How to check the optical port speed of a switch

Overview

By reading internal parameters of optical transceivers on switches, users can monitor link status, real-time transmit/receive power, operating temperature and other data.

Key Takeaways

You can check the optical port speed on a switch using CLI commands like show interface status or show interface transceiver detail to view the negotiated speed, duplex, and module type.

Using CL

I Commands on Cisco SwitchesCheck Interface StatusRun show interface status to see all ports, their link state, speed, and type. Optical ports will typically show as SFP or fiber with the current speed (e.g., 1G, 10G, 25G) and whether the link is up. Example output: CodeCopyGi1/0/1 connected 1000 full SFP-1GBase-SX View Detailed Transceiver InformationUse show interface transceiver detail or show interface transceiver properties to get Digital Diagnostic Monitoring (DDM) metrics such as Tx/Rx power, temperature, voltage, and the exact speed supported by the SFP module.

This command also confirms the module type and vendor, helping detect compatibility issues. Check Inventoryshow inventory lists all installed SFPs with Product ID (PID), Version ID (VID), and serial number. This helps verify that the optical module supports the desired speed.

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Check Interface Capabilitiesshow interface capabilities displays the speeds and duplex modes the port can negotiate. If the port is set to auto, the actual speed depends on the connected device. Optional: From a Connected PCOn Windows, open Command Prompt and run wmic nic get name, speed to see the speed of the network adapter connected to the switch port.

On Mac, use Terminal commands like ifconfig to check the link speed of the connected interface.

Notes

If the port shows auto speed, the actual speed is negotiated with the connected device. Forcing a specific speed can be done in interface configuration mode: CodeCopyconf tinterface speed 1000duplex full Always ensure the SFP module is compatible with the switch and supports the intended speed to avoid link errors. By following these steps, you can accurately determine the operational speed of optical ports, verify link health, and troubleshoot connectivity issues.

Article Content

Cisco SFP Commands Cheat Sheet: Check Status & Troubleshoot

This guide gives a practical, CLI-focused workflow for checking SFP health and diagnostics on Cisco switches, shows the exact commands you''ll use, explains what the numbers mean, and compares

How To View Port Status And Optical Module Information On Cisco

By reading internal parameters of optical transceivers on switches, users can monitor link status, real-time transmit/receive power, operating temperature and other data. It also verifies coding

How To View Port Status And Optical Transceiver Information

We have shared transceiver query methods for mainstream switches such as Huawei, H3C and Cisco. Fortinet switches use distinctive CLI commands. We connect Moduletek SFP-GE

Cisco Command to Check SFP Module Details

By checking module health, compatibility, and digital diagnostics, you can quickly confirm correct installation, detect optical problems, and maintain accurate hardware inventory.

How to show interface transceiver details on Brand Switches?

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Users can access link rate, duplex mode, and detailed diagnostic information by entering this command in the MikroTik switches. This CLI command shows the transceiver''s Digital Optical

Monitoring Interfaces and Transceivers Using ethtool

The output of ethtool swpXX shows the port settings stored in the kernel. The switchd process keeps the hardware and kernel in sync for the important port settings (speed, auto-negotiation, and link

Checking and setting the port speed on a Cisco switch

You can check the port speed on a Cisco network switch from its command-line interface (CLI) by logging into the switch and then issuing the show interface command. If you want to see the

How To Find Your Network Switch Port Speed Settings From PC

In this guide, we will explore the step-by-step methods for checking network switch port speed settings on both Windows and Mac operating systems.

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Test your broadband speed

If you''ve disconnected and double-checked all of the things that could affect your test result, but your broadband speed still seems unusually slow, you should do

How to Check SFP Optical Power Levels on Cisco Switches

Learn how to monitor SFP optical power on Cisco switches, interpret Tx/Rx levels, and troubleshoot fiber link issues. Step-by-step CLI commands, model-specific guidance, and best practices included.

Network Devices

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4. Switch A switch is a high-speed networking device that connects devices (computers, printers, servers) within a Local Area Network (LAN), Unlike hub, switch learns the MAC address of

View the Optical Module Status on a Switch through the Command

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, you should be able to view the current information for the optical connection, which helps

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How To Find Your Network Switch Port Speed Settings From PC

Introduction Understanding the speed settings of your network switch ports is crucial for optimizing network performance and troubleshooting connectivity issues. Whether you are a tech

How to View Optical Module Status on a Cisco Switch via CLI ...

In this Cisco Tech Talk, learn how to view the optical module status on a Cisco switch using the Command Line Interface (CLI). This video demonstrates how to access the optical module

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