

How to determine the optical module of a switch



AI Overview

You can check the optical module status, health, and diagnostics using CLI commands or web-based utilities to view metrics like Tx/Rx power, temperature, voltage, and module information.

Checking Optical Module on Cisco Switches

- Verify Port and Module Status** Use `show interface status` to confirm the interface is up and connected. Use `show inventory` to check if the switch detects the SFP module, including part number (PID) and serial number (SN).
- View Detailed Transceiver Information** Run `show interfaces transceiver detail` or `show interface transceiver detail` to see:
 - Tx Power (dBm) – strength of transmitted light
 - Rx Power (dBm) – strength of received light
 - Temperature (°C)
 - Voltage (V)
 - Laser Bias Current (mA)This helps detect degraded performance or potential failures.
- Check Module Identification** Use `show idprom interface` or `show idprom transceiver extended` to read EEPROM/vendor info, including module type, serial number, and compatibility.

Web-Based Utility (for SMB switches)

- Log in to the switch's web interface.
- Navigate to **Status and Statistics > Diagnostics > Optical Module Status**.
- View port number, description, serial number, PID, temperature, and voltage.

Checking Optical Module on Huawei Switches

- Display Module Information** Run `display transceiver [ interface interface-type interface-number | slot slot-id ] [ verbose ]` to view module details.
- Use display transceiver diagnosis** interface for digital diagnostic monitoring (DDM) metrics like optical power, temperature, voltage, and current.
- Verify Compatibility** Ensure the module is Huawei-certified to avoid installation or data bus issues.
- Check that local and remote modules** have the same wavelength to prevent link failures.

Troubleshooting

- If optical power is low or high, inspect fiber connections, clean or replace connectors, and verify fiber length.

Key Considerations

- Digital Optical Monitoring (DOM/DDM) is essential for real...

Article Content

Teach you to read the DDM information of the optical module on the ...

Today, ETU-LINK will introduce how to query the information of optical module on Huawei switch. Next, we will introduce the query instructions of relevant parameters of optical

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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 you manage

Displaying Optical Module Information

Obtain the electronic label of the optical module and contact Huawei technical support personnel to confirm whether it is a Huawei-certified switch optical module.

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).

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...

How to Choose the Right Optical Transceiver in 2025

When building or upgrading a network, many IT managers focus on switches, routers, and access points—while overlooking one critical piece of the puzzle: the optical transceiver. These small

Optical Transceiver Manufacturer,How To Check Optical Module ...

Optical module identification and status monitoring are essential daily tasks for network engineers maintaining Cisco switching systems. This guide provides complete, step-by-step 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

Huawei Optical Switch View Optical Module Commands

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as follows: ... View the general, manufacturing, alarm, and diagnostic

How To View Port Status And Optical Module Information On Cisco Switches

Optical modules work on the switch usually need to read the internal information of the module to understand its working status, such as module connection and real-time collection of light,

How To View Port Status And Optical Module Information On Extreme

This document uses the Moduletek SFP-10G-LR-BIDI optical module installed on an Extreme X690-48x-2q-4c switch as an example to demonstrate how to view port status and optical

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

Optical Transceiver Manufacturer,How To Check Optical Module ...

This paper introduces the models of some optical modules, which is helpful for us to understand the parameter information of optical modules, so as to facilitate the purchase in the future.

View the Optical Module Status on a Switch

This article provides instructions on how to view the Optical Module Status on your switch.

View the Optical Module Status on a Switch

Article ID:5508 View the Optical Module Status on a Switch Objective The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in

How To Read Optical Module Information On Brocade Fibre Channel

Reading module information also helps verify encoding compatibility between the optical module and the switch. This article introduces how to check the working status and internal

Checking the Optical Module Type

For the Huawei-certified optical modules, Huawei has added Huawei logo and identifier and changed the vendor information in the product label and optical module information into HUAWEI. When an

View the Optical Module Status on a Switch

Objective The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their optical modules to connect fiber-optic cables. Once the transceiver and

Contact Us

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