

Huawei switch optical port link failure



Article Overview

Optical port connection failures on Huawei switches are usually caused by hardware issues, incompatible optical modules, fiber mismatches, or incorrect port configurations.

Common Causes

- **Hardware Issues:** Faulty optical modules, damaged fibers, or defective switch ports can prevent the link from coming up .
- **Incompatible Optical Modules:** Using non-certified modules or mixing single-mode and multimode fibers can cause connection failures .
- **Port Configuration Problems:** Ports may be administratively shut down, or interface settings like speed, duplex, or negotiation mode may be inconsistent with the peer device .
- **Optical Power Issues:** Transmit or receive power outside the normal range can prevent the link from establishing .
- **Environmental Factors:** Contaminated optical bores, excessive distance, or improper cabling can also lead to failures .

Troubleshooting Steps

- **Check Port Status:** Use the command display interface brief to verify if the port is administratively up and check the PHY status .
- **Verify Optical Module Compatibility:** Ensure the module matches the switch model, fiber type (single-mode or multimode), and interface rate .
- **Inspect Optical Power:** Run display transceiver interface verbose to check transmit and receive power levels. Use an optical power meter if necessary .
- **Loopback Test:** Connect the fiber jumper to the same optical module to test the p...

Article Content

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How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices.

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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

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Troubleshooting an Interface Error-Down Event

The switch provides the link flapping protection function to resolve this problem. When an interface frequently

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How Do I Troubleshoot a Stack Setup Failure?

What Ports Can Be Used to Set Up a Stack Among CE Series Switches? Which Cables Can Be Used for Stack

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How to Master Huawei Switch Stacking: Best Practices and ...

Switch stacking is a cornerstone of modern network design, enabling simplified management, improved redundancy,

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Troubleshooting S Series Switch Port and Interface Problems

If a non-Huawei certified optical module is installed, replace it with a Huawei-certified optical module. Non-Huawei certified optical

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How To Check If Interconnected Optical Ports Cannot Go Up?

1. Checking the Optical Module Type Log in to the switch through Telnet or console port to check the switch model. Run the display

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Checking the Optical Fiber or Link

Checking the Optical Fiber or Link Procedure Check whether the transmit and receive optical fibers are correctly connected. If no, re

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Huawei NetTech TV

3. Eliminating Layer 2 Loops on S Series Switches 4. Troubleshooting a PoE Power Supply Failure on S Series Switches 5.

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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

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Troubleshooting Optical Module Issues

Troubleshooting Optical Module Issues Symptom An optical port cannot go Up. The optical module cannot be properly

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Fibre Channel Link Failure

Possible Causes Possible causes for a Fibre Channel link failure: The optical transceiver is faulty. The optical transceiver is

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Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

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TROUBLESHOOTING S SERIES SWITCH PORT AND INTERFACE PROBLEMS

This document describes how to check the switch interface or port status and how to locate an interface physically down fault and

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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

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Troubleshooting Interface Down Problems

If a fiber is not properly installed on an optical interface or an optical fiber link fails, ALS shuts down the laser to save energy and

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Troubleshooting Interface Down Problems

When the optical power of an interface falls below the default lower threshold, the interface is shut down. If there is no forwarding link

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Checking the Interface Status and Configuration Parameters

If a message is displayed, indicating that the optical module is not in position, remove and then properly insert the optical module. If

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Fibre Channel Link Failure

In a switch-based network, the rate of the switch is different from that of the Fibre Channel front-end port on the storage device or

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SME NETWORK S SWITCH TROUBLESHOOTING GUIDE

If an active link fails, the remaining active links automatically load balance the traffic evenly. This mode is recommended when the

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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

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Troubleshooting Interface Down Problems

If an optical module with an MPO connector is installed on an optical interface that is not split or an optical module with an LC

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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

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Optical Link Failure Troubleshooting: Switch-to-Switch (SMF/MMF)

Network link down? Learn how to troubleshoot optical link failures between network switches. Essential guide covers

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Port: After an Optical Fiber Is Inserted into an Optical Port on the AC ...

If an optical module supporting a long transmission distance is used for short-range transmission, the optical port

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Optical Interface FAQ: Transceiver Compatibility Guidelines for

Overview & Thematic ScopeThis FAQ addresses one of the most critical operational decisions for network engineers managing

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Troubleshooting for Optical Modules on Huawei Switch

When connecting switches through optical ports, pay attention to the following points: The optical modules used on both ends must

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Causes of an Interface Physically Down Event and Troubleshooting ...

Check whether the optical module of the interface is a Huawei-certified optical module. For the Huawei-certified

Contact Us

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