

Check if the port has an optical module



AI Overview

You can verify recognition of an optical module by checking the port status, module information, and optical power levels through CLI commands or device management interfaces.

Step 1: Verify Module Recognition via CLI

Huawei devices: Use the `display this interface` or `display interface GigabitEthernet x/x/x` command to view port information. If the module is recognized, the output will show the module type, rate, wavelength, and whether it is certified. A certified module will display YES in the Certified field.

Cisco devices: Log in to the switch console and use the `show fiber-ports-optical-transceiver` command. The output will display port number, temperature, voltage, current, transmitted (Tx) and received (Rx) optical power, and Loss of Signal (LOS) status. If the module is recognized, these fields will populate with valid readings.

Step 2: Check Optical Power Levels

Ensure that transmit (Tx) and receive (Rx) optical power are within the module's specified range. Abnormal Tx power may indicate a faulty module, while abnormal Rx power may indicate issues with the peer device or fiber link. You can also use a handheld optical power meter to measure actual optical power for verification.

Step 3: Confirm Port Status

Check if the port is UP and transmitting/receiving data. Commands like `show interface brief` (Cisco/Huawei) can indicate whether the port is operational. If the port is not UP, verify rate and duplex settings on both ends, and ensure the fiber type matches the module (single-mode vs multimode).

Step 4: Troubleshoot if Not Recognized

Replace the optical module with a known working one to isolate the issue. Check the interconnection port configuration on the peer device, including auto-negotiation settings. Inspect the fiber for damage or improper connection, and test with a loopback if necessary. By following these steps, you can confirm whether the optical port has recognized the module and ensure proper operation of the fiber link.

Article Content

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

Distinguish Optical ports through CLI

Hello, How can I distinguish if a port is optical or electrical through the CLI? If the port type says Gi1/2 it can be from both types. Is that right? I am in a Cisco 7200 and Cisco 7600 CLI. If I

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By clicking download, will open to start the export process. The process may take but once it finishes a file will be downloadable from your browser. You may continue to browse the DL while the export

port is disconnected due to optical module faulty

As per checked the log, it was found that the host port was disconnected, This alarm indicates the port and switch has been disconnected. Hence, we would advise you to perform cross

Displaying Optical Module Information

Run the display transceiver diagnosis interface [interface-type interface-number] command to view diagnostic information about a specified optical module. This command displays the digital diagnostic

Optical module common faults and solutions

If the transmit optical power is in the critical value, then replace the optical fiber and optical module as cross-checking, and if the receive optical power is in the critical value, then check

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

How to View Optical Module & Media Converter Details In the second step, in the privileged exec mode of the switch, enter the following command to display the fiber optic media

How To View Optical Transceiver Information On Network

Optical transceivers can be used on switches, routers and network adapters (fiber network cards). Special commands are applied to check transceiver data on switches, and Linux

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

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 View Port Status And Optical Module Information On Juniper ...

Reading internal transceiver data helps monitor link status, optical power, temperature and coding compatibility between modules and switches. We use Moduletek SFP-10G-LR

Troubleshooting Optical Module Issues

Check whether the transmit optical power and receive optical power of the optical module are within the normal range. If the transmit optical power is beyond the normal range, replace the

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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.

Optical Module Application: Common Problems & Troubleshooting

1. Check compatibility between the optical module and switch Most switch brands have specific compatibility requirements, especially when using third-party optical modules. First verify that

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 Test an SFP Transceiver and Network Cable

Recently we have been getting questions about how to determine if an SFP (Small Form-factor Pluggable) transceiver is working. We refer to SFP generically here to represent a multitude of the

Optical Module: Typical Optical Module Troubleshooting Procedure

Check the model of the faulty optical module. If it is not a Huawei-certified optical module, replace it with a Huawei-certified optical module. If the optical module is installed on a GE port, run the display

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).

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.

Checking the Optical Module Type

The selected optical modules must be supported by the optical interfaces. Check whether the optical module used on the switch is certified by Huawei switches. For the Huawei-certified optical modules,

Troubleshooting Optical Module Issues

Troubleshooting Optical Module Issues Symptom An optical port cannot go Up. The optical module cannot be properly identified and optical module information cannot be obtained. After

How to check and solve the optical module failure?

Step 3: check whether the optical module itself fails or the adjacent equipment or the intermediate link fails. The port, optical module, etc. can be replaced to carry out cross validation.

How To View Port Status And Optical Transceiver Information

Run command: get switch modules status It shows real-time DDM values and alarm thresholds. Check TX/RX optical power, temperature and bias current to verify operation status of

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