QFX3600 Device Quick Start

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

To install and configure a Juniper Networks QFX3600 device, you need:

- Electrostatic discharge (ESD) grounding strap (provided).
- One pair of rear installation blades (part number 540-038598). These installation blades support the rear of the chassis, and must be installed (provided).
- One pair of mounting brackets (part number 540-038596) (provided).
- Six M4 x 5-mm screws. These screws attach the mounting brackets to the chassis (provided).
- Phillips (+), number 1 screwdriver for the mounting bracket screws (not 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 attached to lug (provided) and two M5 screws (provided) with integrated washers.

NOTE: These instructions describe installing the chassis in a four-post rack or cabinet and connecting AC power to the device. For other installation options, see the QFX3600 device documentation at http://www.juniper.net/techpubs/ .

Part 1: Attach the Installation Blades to the Rack

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.

1. Place the rack in its permanent location, allowing adequate clearance for airflow and maintenance, and secure it to the building structure.
2. With four mounting screws—and cage nuts and washers if your rack requires them—attach the installation blades to the rear of the rack at the point where you want to mount the device. Tighten the screws. The blades help support the rear of the chassis.

Part 2: Attach the Mounting Brackets to the Chassis

NOTE: The QFX3600 device can be ordered with FRU-side-to-port-side airflow or port-side-to-FRU-side airflow. The mounting brackets can be attached to the chassis so that the mounting ears are on the port (front) side or the FRU (rear) side.

1. Attach the ESD grounding strap to your bare wrist and to a site ESD point. Place the device on a flat, stable surface.
2. Align the mounting brackets along the front or rear of the side panels of the device chassis depending on how you want to mount the device. For example, if you want to front-mount the device, align the brackets along the front of the side panel as shown in the figure.
3. Align the holes in the mounting brackets with holes on the side panels of the device chassis.
4. Insert the provided M4 x 5-mm screws into the aligned holes. Tighten the screws.

Part 3: Install the Chassis in the Rack

1. Grasp both sides of the device, lift it, and position it in the rack so that the mounting bracket 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 blades are installed, to help guide the device onto the installation blades.
2. Align the holes in the front brackets on the chassis with the holes in the rack. Ensure that the chassis is level.
3. With four mounting screws—and cage nuts and washers if your rack requires them—secure the front of the device to the rack. Tighten the screws.
4. Ensure that the device 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.
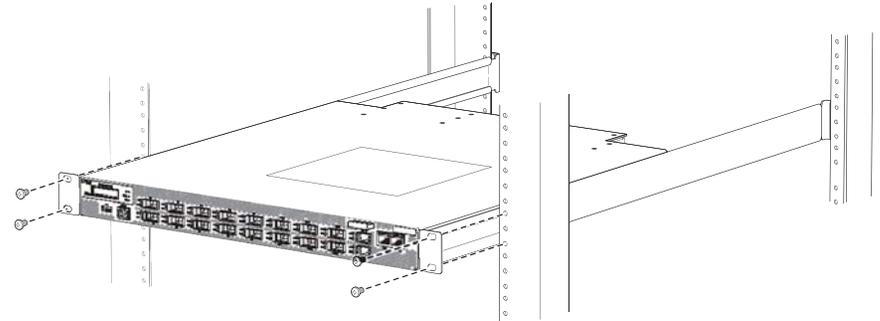
Part 4: Connect the Device to Earth Ground

1. Connect one end of the grounding cable to a proper earth ground, as defined by local electrical codes.
2. Place the grounding lug over the protective earthing terminal on the left rear of the chassis, and secure the lug with the provided M5 screws.

Part 5: Connect Power to the Device

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

NOTE: The device powers on as soon as power is provided to the power supply. There is no power switch on a QFX3600 device.

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 6: Next Steps

NOTE: The initial connection and configuration of your QFX3600 device as a Node device with your QFabric system are beyond the scope of this quick start. For detailed information about using the device as a Node device with your QFabric system, see the deployment guide for your QFabric system at http://www.juniper.net/techpubs/.

If you are using the QFX3600 device as a standalone switch, 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 QFX3600 switch. They are labeled **C0**, **C1**, **C0S**, and **C1S** on the front panel. The first set of ports (**C0** and **C1**) are Gigabit Ethernet RJ-45 ports, the second set of ports (**C0S** and **C1S**) are 1-Gbps SFP ports. You can use either the RJ-45 or SFP management ports, but not both. If you insert an SFP in **C0S** or **C1S** the corresponding RJ-45 port is disabled.

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 QFX3600 device 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 device components.
- Perform only the procedures described in this quick start and the QFX3600 device documentation. Other services must be performed only by authorized service personnel.
- Before installing the device, read the planning instructions in the QFX3600 device documentation to make sure that the site meets power, environmental, and clearance requirements for the device.
- Before connecting the device to a power source, read the installation instructions in the QFX3600 device documentation.
- The QFX3600 device weighs approximately 20.5 lb (9.3 kg). 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 device 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 device 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.

Power Cable Warning (Japanese)

注意

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

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 .