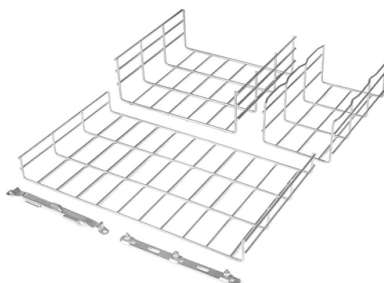


Juniper to check optical module model



Overview

Display diagnostics data and alarms for Gigabit Ethernet optical transceivers (SFP, SFP+, XFP, QSFP+, or CFP) installed in EX Series Switches or QFX Series Switches.

Key Takeaways

You can recognize Juniper optical modules by using the `show interfaces diagnostics optics` command to view module type, vendor, and operational parameters.

Accessing Module Information

Connect to the device: Use a serial console cable or SSH to access the Juniper switch or router management port. Login: Enter your username and password to access the CLI. Enter operational mode: Type `cli` and press Enter to access Junos OS operational mode.

Commands to Identify Optical Modules

Basic status: `CodeCopyshow interfaces diagnostics optics` This command lists all installed optical modules, showing their status, type, vendor, temperature, voltage, and optical power levels. Interface-specific details: `CodeCopyshow interfaces diagnostics optics` Replace with the specific port (e.g., `ge-0/0/1`, `xe-0/0/2`) to view detailed information for that module. High-speed modules: For 100G QSFP28 transceivers, use: `CodeCopyshow interfaces diagnostics optics-profile` This provides detailed monitoring data including laser output power, receive power, and temperature.



Interpreting the Output

The output typically includes: Module type: SFP, SFP+, XFP, QSFP+, or CFP
Vendor information: Juniper-branded or third-party
Operational parameters: Transmit (Tx) and receive (Rx) optical power
Module temperature
Supply voltage
Laser bias current
TEC current (for temperature control)
Alarms and warnings: High/low thresholds indicate potential issues but do not always mean immediate failure.

Additional Tips

Check interface labeling: Match the interface number in the CLI with the physical port on the switch panel. Verify compatibility: Confirm that the module type and coding are compatible with your Juniper device to avoid operational issues. Third-party modules: Non-Juniper modules are usually listed with their vendor name and may have different threshold values.

By using these commands and interpreting the diagnostic output, you can accurately recognize and monitor Juniper optical modules, ensuring proper operation and compatibility.

Article Content

[show interfaces diagnostics optics | Junos OS | Juniper Networks](#)

Display diagnostics data and alarms for Gigabit Ethernet optical transceivers (SFP, SFP+, XFP, QSFP+, or CFP) installed in EX Series Switches or QFX Series Switches.

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Reading internal transceiver data helps monitor link status, optical power, temperature and coding compatibility between modules and switches. We use Mduletek SFP-10G-LR

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Display diagnostics data, warnings, and alarms for Gigabit Ethernet, 10-Gigabit Ethernet, 40-Gigabit Ethernet, 100-Gigabit Ethernet, or Virtual Chassis port interfaces. Displays diagnostics for optical

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To check the SFP module status and transceiver information on Juniper devices, enter the command "show interfaces diagnostics optics". This command reveals essential details such as

How To Check Sfp Module In Juniper

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Checking TX / RX optical power in Juniper (JunOS)

For checking transmission links, it is good to know how to find out the optical power for troubleshooting and making sure the desired or optimal range is met. Here is the sample command for checking the

How do i check the sfp status on my juniper switch?

This command will provide detailed information about the SFP module, including the status, type, vendor, and various optical parameters such as power levels and signal quality.

How to show optical transceivers (SFP) information on Juniper EX

Networking Juniper Juniper EX Switch How to show optical transceivers (SFP) information on Juniper EX

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show-system-inventory-hardware-optics

Output Fields #xd_4e7502110d0802e3--56c1866e-18db057ac9f--7fbe__show-system-inventory-hardware-optics-table lists the output fields for the show system inventory hardware optics

How To Check Sfp Module In Juniper

The Juniper show SFP type command provides diagnostics data and alarms for Gigabit Ethernet optical transceivers (SFP, SFP+, XFP, QSFP+, or

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