Huawei Firewall



Overview

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

Key Takeaways

Use the display transceiver and display transceiver diagnosis commands to view detailed optical module information, including status, DDM metrics, and certification details.

Checking Optical Module Status

To view the basic status of an optical module on a Huawei device, run: CodeCopydisplay interface This command shows the interface rate, module type, link status (UP indicates normal operation), and traffic statistics, which are useful for troubleshooting link issues. If you are unsure of the interface, you can first run: CodeCopydisplay interface brief to list all interfaces and their types and numbers.

Viewing Detailed Optical Module Information



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For comprehensive information, including manufacturer, wavelength, and transmission distance, use: CodeCopydisplay transceiver [interface | slot] [verbose] This command provides general, manufacturing, alarm, and diagnostic information of the optical module. Key parameters include: Transceiver Type (e.g., 1000_BASE_SX_SFP)Connector Type (e.g., LC)Wavelength (nm)Transfer Distance (m)Digital Diagnostic Monitoring (DDM) availabilityVendor Name and Part NumberSerial Number and Manufacturing DateTemperature, Voltage, and Bias Current with high/low thresholdsRX/TX Power with thresholds for alarms Viewing Diagnostic Data (DDM)To check real-time diagnostic metrics such as optical power, temperature, voltage, and current, run: CodeCopydisplay transceiver diagnosis interface This command displays DDM information, which helps monitor module health and detect potential issues like power exceeding thresholds or abnormal temperature.

Proper interpretation ensures the module operates within safe limits. Certified vs Non-Certified ModulesHuawei recommends using Huawei-certified optical modules because they are tested for installation, signal quality, fault tolerance, EMC, and environmental performance. Non-certified modules may: Fail to fit properly in interfacesCause data bus errorsDamage electronic components due to nonstandard connectorsGenerate inaccurate diagnostic readings Always verify module certification to ensure reliable operation and accurate monitoring.

Summary

Use display interface to check link status and traffic. Use display transceiver for detailed module information. Use display transceiver diagnosis to view DDM metrics.

Prefer Huawei-certified modules to avoid compatibility and reliability issues. These commands provide a complete view of the optical module's operational status, helping with troubleshooting, maintenance, and performance monitoring on Huawei firewalls and switches.

Article Content

Troubleshooting Optical Module Issues

You can run the display this interface command in the interface view on the firewall to check the port information to see whether the transmit optical power and receive optical power are

Displaying Optical Module Information

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

Huawei Optical Switch View Optical Module Commands

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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 Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

Huawei Switches Viewing Optical Port Receiving and Sending

Use the command display transceiver to view the optical module information of all optical ports, and use the command display transceiver interface interface-type interface-number to view the

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

HUAWEI USG6000E SERIES HARDWARE MANUAL

This includes maintaining proper ventilation, grounding, and ESD precautions. Huawei also recommends using Huawei optical modules to avoid incompatibility

Troubleshooting for Optical Modules on Huawei Switch

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. ...

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

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Displaying Optical Module Information

What Is the Impact of Using Non-Huawei-Certified Optical Modules? Huawei-certified optical modules have been tested to the highest standards to ensure their quality. Tests include the installation and

Understanding Optical Modules

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On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the receiver needs to convert received optical signals into electrical signals.

How to View Optical Module Parameters

Viewing the Hardware Description If you know the model or type of an optical module, you can view the section "Pluggable Modules for Interfaces" in the Hardware Description to look up parameters of the

Cisco Command to Check SFP Module Details

Learn Cisco commands like show inventory and show interface transceiver detail to monitor SFP modules, DDM metrics, and compatibility.

Understanding Optical Modules

10GE SFP+ Copper Modules Accessories Understanding Optical Modules What Is an Optical Module Types of Optical Modules Parameter Description How to View Optical Module Parameters Rules for

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 elabel and optical module information into HUAWEI. When an

Introduction of Optical Modules on Huawei Switches

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