

# Huawei Switch Optical Port Sort



## Overview

Displaying Optical Module Information A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optica.

## 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 fiber`  
Switch back to electrical mode: `undo combo enable fiber`  
Ensure the same configuration is applied on the peer device for proper communication.  
Interface Splitting and Logical Port Numbering  
High-bandwidth interfaces (e.g., 40GE) can be split into multiple lower-bandwidth interfaces (e.g., four 10GE interfaces).

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**

### Displaying Optical Module Information

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

### Interface Management FAQ

Optical modules that are not certified for Huawei switches cannot ensure transmission reliability and may affect service stability on the switch. Huawei is not responsible for any problem caused by optical

### 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

### Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

## How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

## 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

## 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 switch cheat sheet · GitHub

When you introduce a Huawei backbone switch into an existing network where Cisco switches were originally configured, issues with VLAN configurations and port status color changes

## Netronixbd/OLT-and-Switch-Config-Troubleshooting

It contains configuration commands, troubleshooting methods, power-check commands, and best practices for multiple OLT brands. Whether you're managing a large ISP or setting up a lab,

## 9 Query Commands for Huawei Switches

This article will introduce in detail the nine query commands of Huawei switches to help you quickly understand the operating status and configuration information of the device, so as to

## Configuring Attributes for an Optical Interface

Converted interfaces go Up after the switch restarts and the configurations delivered when the split interface is in Offline state take effect. A 40GE interface cannot be split if it has been

## Displaying Optical Module Information

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

When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module quality. The functions include the installation and removal, transmit and

### Basic Interface Configuration Commands

For example, you can run port description router command to indicate that the interface is connected to a router. Precautions After you configure this command on an interface, the interface can still switch

### 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.

### 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 status and how to locate an interface physically down fault and restore the

### What Is an All-Optical Ethernet Switch?

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal choice for building an all-optical campus network. They can function as

### 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

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

