Check the Huijue port optical module



Overview

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal choice for building an all-optical campus network.

Key Takeaways

To check a Huawei switch port optical module, verify its status, power levels, certification, and link functionality using display commands and diagnostic tests. Step 1: Verify Port and Module InformationRun the command display interface to view the port status, interface rate, module type, and link state. The link should be UP for normal operation.

If you are unsure of the interface number, use display interface brief to list all interfaces and their types. Step 2: Check Optical Module DetailsUse the command display transceiver interface to view detailed optical module information, including: Transceiver type and connector typeWavelength and transfer distanceVendor and serial numberDigital Diagnostic Monitoring (DDM) statusReceive (Rx) and transmit (Tx) power levels For more detailed power information, add the verbose parameter: display transceiver interface verbose. Step 3: Verify Certification and CompatibilityRun display esn interface to check if the module is Huawei-certified.

Certified modules show YES in the Certified field. Non-certified modules may work but are less reliable. Ensure the optical module matches the port type and speed (e.g., do not use a 10G module on a 1G port) and that single-mode and multimode fibers are not mixed.

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Step 4: Measure Optical PowerCheck that the transmit and receive optical power are within normal ranges. Abnormal Tx power may indicate a faulty module, while abnormal Rx power could indicate a problem with the peer module or fiber link. Step 5: Perform Loopback or Self-TestTo confirm port functionality, perform a loopback test by connecting the fiber jumper to the same module.

If the port goes UP, it is functioning normally. If not, try another port to isolate the fault. Step 6: TroubleshootingReinstall the optical module to see if the fault resolves.

Check port configuration, such as auto-negotiation. Replace the module if it is faulty or non-certified. If the issue persists, reboot the switch or power cycle it, and verify the software version with display version.

Following these steps ensures that the optical module is correctly installed, certified, and operating within normal parameters, helping maintain stable network connectivity.

Article Content

Configure the optical ports of Huijue switches

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal choice for building an all-optical campus network.

How to use the optical port on a Huijue switch

How to use the optical port on a Huijue switch This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

Checking the optical port status of Huijue switches

Check whether the optical module used on the switch is certified by Huawei switches. For the Huawei-certified optical modules, Huawei has added Huawei logo and identifier and changed the vendor

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.

Checking optical and electrical ports on Huijue switches

ABC Stimulo Photonics designs and manufactures fiber optic cables, optical transceivers, ODF frames, data center cabling solutions, MPO/MTP components, and FTTH equipment for telecom, data

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Displaying Optical Module Information

Remove and install the fiber and optical module to ensure that the fiber and optical module are properly connected. Check whether the fiber connector is damaged or dirty.

How to use the optical port on a Huijue switch

If an optical module is installed in a running switch, you can run the display transceiver command to view parameters of the optical module, including the center wavelength, transmission distance, fiber types

Typical Troubleshooting Cases of Optical Module

Check whether the optical module is a Huawei-certified one. If not, replace it with a Huawei-certified optical module. If the optical module is installed on a GE port, run the display interface

Where are the optical modules in the Huijue switch

See the interface module via the optical display command information, including general information of the optical module, manufacturing information, and alarm information.

Checking Optical Attenuation on Huijue Optical Switches

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 optical module

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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. If the optical module is installed on a GE port, run the display

port is disconnected due to optical module faulty

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As per checked the log, it was found that the host port was disconnected, This alarm indicates the port and switch has been disconnected. Hence, we would advise you to perform cross

Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module quality. The functions include the installation and removal, transmit and

Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how to resolve issues encountered

How To View Optical Transceiver Information On Huawei Switches

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Checking the Optical Module

Procedure Check whether the firewall supports the optical module based on the model of the optical module inserted into the interface and hardware description in the product documentation. The

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