How to check optical modules in Cisco



Overview

This article provides instructions on how to view the Optical Module Status on your switch through the Command Line Interface (CLI).

Key Takeaways

You can view Cisco optical module (SFP) information using either the web-based utility or CLI commands to check module type, serial number, vendor, and diagnostic metrics like Tx/Rx power, temperature, and voltage.

Using the Web-

Based Utility

Log in to your Cisco switch's web interface. Navigate to Status and Statistics > Diagnostics > Optical Module Status (example: SG350X-48MP switch). Select the switch and port from the drop-down list and click Go.

The page displays: Port: Port number of the SFPDescription: Optical transceiver descriptionSerial Number & PID/VID: Identification of the moduleTemperature, Voltage, Current: Operating metricsOutput/Input Power: Transmit and receive optical powerTransmitter Fault & Loss of Signal: Status indicatorsData Ready: Operational status This method is useful for monitoring module health and troubleshooting fiber connections.

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Using CL

I CommandsSSH or console into the switch. Run the following commands depending on your Cisco platform and IOS version:show interface: Displays port link status, negotiation speed, and transceiver type.show interface status: Lists all ports with their operational status.show inventory: Lists installed hardware including SFP modules with PID, VID, and serial number.show interfaces transceiver detail or show interface transceiver detail: Reads DOM/DDM metrics such as Tx/Rx power, temperature, voltage, and bias current.show idprom interface or show idprom transceiver extended: Retrieves EEPROM/vendor information.show logging: Checks for unsupported transceiver messages or errors.

Optional tests:test interface transceiver (if supported) to verify module functionality. Monitor error counters via show interface to detect CRC or input errors indicating cable or connector issues.

Key Notes

Ensure the SFP module is supported by your Cisco switch; unsupported modules may show errors.

CL

I commands provide more detailed diagnostic data than the web interface, including real-time optical power and temperature. Both methods help in inventory management, troubleshooting, and verifying module compatibility. By following these steps, you can effectively monitor and manage Cisco optical modules, ensuring reliable fiber connectivity and early detection of potential issues.

Article Content

View the Optical Module Status on a Switch through the Command

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

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

Optical Transceiver Manufacturer,How to check optical module ...

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We will introduce how to query the information of optical module on Cisco switch. First, we need to connect to the network, and then log on to the management platform of Cisco switch.

Cisco SFP Commands Cheat Sheet: Check Status & Troubleshoot

Learn how to check SFP module health on Cisco switches. This guide covers essential CLI commands (show inventory, DOM), fixes for "unsupported transceiver" errors, and interpreting optical power levels.

Mastering Cisco Optics: Understanding TX/RX Light Levels

Stop guessing your fiber health. Discover how to use Cisco DOM commands to measure real-time TX/RX light levels and ensure your optical network is stable.

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).

Cisco Command to Check SFP Module Details

For network engineers, knowing how to view and interpret SFP information from the Cisco command-line interface (CLI) is essential. By checking module health, compatibility, and digital

How to Use Cisco Command to See SFP Module Details?

Check your device model and software version (show version), then consult Cisco''s compatibility matrix to choose supported SFP modules matching your network requirements.

How to Test Cisco Transceivers: NX-OS Compatibility Guide

Master Cisco transceiver testing with NX-OS CLI commands. Step-by-step guide for compatibility checks, diagnostics, and troubleshooting network issues.

How to Test Optical Transceiver Modules: Methods, Metrics & Best ...

Learn how to test optical transceiver modules using power meters, BERT testers, and DDM tools. Ensure compatibility, performance, and reliability in data center and enterprise networks.

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules

Prominent feature Cisco 800G ZR/ZR+ coherent optics modules deliver high performance and low power in QSFP-DD and OSFP form factors. They are an optimal choice to extend Cisco Routed

QSFP-DD Optical Transceivers for High-Speed

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QSFP-DD800 modules enable higher radix for next-generation network designs and provide super-high-density connections over copper, single

SFP Optical Transceiver Modules for Long Distance: A Complete

Use an optical power meter to verify actual fiber attenuation. 2. Check Compatibility with Switch/Router Brand While third-party modules offer cost benefits, always verify DDM (Digital

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent

These digital coherent optics modules enable 800G traffic over amplified DWDM links up to 120 km for 800ZR and over 1000 km for 800G ZR+.

Future Trends in the Optical Modules Market 2026-2033 ...

The "Optical Modules Market" has experienced impressive growth in recent years, expanding its market presence and product offerings. Its focus on research and development

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

Cisco Serial Number Guide: Find SN, PID & Warranty Info

Learn where to find a Cisco serial number, what SN, PID, BOM, SmartNet and warranty status mean, and when to use a Cisco serial number

Cisco-compatibele optische modules catalogus

SAMENVATTING Dit document dient als de definitieve technische referentie voor de Cisco Compatible Optical Modules Catalog, met een uitgebreid portfolio van Small Form-Factor Pluggable (SFP),

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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