Huawei switch optical port connection status

Overview

When connecting two devices, check whether optical modules match optical interfaces, whether optical modules match fiber models, and whether optical modules and fibers are connected correctly.

Key Takeaways

You can check the connection status of Huawei switch optical ports using commands like display interface and display transceiver to view link state, module details, and receive/transmit power.

Checking Optical Port Status

View Interface Status

Use the command display interface to check the physical and protocol status of a specific optical port. The output shows whether the interface is UP (active) or DOWN (inactive), along with traffic statistics and error counts. To see a summary of all interfaces, run display interface brief.

This provides a quick overview of which ports are up or down and their operational state.

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Check Optical Module Information

Use display transceiver to view information for all optical modules, including type, connector, wavelength, transfer distance, and vendor details. For a specific port, run display transceiver interface. Adding the verbose parameter provides detailed diagnostics such as receive power, transmit power, bias current, voltage, and temperature, which are critical for troubleshooting optical link issues.

Verify Link and Traffic

Ensure the interface physical status is UP. For Layer 2 interfaces, both physical and protocol status should be up for normal operation. For Layer 3 interfaces, protocol status depends on correct configuration and negotiation.

Check for packet errors, collisions, or bandwidth utilization using the display interface output. High error counts or mismatched negotiation modes may indicate fiber or module issues.

Troubleshooting Tips

If the optical port shows DOWN, verify: The optical module is properly seated and compatible with the switch. Fiber cables are correctly connected and not damaged. Peer device interfaces are operational and configured consistently.

Interface is not administratively shut down (undo shutdown command may be required),. Use display logbuffer to check interface logs for events indicating why a port went down. Environmental factors like temperature or voltage fluctuations can also affect optical port status.

By combining these commands and checks, you can effectively monitor and troubleshoot Huawei switch optical ports, ensuring proper connectivity and performance.

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, and whether optical modules and fibers are connected correctly.

How Do I Check the Interface or Port Status?

For example, if a Layer 3 physical interface is connected correctly, its attribute configuration is correct, and it is not configured with an IP address, its physical status and protocol status are up and down

How To View Optical Transceiver Information On Huawei Switches

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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 Port Status in Huawei Switch? Is Your Network Health ...

The port status on your Huawei switch acts like a real-time health monitor for your network. A single port flickering between UP and DOWN can cripple connectivity, slow workflows, or even expose security

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 display transceiver interface interface-type interface-number to view the

What are the common check commands for Huawei switches?

In the daily maintenance of Huawei switches, we need to use various inspection commands. Today, let''s take a look at the commonly used inspection commands related to port and

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 the switch to check whether the problem ...

Troubleshooting for Optical Modules on Huawei Switch

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. If this ...

Top 5 Huawei Display Commands That Make Network Management

It lists which VLANs are associated with each port, including whether the port is configured as trunk or access, and the port description. It is comparable to the show interface status

Checking TX / RX optical power for Huawei Switches and Routers

Here is an example on how to query or display optical power of an interface in a Huawei Router. This is tested using NetEngine40E Universal Service Router or NE40E running version 8.x OS.

Checking Whether the Switch Port Status Is Normal

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If the negotiation fails, the switch and the IPC are interconnected with the lowest speed. Currently, the IPC port is a 100 Mbit/s electric and optical port. The normal negotiation result should be full duplex

How To Check If Interconnected Optical Ports Cannot

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

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

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

Top 5 Huawei Display Commands That Make Network Management

Discover the top 5 Huawei display commands that simplify network monitoring and troubleshooting. Perfect for beginners and IT professionals looking to boost efficiency with Huawei CLI.

What are the common check commands for Huawei switches?

What are the commonly used inspection commands for Huawei switches? Many data in Huawei switches need to be queried using commands, and there are also many commonly used

Displaying Optical Module Information

The system may fail to obtain information about non-Huawei-certified switch optical modules or obtain incorrect information. You are advised to use Huawei-certified switch optical modules.

Troubleshooting Optical Module Issues

Troubleshooting Optical Module Issues Symptom An optical port cannot go Up. The optical module cannot be properly identified and optical module information cannot be obtained. After

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