How to view optical module information on Huawei devices

Overview

Displaying Optical Module Information This document describes the principles and configurations of the Device Management features, and provides configurati.

Key Takeaways

Use Huawei commands like display transceiver and display transceiver diagnosis to view optical module information, status, and diagnostics.Viewing Optical Module Information
• Display All Optical Modules
• Command: display transceiver

• This shows information for all optical ports, including transceiver type, connector type, wavelength, transfer distance, vendor, and digital diagnostic monitoring (DDM) support .

• Display a Specific Optical Module
• Command: display transceiver interface

• Example: display transceiver interface GigabitEthernet 0/0/1

• Provides detailed information for a specific port, including temperature, voltage, bias current, RX/TX power, and manufacturing details .

• Verbose Mode for Detailed Diagnostics
• Add the verbose parameter to view receive and transmit power, voltage, temperature, and other real-time metrics.

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• Example: display transceiver interface GigabitEthernet 0/0/1 verbose .

Diagnostic Commands
• Check Module Health
• Command: display transceiver diagnosis interface

• Displays digital diagnostic monitoring (DDM) data to help identify faults or abnormal readings such as low/high optical power, voltage, or temperature .

Additional Tips
•

Port Status

• Use display interface to check link status, port rate, and traffic statistics. A link status of UP indicates normal operation .

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Huawei-Certified Modules

• Ensure modules are Huawei-certified to avoid compatibility issues. Non-certified modules may not provide full diagnostic data .

•

Common Metrics to Monitor

• Temperature (°C)

• Voltage (V)

• Bias Current (mA)

• RX/TX Power (dBm)

• Wavelength (nm)

• Transfer Distance (m) By using these commands, you can effectively monitor, troubleshoot, and verify the operational status of optical modules on Huawei switches and routers.

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Article Content

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Learn how to display optical module information on Huawei devices using specific commands and understand the

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Next, we will introduce the query instructions of relevant parameters of optical module, and view the DDM information

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Procedure View the optical module parameters on the package or run the display transceiver command to query optical module

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