Huijue switch optical port displays down



Overview

Huijue switch optical port displays down This document describes how to check the switch interface or port status and how to locate an interface physically.

Key Takeaways

A Huawei switch optical port showing "down" can result from hardware faults, optical module incompatibility, cabling issues, or configuration mismatches.

Common Causes

Hardware Failures

Faulty switch cards, optical modules, or fiber cables can prevent the port from coming up. Environmental factors or physical damage to the port or module may also cause a down status.

Optical Module and Fiber Incompatibility

Mixing single-mode and multi-mode fibers or using an optical module with a higher rate than the port supports (e.g., 10G module on a 1G port) can prevent link establishment. Non-Huawei-certified modules may not function correctly and should be replaced with certified ones.

Configuration Issues

Port may be administratively shut down; check with display interface xgigabitethernet0/0/2 or the corresponding port command. Auto-negotiation, duplex, or rate mismatches between local and peer devices can cause the interface to remain down. Transceiver type mismatch can occur if the optical module type does not match the interface configuration, such as split-mode conflicts.

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Optical Power Problems

Low or abnormal transmit/receive power can prevent the port from coming up. Use an optical power meter to measure and verify the optical signal levels. Contaminated optical bores or faulty laser circuits in the module may also cause failure.

Troubleshooting Steps

Check Port Status

Run display interface to see if the port is administratively down or physically down. Verify the interface rate, wavelength, and module type match specifications.

Verify Optical Module and Fiber

Ensure the module and fiber type are compatible (single-mode vs. multi-mode). Perform a loopback test by connecting the fiber jumper to the same module to check if the port can go up.

Inspect and Clean Hardware

Clean optical bores with a cotton swab and use dust plugs on idle ports. Reinsert or replace the optical module if necessary.

Check Configuration

Ensure auto-negotiation, duplex, and rate settings are consistent with the peer device. Roll back any configuration changes if a new module was installed and the port fails to come up.

Software and Firmware

Verify the switch software version with display version and upgrade if needed to a version that supports the optical module. Reboot or power cycle the switch if the fault persists.

Contact Support

If all checks fail, contact Huawei technical support for further assistance. By systematically checking hardware, optical module compatibility, cabling, configuration, and software, most optical port down issues on Huawei switches can be identified and resolved.

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Article Content

Huijue switch optical port displays down

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

How to use the optical port on a Huijue switch

When the transmit/receive power of the optical ports is too high, optical modules on the ports may be damaged. In this case, connect an attenuator to the optical modules.

The optical port of the Huijue switch is not visible

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

Checking the optical port status of Huijue switches

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

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.

Troubleshooting | How to Handle Switch Interface Status DOWN ...

After inserting an optical module, the switch interface indicator does not light up, and the link cannot communicate normally. In device interconnection, this often indicates that the interface failed to start

What s wrong with the optical port on the Huijue switch

The first thing you should do is re-plug the optical module into the switch slot and make sure it is firmly inserted. If the problem persists, please check the compatibility of the optical module

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 restore the interface to the up state.

Checking Whether Ports Used for Stack Connections Are Up

Run the display interface brief command to check whether the ports used for stack connections are physically up, including stack physical member ports and SIP ports (applicable only to the CE12800).

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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

Troubleshooting S Series Switch Port and Interface Problems

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Troubleshooting Interface Down Problems

Troubleshooting Interface Down Problems This document describes how to troubleshoot the fault that an interface is down. An interface may go down in many situations. To check the interface status, run

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This Chocolate Babka recipe has a rich chocolate filling that is warm and comforting. Traditional babka cake is great for

What s wrong with the optical port on the Huijue switch

This alarm indicates the port and switch has been disconnected. Use the idle optical module on the storage device to exchange with PO and check. port is disconnected due to optical module faulty

How to send optical port information on a Huijue switch ...

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

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