How to measure the optical port speed of a switch



Overview

How To View Optical Transceiver Information On Huawei SwitchesOptical 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

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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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This article provides instructions on how to view the Optical Module Status on your switch through the Command Line Interface (CLI). The Cisco Small Business Series Switches allow you to plug in a

PHY Diagnostics Commands

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

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