

How to debug an optical module switch



Summary of Content

Debugging an optical module involves checking port status, reading diagnostic metrics like Tx/Rx power, temperature, voltage, and verifying module compatibility with the switch.

Step 1: Access the Switch CLI

- Log in to the switch console via SSH, Telnet, or direct console. Use the appropriate credentials for privileged EXEC mode on Cisco or equivalent access on other vendors ().

Step 2: Verify Port and Module Status

- Cisco: Use `show interface` to check link state, speed, duplex, and traffic statistics. Use `show interface status` to list all interfaces and confirm the module is recognized ().
- Huawei: Use `display transceiver [interface]` to view module information and `display transceiver diagnosis interface` for diagnostics ().
- Extreme EXOS: Use `show ports`

`transceiver` or equivalent to display optical module details ().

Step 3: Read Diagnostic Metrics (DOM/DDM)

- Check Tx Power, Rx Power, Temperature, Voltage, and Bias Current to ensure the module operates within specifications ().
- Compare measured values against the module datasheet to detect attenuation, overheating, or underpowered signals.

Article Content

Optical Module Debugging Guide

1. Document Purpose The purpose of this document is to introduce the debugging steps and commands for optical modules used

Displaying Optical Module Information

Run the display transceiver diagnosis interface [interface-type interface-number] command to view diagnostic information about a

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

Extreme Switch

When working with Extreme EXOS switches, it's often necessary to check the details of the optical transceivers

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

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

View the Optical Module Status on a Switch

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

How to View Optical Module Parameters

If an optical module is installed in a running device, you can run the display transceiver command to view parameters

View the Optical Module Status on a Switch

Log in to the web-based utility of your switch then choose Status and Statistics > Diagnostics > Optical Module

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

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