Huawei Optical Switch Optical Port Sort



Overview

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei technical support.

Key Takeaways

Huawei switch optical ports can be logically sorted and managed through interface numbering, combo interface selection, and transceiver diagnostics to ensure proper connectivity and performance.

Viewing and Identifying Optical Ports

To check the status and details of optical ports, use the following commands:display transceiver – shows information for all optical modules on the switch.display transceiver interface interface-type interface-number – shows details for a specific port. Adding the verbose parameter provides receive and transmit power, temperature, voltage, and bias current for precise diagnostics.

Combo Interface Management

Some Huawei switches feature Combo interfaces, which include one optical and one electrical port sharing a single forwarding interface. Only one port can be active at a time: Switch to optical mode: combo enable fiberSwitch back to electrical mode: undo combo enable fiberEnsure the same configuration is applied on the peer device for proper communication. Interface Splitting and Logical Port NumberingHigh-bandwidth interfaces (e.g., 40GE) can be split into multiple lower-bandwidth interfaces (e.g., four 10GE interfaces).

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After splitting: Each sub-interface is assigned a logical number according to the switch's interface overview. Configuration changes require saving and restarting the switch to take effect. Rollback commands do not restore the original configuration automatically, so manual reconfiguration may be necessary.

Optical Module and Fiber Compatibility

Proper sorting and usage of optical ports also depend on matching optical modules and fibers: Use single-mode fibers with single-mode modules and multimode fibers with multimode modules. Avoid using higher-rate modules than the interface supports (e.g., 10G module on a 1G port). Check optical power, wavelength, and module type to ensure compatibility.

Stacking and Logical Port Assignment

For stacking multiple Huawei switches: Assign logical port numbers to optical ports for consistent stacking and ring or chain topologies. Example: first two 10G optical ports as logical port 1, last two as logical port 2. Proper logical sorting ensures predictable traffic flow and easier troubleshooting.

By following these practices, Huawei switch optical ports can be effectively sorted, monitored, and configured for reliable network performance.

Article Content

Installing an Optical Module

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei technical support. If your optical modules are delivered after January

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

Huawei Optical Switch View Optical Module Commands

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as follows: ... View the

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How To View Optical Transceiver Information On Huawei Switches

It displays port rate, transceiver type, link status (UP indicates normal link) and traffic statistics for fault analysis. Note: interface-type interface-number stands for port type and port ID.

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

The Combo electrical port and its corresponding optical port are logically multiplexed. Users can choose either port according to actual networking requirements, but the two cannot

Huawei S5700 Naming & Port Numbering Guide

Huawei S5700 Naming & Port Numbering Guide Leading Huawei networking products distributor - huanetwork Huawei S5700 - Naming Conventions and Port Numbering Conventions

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 optical module is faulty, send it to ...

Port Numbering Conventions of Huawei S2700 S5700 S6700 Switches

In this article, HongTelecom will introduce the Port Numbering Conventions of Huawei S2700 S5700 S6700 Switches. Port Numbering Conventions Physical ports are numbered in the

Port: Optical Ports on the AC 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 the fault may occur on the peer device or the link.

How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

This article takes the Huawei AR5710S-S8T2X router as an example to explain how to switch the optical and electrical modes of Combo ports.

Displaying Optical Module Information

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What Is the Impact of Using Non-Huawei-Certified Switch Optical Modules? When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical

Checking the Optical Module Type

For the Huawei-certified optical modules, Huawei has added Huawei logo and identifier and changed the vendor information in the product elabel and optical module information into HUAWEI. When an

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 the auto-negotiation mode is used but the interface cannot go Up, set the

CloudEngine S5732-H Series Hybrid Optical-Electrical Switches

CloudEngine S5732-H Series Hybrid Optical-Electrical Switches CloudEngine S5732-H series hybrid optical-electrical switches are brand-new 10GE access switche that provides 24-port (optical) + 24

Huawei S5700 Naming & Port Numbering Guide

Huawei S5700 - Naming Conventions and Port Numbering Conventions Huawei S5700 Switch naming conventions NOTE: The device names in this figure are used as examples and do not represent

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.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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