

Checking the optical port signal on a Huawei switch



Article Overview

Use Huawei commands like display transceiver and display interface to monitor optical port signals, RX/TX power, and transceiver status.

Viewing Optical Module Information

To check the optical port signal and transceiver details:

- All optical ports: Run display transceiver to view information for all optical modules on the switch, including type, connector, wavelength, transfer distance, and vendor details .
- Specific port: Run display transceiver interface to view details for a single port. Adding the verbose parameter shows receive (RX) and transmit (TX) power, temperature, voltage, and bias current . Example output includes:
 - RX Power (dBm) – current received signal strength
 - TX Power (dBm) – current transmitted signal strength
 - High/Low thresholds for RX/TX power
 - Temperature and voltage of the module

Checking Port Link and Status

- Use display interface to check link status, port rate, transceiver type, and traffic statistics.
- display interface brief shows a summary of all ports, including UP/DOWN status .

Article Content

Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module

How to Check SFP Power in Huawei Switch? Is Your Network

If your network feels sluggish or devices mysteriously disconnect, the culprit might be smaller than you think—buried inside your

Huawei S Series Campus Switches Troubleshooting Guide (V100 and

Why Cannot Connected Optical Ports Go Up After Single-Fiber Bidirectional Optical Modules Are Used? How Do I Ensure that the

Optical Module Troubleshooting

Check whether an optical module that is certified for Huawei data center switches is installed on the optical interface.

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

Typical Troubleshooting Cases of Optical Module

Check whether the information is consistent with the optical module specifications provided in the product documentation. (For

Checking the Receive and Transmit Optical Power

If they are damaged, replace them. If the receive optical power is high (Current RX Power has a larger value than Default RX Power

Checking TX / RX optical power for Huawei Switches and Routers

Checking TX / RX optical power for Huawei Switches and Routers Here is an example on how to query or display optical power of an

Troubleshooting S Series Switch Port and Interface Problems

When connecting two devices, check whether optical modules match optical interfaces, whether optical modules match fiber models,

Checking the Interface Status and Configuration Parameters

Check the status and configuration parameters of the interfaces on the two ends. Ensure that the interfaces run properly and have

Checking Whether the Switch Port Status Is Normal

If the negotiation fails, the switch and the IPC are interconnected with the lowest speed. Currently, the IPC port is a 100 Mbit/s

OLT's Upper-Layer Network Is Faulty

Check fiber quality on the upper-layer network. Ping the network IP from the OLT. If packets are lost, perform the following

Checking the optical attenuation of Huawei switches

Run the display transceiver [interface interface-type interface-number | slot slot-id], to view the information on the optical module

Troubleshooting for Optical Modules on Huawei Switch

Check whether the fiber length between the two ports is within the maximum transmission range of the optical modules on the ports.

Troubleshooting for Optical Modules on Huawei Switch

If the transmit power remains low, replace the optical module or install it in another optical port to check whether it is faulty. If the

How To Check If Interconnected Optical Ports Cannot Go Up?

Run the display device command to check the switch model. Different optical interfaces may support different types of optical

Checking TX / RX optical power for Huawei Switches and Routers

Here is an example on how to query or display optical power of an interface in a Huawei Router. This is tested using NetEngine40E

Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, contact Huawei technical

How Do I Check the Interface or Port Status?

Checking Service Interface Indicators to Determine the Interface Status Observe service interface indicators to quickly identify the

Contact Us

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