the CLI they are referred to as `me0` and `me1`.

9. (Optional) Configure the static routes to remote prefixes with access to the management port.

   ```
   [edit]
   root@# set routing-options static route remote-prefix next-hop
   destination-ip retain no-readvertise
   ```

10. Enable telnet service.

    ```
    [edit]
    root@# set system services telnet
    ```

11. Commit the configuration to activate it on the switch.

    ```
    [edit]
    root@# commit
    ```

Safety Warnings Summary

This is a summary of safety warnings. For a complete list of warnings, including translations, see the QFX3500 switch documentation at http://www.juniper.net/techpubs/ .

⚡ **WARNING:** Failure to observe these safety warnings can result in personal injury or death.

- Permit only trained and qualified personnel to install or replace switch components.
- Perform only the procedures described in this quick start and the QFX3500 switch documentation. Other services must be performed only by authorized service personnel.
- Before installing the switch, read the planning instructions in the QFX3500 switch documentation to make sure that the site meets power, environmental, and clearance requirements for the switch.
- Before connecting the switch to a power source, read the installation instructions in the QFX3500 switch documentation.
- The QFX3500 switch weighs approximately 30.8 lb (14 kg). Manually installing the QFX3500 switch in a rack or cabinet at a height above 60 in. (152.4 cm) requires two people to lift the switch and install mounting screws. To prevent injury, keep your back straight and lift with your legs, not your back.
- If the rack or cabinet has stabilizing devices, install them in the rack before mounting or servicing the switch in the rack or cabinet.
- Before installing or after removing an electrical component, always place it component-side up on a flat antistatic mat or in an antistatic bag.
- Do not work on the switch or connect or disconnect cables during electrical storms.
- Before working on equipment that is connected to power lines, remove jewelry, including rings, necklaces, and watches. Metal objects heat up when connected to power and ground and can cause serious burns or become welded to the terminals.

⚠ **CAUTION:** Do not place a copper transceiver in an access port directly above or below another copper transceiver. Damage to the access ports will occur.

Power Cable Warning (Japanese)

The attached power cable is only for this product. Do not use this cable for another product.

注意

附属の電源コードセットはこの製品専用です。
他の電気機器には使用しないでください。

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Contacting Juniper Networks

For technical support, see http://www.juniper.net/support/requesting-support.html .