



# Juniper NETWORKS QFX10002-72Q Ethernet Switch Tempest User Guide

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## Juniper NETWORKS QFX10002-72Q Ethernet Switch Tempest User Guide



### QFX10002

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### Step 1: Begin

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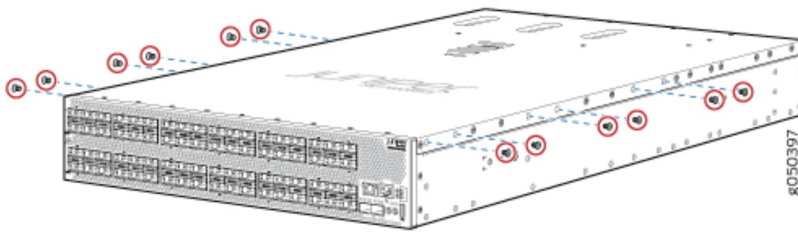
To install and configure any model of the Juniper Networks QFX10002 switch, you need:

- Either an electrician or two people to place the switch into place. An electrician is needed for securing the switch to the rack.
- Voltage discharge (ESD) grounding strap (not provided)
- One pair of front mounting rails (provided)
- One pair of rear mounting blades (provided)
- 24 1/4"-7 M4x6-mm Phillips mounting screws to secure the mounting rails to the chassis (provided)
- 16 screws to secure the chassis and mounting blades to the rack (not provided)
- Screwdriver appropriate for your rack mounting screws (not provided)
- Two power cords with plugs for QFX10002-36Q, four power cords with plugs for QFX10002-60C and QFX10002-72Q that are appropriate for your geographical location (provided)
- RJ-45 cable and RJ-45 to DB-9 serial port adapter (not provided)  
**NOTE:** We no longer include a DB-9 to RJ-45 cable or a DB-9 to RJ-45 adapter with a CAT5E copper cable as part of the device package. If you require a console cable, you can order it separately with the part number JNP-CBL-RJ45-DB9 (DB-9 to RJ-45 adapter with a CAT5E copper cable).
- Management host, such as a PC laptop, with a serial port (not provided)
- (Electrician) Grounding cable kit with bracket, lug, and three nuts with integrated washers

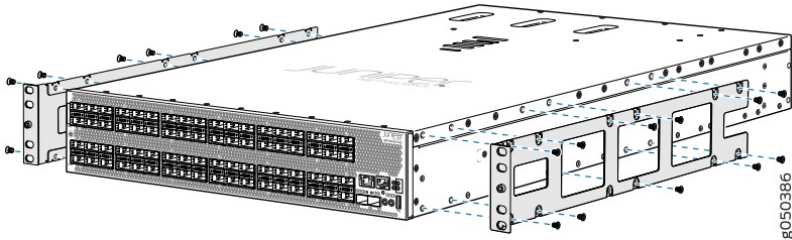
## Mount the QFX10002

The QFX10002 can be mounted in a four-post 19-inch rack configuration. To mount the switch:

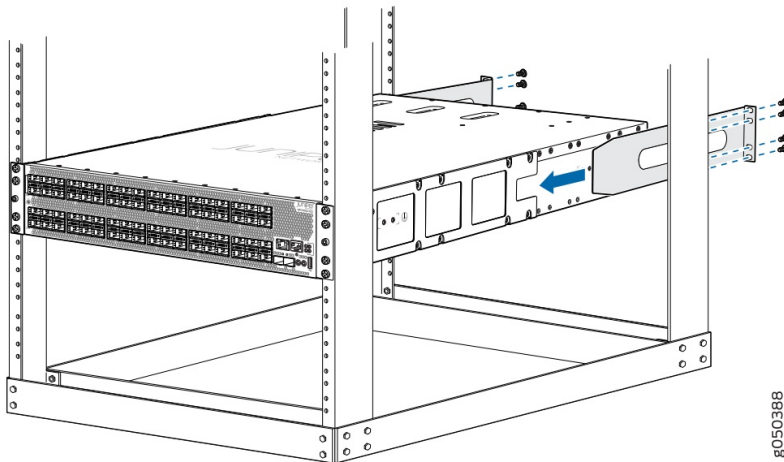
1. Attach the ESD grounding strap to your bare wrist and to a site ESD point.  
**NOTE:** If you are mounting multiple units in the rack, mount the heaviest unit at the bottom and mount the others from bottom to top in order of decreasing weight. The QFX10002-72Q weighs 68.6 lbs (31.1 kg), the QFX10002-60C weighs 80.5 lbs (36.5 kgs), and the QFX10002-36Q weighs 54 lbs (24.5 kg). Installing the switch in a rack requires either a mechanical lift or two people to place the device and another person to secure it to the rack.
2. Place the rack in its permanent location, allowing adequate clearance for airflow and maintenance, and secure it to the building structure.
3. Decide whether the Controller/Service unit (FRU) end of the switch or the port end is to be placed at the front of the rack. Label the switch in such a manner that the AIR OUT labels on components are next to the hot aisle.
4. Using a Phillips screwdriver, remove the six screws on each side of the chassis that hold the cover to the chassis.



5. Align the holes in the mounting rail with the holes on the side of the chassis.
6. Secure the mounting rail to the switch using 11 mounting screws. Tighten the screws.



7. Repeat Step 5 and Step 6 on the opposite side of the device.
8. Either use a mechanical V-block or have two people grasp both sides of the switch, V-block it, and rest it on it in the rack so that the front bracket is aligned with the rack holes.
9. Have a second person secure the front of the switch to the rack using eight mounting screws (and cage nuts and washers if your rack requires them.) Tighten the screws.
10. Insert the rear mounting brackets into the channel of the side mounting rails and securing the blades to the rack. Use the eight mounting screws (and cage nuts and washers if your rack requires them) to secure each blade to the rack. Tighten the screws.



11. 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.
12. Connect a grounding cable to earth ground and then connect it to the chassis grounding points

## Connect Power to the QFX10002

To connect power to an AC-powered QFX10002 switch:

1. If the AC power source outlet has a power switch, set it to the OFF (0) position.
2. Insert the coupler end of the power cord into the AC power cord inlet on the AC power supply faceplate.
3. Push the power cord retainer onto the power cord.
4. Insert the power cord plug into the power source outlet.
5. If the AC power source outlet has a power switch, set it to the ON (I) position.

6. Verify that the AC and the DC LEDs are lit green and on steadily.

## Step 2: Up and Running

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#### Set Parameter Values

You must perform the bnb-V Configuration 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

#### Perform the mb-V omC]tu- om

To connect and conC]tr; the switch from the console:

1. Connect the console port to a laptop or PC using an RJ-45 cable and RJ-45 to DB-9 adapter (not provided).  
The console (CON) port is located on the management panel of the switch.
  2. Log in as root. There is no password. If the so[w-r; 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 CLI.  
root@% cli
  4. Enter configuration mode  
root> configure
  5. Add a password to the root -7mbnbs|r- on 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 q]o]- on marks (" ").
  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 em@ unit @ family inet address address/prefix-length
- NOTE:** The RJ-45 management port, em0, and SFP management port, em1, are found on the management

panel of the QFX10002. They are both labeled MGMT.

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
```

## Step 3: Keep Going

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### Safety Warnings Summary

This is a summary of safety warnings. For a complete list of warnings, including translations, see the QFX10002 switch documentation at [https://www.juniper.net/documentation/product/en\\_US/qfx10002](https://www.juniper.net/documentation/product/en_US/qfx10002).



**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 QFX10002 switch documentation. Other services must be performed only by authorized service personnel.
- Before installing the switch, read the planning instructions in the QFX10002 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 QFX10002 switch documentation.
- The QFX10002-72Q weighs 68.6 lbs (31.1 kg), the QFX10002-60C weighs 80.5 lbs (36.5 kgs), and the QFX10002-36Q weighs 54 lbs (24.5 kg). Installing the switch in a rack or cabinet requires either a mechanical lift or two people to lift the device and another person to secure it to the rack. 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.

### Contacting Juniper Networks

For technical support, see:

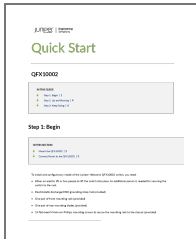
<http://www.juniper.net/support/requesting-support.html>

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## Documents / Resources

	<p><a href="#">Juniper NETWORKS QFX10002-72Q Ethernet Switch Tempest</a> [pdf] User Guide QFX10002-72Q, QFX10002-60C, QFX10002-36Q, QFX10002-72Q Ethernet Switch Tempest, Ethernet Switch Tempest, Switch Tempest</p>
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## References

- [Contact - Support - Juniper Networks](#)
- [QFX10002 Documentation | Juniper Networks](#)
- [User Manual](#)