

Huawei switch cannot access optical port



Overview

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

Key Takeaways

Huawei switch optical port issues are often caused by module incompatibility, incorrect configuration, or hardware faults, and can be resolved through systematic checks and diagnostics.

- **Optical Module Compatibility:** Ensure the optical module matches the switch port type and fiber type. Single-mode modules must be used with single-mode fiber, and multimode modules with multimode fiber. Avoid using modules with a higher rate than the interface supports (e.g., 10G module on a 1G port) .
- **Port Configuration:** The port may be administratively down or misconfigured. Use the command display interface to check the port status. If it shows "Administratively DOWN," enable the port .
- **Optical Power Issues:** Low transmit or receive power can prevent the port from going up. Use an optical power meter to measure the module's transmit and receive power and ensure it is within the normal range .
- **Non-Huawei Certified Modules:** Third-party or non-certified modules may not be recognized. Replace with Huawei-certified modules if necessary .

- **Physical Installation:** Improper insertion or contamination of the optical module can cause failure. Ensure the module is correctly seated, clean the optical bores, and use dust plugs on idle ports .

Diagnostic Steps

- **Check Port and Module Status:** Run display interface and display transceiver interface verbose to view link status, module type, and optical power .
- **Loopback Test:** Connect the fiber jumper to the same module to verify if the port can go up. This helps isolate the issue to the module or the fiber .
- **Reinstallation and Reboot:** Remove and reinstall the optical module, and if necessary, reboot the switch or power cycle it. Ensure the switch software is up to date (V100R006C01SPC100 or later recommended) .
- **Check Remote Port Configuration:** Verify auto-negotiation and other settings on the connected device to ensure compatibility .

Best Practices

- Always wear an antistatic strap when handling modules .
- Avoid mixing fiber types and module rates.
- Keep optical ports clean and covered when not in use.
- Use Huawei-certified modules to ensure proper operation. If the issue persists after these steps, contact Huawei technical support for further assistance .

Article Content

Troubleshooting S Series Switch Port and Interface Problems

When connecting two devices, check whether optical modules match optical interfaces, whether optical modules match fiber models,

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

Optical Module Solutions for Huawei S5700/S5720 Series Switches

Problem: All optical ports cannot be connected, and the indicator lights are not on.

Solution: To solve this problem,

Troubleshooting for Optical Modules on Huawei Switch

If the transmit power remains low, replace the optical module or install it in another optical port to check whether it is faulty. If the

Checking the Optical Module Type

The optical module cannot be installed in an optical interface because the optical module structure is non-standard. The structure

How To Check If Interconnected Optical Ports Cannot Go Up?

If the problem is not caused by the optical modules, fibers, or intermediate device, connect the switch to another interface or replace

Checking the Interface Status and Configuration Parameters

Access the interface view and run the undo shutdown command. If a message is displayed, indicating that the optical module is not

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

Optical Module Troubleshooting

Optical Modules on the Local and Remote Devices Cannot Communicate Fault
Description A switch is connected to a

Displaying Optical Module Information

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

Troubleshooting for Optical Modules on Huawei Switch

Troubleshooting for Optical Modules on Huawei Switch Many friends feedback that one problems occurred when using optical

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

Installing an Optical Module

When inserting an optical module to a port, hold the optical module horizontally. If the optical module cannot be completely inserted

OLT's Upper-Layer Network Is Faulty

Check fiber quality on the upper-layer network. Ping the network IP from the OLT. If packets are lost, perform the following

What Can I Do If a Message Is Displayed Indicating that an Optical ...

This field indicates whether the rate of the optical module installed on the port matches the port rate. For example, if a non-XGE

Port: Optical Ports on an AP Cannot Go Up

Use an optical fiber to perform a loopback test on the Huawei device. If the link goes Up, the Huawei device is working properly, and

port is disconnected due to optical module faulty

As per checked the log, it was found that the host port was disconnected, This alarm indicates the port and switch has

Checking the Working Modes

Procedure Run the display transceiver interface interface-type interface-number verbose command to view the optical

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