Huijue checks the optical module speed



Overview

If an optical module that is not certified for Huawei data center switches is used, replace it with an optical module that is certified for Huawei Ethernet switches.

Key Takeaways

You can check the speed of a Huawei optical module using the display transceiver or display interface commands in the CLI.

Using the CLI to Check Module Speed

Display Transceiver Information

Run the command: display transceiver interface This command shows detailed information about the optical module installed on a specific interface, including its supported speed, type, vendor, wavelength, and DDM parameters such as temperature, voltage, and optical power. Example: display transceiver interface xgigabitethernet0/0/2 verbose This will display all relevant details for the module on port 0/0/2, including whether the module is compatible with the interface speed.

Check Interface Status

Use the command: display interface This shows the administrative and operational status of the port. If the interface speed is mismatched with the optical module (e.g., a 10G module on a 1G interface), the port may not come up or may show errors. Look for fields like Actual Cfg or Neg to confirm the negotiated speed between the module and the switch.

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Verify Module Compatibility

Ensure the optical module is Huawei-certified. Non-certified modules may not report speed correctly or may be limited in functionality. Avoid using a module with a higher rate than the interface supports, as this can prevent the port from establishing a link.

Optional Diagnostics

For deeper analysis, run: display transceiver diagnosis interface This provides digital diagnostic monitoring (DDM) data, which can help verify that the module is operating within normal parameters and confirm its speed indirectly through signal quality and link status.

Summary

To check the optical module speed on Huawei devices: Use display transceiver for module details and speed. Use display interface to confirm the port's operational speed. Ensure module compatibility with the interface to avoid mismatches.

Optionally, use display transceiver diagnosis for detailed diagnostics and DDM monitoring. Following these steps ensures accurate verification of optical module speed and proper operation on Huawei switches.

Article Content

Huijue module automatically shuts down optical port

If an optical module that is not certified for Huawei data center switches is used, replace it with an optical module that is certified for Huawei Ethernet switches.

Huijue Optical Module Test Report

In this article, ETU-LINK will reveal the important tests that high-quality optical modules must pass, and the impact of these test results on the quality of optical modules.

Huijue checks optical module specifications

This guide dives into the key SFP Optical Module Specifications that engineers, network architects, and procurement professionals rely on when evaluating optical transceivers.

HUIJUE OPTICAL MODULE OPTICAL POWER ADJUSTMENT

Optical modules are widely used in switches, network interface cards (NICs), routers, and other communication devices. During use, reading optical module information helps understand its real

Huijue Optical Module Threshold Parameters

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Check the diagnostic information, which shows that the received optical power is low, with a threshold of -3 to -23. Troubleshoot the link, and if the link is normal, replace the optical. You can set optical

Huijue Switch Optical Module Hacking

Obtain the electronic label of the optical module and contact Huawei technical support personnel to confirm whether it is a Huawei-certified switch optical module.

How to view the optical module DDM information?

DDM provides detailed information about the optical module''s performance and status, allowing network administrators to monitor and troubleshoot network issues. In this article, we will

Where are the optical modules in the Huijue switch

For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description.

Optical module common faults and solutions

Step 2 Check whether the rate and duplex mode of the device port and the optical module match - execute the "show interface brief" command to check, if they do not match, configure

Optical Module Application: Common Problems & Troubleshooting

Based on typical issues encountered with optical modules in daily switch applications, this document summarizes basic troubleshooting steps for resolving common faults:

Troubleshooting for Optical Modules on Huawei Switch

When this optical module uses OM3 multimode optical fibers, its transmission distance is 0.3 km. The optical modules used on both ends must have the same transmission speed, and the interface

Optical Module: Typical Optical Module Troubleshooting Procedure

Optical Module: Typical Optical Module Troubleshooting Procedure Check the model of the faulty optical module. If it is not a Huawei-certified optical module, replace it with a Huawei-certified optical module.

China How to Solve the Failure of the Optical Module

When using an optical module, you will encounter a variety of failure problems more or less, such as whether the optical module model is selected

What Is an Optical Module and Its FAQs (V200)

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What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

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

How to check the signal strength of the SFP optical module?

This function is useful for viewing detailed information about SFP optical modules, including speed, serial number, part number, and receiving/sending direction optical signals strength.

How to check and solve the optical module failure?

Step 3: check whether the optical module itself fails or the adjacent equipment or the intermediate link fails. The port, optical module, etc. can be replaced to carry out cross validation.

HUIJUE OPTICAL MODULE OPTICAL POWER ADJUSTMENT

Checking the optical module type using Huijue C300 Run the following command to view interface information: display interface The output includes interface rate,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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