Enable the optical port on the Huawei switch



Overview

Example for Configuring a Combo Interface The electrical and optical interfaces share one interface view. When you enable the electrical or optical interfa.

Key Takeaways

To enable an optical port on a Huawei switch, you must activate the port via CLI and ensure the optical module and fiber are compatible and functioning. Step 1: Access the Switch CLIConnect to the Huawei switch using a console cable or SSH. Enter system view mode to configure the device: CodeCopysystem-view Step 2: Navigate to the Optical PortIdentify the port you want to enable (e.g., GigabitEthernet0/0/2) and enter interface configuration mode: CodeCopyinterface GigabitEthernet0/0/2 Step 3: Enable the PortIf the port is administratively down, activate it using: CodeCopyundo shutdown This command brings the port up and allows it to transmit and receive traffic.

Step 4: Assign VLAN and Configure Link TypeFor basic connectivity, assign the port to a VLAN and set the link type: CodeCopyport link-type accessport default vlan 10 Adjust the VLAN ID as needed for your network. Step 5: Verify Optical Module StatusCheck if the optical module is recognized and operating correctly: CodeCopydisplay transceiver interface GigabitEthernet0/0/2 verbose This command shows the module type, link status, optical power, wavelength, and other diagnostics. Ensure the module is compatible with the port speed and fiber type (single-mode vs. multi-mode) to avoid connectivity issues.

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Step 6: Troubleshoot Common IssuesPort remains down: Confirm the port is not administratively shut down using display interface GigabitEthernet0/0/2. If it shows Administratively DOWN, reapply undo shutdown. Incompatible optical module: Do not mix single-mode and multi-mode fibers or use a module with a higher rate than the interface supports.

Check optical power: Ensure received and transmitted optical power are within normal ranges using the verbose transceiver display. Step 7: Save ConfigurationAfter enabling the port and verifying functionality, save the configuration to prevent loss after a reboot: CodeCopysave Optional: Enhance SecurityTo prevent unauthorized access, configure port security and rate limiting: CodeCopyport-security enableport-security mac-address stickyqos lr outbound cir 100000 Adjust bandwidth and MAC address settings according to your network policy. By following these steps, the optical port on a Huawei switch will be enabled, properly configured, and ready for network traffic.

Article Content

Example for Configuring a Combo Interface

The electrical and optical interfaces share one interface view. When you enable the electrical or optical interface, configure the interface attributes (such as the rate and duplex mode) in

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

Optical Module Solutions for Huawei S5700/S5720 Series Switches

How to Configure Optical Ports on Huawei S5720-32P-EI-AC Switch? Problem: All optical ports cannot be connected, and the indicator lights are not on. Solution: To solve this problem, you

Enabling 100G Ports: How to Activate the RUT License on Huawei

In this post, I''ll walk you through how to install and activate a 100G RUT license on a Huawei S6730-H switch, using real CLI commands and practical checks — no unnecessary theory.

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

A Combo port, also known as an optical-electrical multiplexing port, consists of one optical port and one electrical port on the device panel, which share a single internal forwarding

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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 ...

Installing Optical Module Tutorial For HUAWEI Switch

Step 1: Antistatic strap must be worn to prevent static damage. Step 2: Take out the optical module, ring and label up, the gold finger is facing down, Note that the right and the negative can not be reversed.

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

How to Enable Ports in Huawei Switch? Could Open Ports Unlock

Configuring ports on a Huawei switch is a fundamental yet critical task for network administrators. Whether you''re setting up a new network segment or troubleshooting connectivity

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 ...

Optical Transceiver Market: Top 10 Manufacturers Ranked

Optical transceiver market leaders: the top 10 manufacturers powering 400G and 800G modules for hyperscale data centers and AI networking.

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H+S Polatis

Software Defined Networking enabled All Optical Switches. Industry leading performance - optical loss below 1dB. Customized MxN configurations up to 384x384 ports, SDN enabled with embedded

Huawei EchoLife HG8247 Series Quick Start Manual

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If your Huawei EchoLife HG8247 Series Gateway is not connecting to the internet, check the following: If the LOS indicator blinks once every two seconds, ensure the pigtail fiber is properly connected and

The Ultimate Guide to SFP Modules (2026): Types, Speeds

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right transceiver for Cisco, Juniper, and more.

Cisco SFP vs GBIC vs XFP vs SFP+: The Practical Optical

An optical transceiver is a modular component that converts electrical signals into optical signals (and vice versa). Installed in switch or router ports, transceivers enable fiber-based

Troubleshooting Huawei MA5608T vs MA5800-X2: Optical Interfaces ...

Q1: What is the maximum switching throughput and backplane capacity of the Huawei MA5608T vs. the MA5800-X2? The MA5800-X2 offers significantly higher throughput performance due to its

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.

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