How to inspect Huawei optical modules

Article Overview

Use Huawei switch commands like display transceiver and display interface to inspect optical modules, check status, and view diagnostic information.

Step 1: Verify Interface and Module Status

First, identify the interface where the optical module is installed. Run:

display interface brief
This command lists all interfaces, their types, numbers, and link status. Ensure the interface is UP, as a down interface may indicate a module or connection issue .

Step 2: Display Optical Module Information

To view detailed information about a specific optical module, use:

display transceiver interface
This command provides key details such as transceiver type, connector type, wavelength, transfer distance, vendor, serial number, and manufacturing date .

For all optical ports on the switch, simply run:

display transceiver
This shows a summary of all connected modules .

Step 3: View Diagnostic Data (DDM)

To check real-time operational parameters like receive/transmit power, temperature, voltage, and bias current, add the verbose parameter:

display transceiver interface verbose
This helps monitor module health and troubleshoot link issues .

Step 4: Run Diagnostics

Huawei switches allow running diagnostics on optical modules:

display transceiver diagnosis interface

This command provides diagnostic parameters to detect faults or abnormal behavior .

Step 5: Use Certified Modules

Always use Huawei-certified optical modules. Non-certified modules may not provide accurate information, can cause data bus errors, or damage the interface due to nonstandard sizes .

Step 6: Additional Checks

o Determine if the module is single-mode or multi-mode.
o Check optical attenuation and signal transmission quality.
o Monitor alarms and environmental parameters to ensure proper operation .

By following these steps, you can effectively inspect, monitor, and troubleshoot Huawei optical modules, ensuring reliable network performance.

Huawei"s StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios,

You can use the display commands to view information about the optical module on an interface, including

Optical modules are hot swappable, and you do not need to power off the switch when replacing optical modules. Optical modules

Replacing an Optical Module Context Never look directly into an optical module or the ends of optical fibers. Optical modules and

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

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as

Check whether an optical module is a bogus one. An optical module delivered by Huawei is uniquely identified by an SN. If two or

Therefore, you can check whether an alarm is generated to determine whether an optical module is officially delivered

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When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module

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The device must use optical or copper modules recommended on the configurator because non-Huawei-certified optical or copper

How Can I Determine Whether an Optical Module Is a Huawei-Certified Switch Optical Module? Obtain the electronic label of the

Replacing an optical module interrupts service transmission on the corresponding interface. Therefore, replace an optical module

Huawei routers must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission

Introduction of Optical Modules on Huawei Switches On an optical network, a sender needs to convert electrical signals into optical

Replacing an optical module interrupts services. Ensure that the optical module is faulty before replacing it. Only external optical

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