

# How to measure the optical port speed of a switch



## Overview

How To View Optical Transceiver Information On Huawei Switches Optical transceivers are widely applied in switches, network cards, routers and other communi.

## Key Takeaways

You can check the optical port speed on a switch using CLI commands like show interface and show interface status, which display the negotiated speed, link status, and transceiver details.

## Using CLI Commands

For Cisco switches, the most direct method is through the command-line interface (CLI): Check a specific port: Use show interface to display detailed information, including the negotiated speed, duplex mode, and link status. For example, show interface gi1/0/1 shows the speed of Gigabit Ethernet port 1/0/1. Check all ports: Running show interface status lists all switch ports with their current speed, status (up/down), and type of connection.

Filter output: To focus on speed only, you can filter the output using | include Mb/s to see lines that indicate the port speed.

## Verifying Transceiver Information

Optical ports rely on SFP or SFP+ transceivers, and their specifications affect the achievable speed: Transceiver details: Use show inventory to view model, serial number, and type of transceiver installed. Compatibility check: Ensure both ends of the fiber link use compatible SFPs and support the same speed. Use show idprom interface to verify transceiver coding and capabilities.

Supported speeds: The command show interface capabilities confirms the speeds supported by the port and transceiver.

### **Additional Considerations**

Link status: A port may show as “up” but still operate at a lower speed if the connected device or cable limits it. Cabling: Use the correct fiber type (single-mode or multimode) and ensure proper transmit-to-receive connections. Troubleshooting: If the port speed is lower than expected, check for errors, mismatched duplex settings, or non-compatible SFPs.

By combining these commands and checks, you can accurately determine the optical port speed, verify transceiver compatibility, and ensure optimal network performance.

## **Article Content**

### **How To View Optical Transceiver Information On Huawei Switches**

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

### **How To View Port Status And Optical Module Information On Cisco**

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interfaces interface-id—Specifies an Ethernet interface ID or a list of Ethernet interface IDs. The interface must be active and working at 100 Mbps or 1000 Mbps. To show the optical transceiver

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. The information provided by this

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