Configure Huawei switch ports as optical ports



Overview

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

Key Takeaways

Huawei switch optical ports can be configured by verifying module compatibility, enabling the optical interface, and setting interface attributes via CLI commands. 1.

Verify Optical Module and Fiber Compatibility

Before configuring an optical port, ensure that the optical module matches the interface speed and type of fiber: single-mode modules with single-mode fiber, and multimode modules with multimode fiber. Avoid using a higher-rate module than the interface supports (e.g., do not use a 10G module on a 1G port). Perform a loopback test by connecting the fiber jumper to the same module to check for abnormal conditions.

Check the wavelength, received, and transmitted optical power using the command display transceiver interface xgigabitethernet 0/0/2 verbose in system view. 2.

Configuring Combo Interfaces

Some Huawei switches have combo interfaces with both electrical and optical ports sharing a single logical interface. Only one port can be active at a time. To enable the optical port: Enter system view: system-viewFor GE combo interfaces: interface GigabitEthernet0/0/0 then combo enable fiber to switch to optical mode, or undo combo enable fiber to revert to electrical mode.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

For 10GE/2. 5GE combo interfaces: port combination-mode 10GE interface interface-name to switch to optical mode, or undo port combination-mode 10GE interface interface-name to revert. After switching, configure interface attributes such as speed and duplex in the same interface view.

3. Interface Split (High-Bandwidth Interfaces)On switches like the CX320, a 40GE interface can be split into four 10GE interfaces using either a 1-to-4 high-speed cable, active optical cable (AOC), or 40GE optical module with optical fibers. Ensure that the remote interfaces have compatible optical modules with matching wavelengths.

4.

Checking and Enabling the Port

Check the port status: display interface xgigabitethernet0/0/2If the port shows Administratively DOWN, enable it with: interface xgigabitethernet0/0/2 then undo shutdown. Verify the interface is operational using display interface brief. 5.

Additional Tips

Always wear an anti-static wrist strap when handling optical modules. Save configuration changes to make them permanent: save. Ensure the peer device interface is configured with compatible speed and mode.

For stacking switches using optical ports, follow the logical port mapping and topology (chain or ring) as per the model. By following these steps, Huawei switch optical ports can be properly configured, verified, and integrated into the network, ensuring reliable optical connectivity.

Article Content

Example for Configuring a Combo Interface

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

Displaying Optical Module Information

This document describes the principles and configurations of the Device Management features, and provides configuration examples of these features.

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

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

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.

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

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 ...

Configuring ports on Huawei switches

I will give an example of setting up ports on Huawei switches. For the test, I will execute commands on the Huawei Quidway S2326TP-EI. After we connect to the switch, go to 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

Huawei S Series Switches Stack Guide—Version and Model

Service port connections are classified into ordinary and dedicated cable connections based on cable types. Ordinary cable connection: Switches use optical cables, network cables, and

How To Configure Interface Breakout And Aggregate On Huawei

This article takes Huawei CE6810-24S2Q-LI and CE6860-48S8CQ-EI switches as examples, introducing the configuration methods for QSFP interface breakout and aggregation on

Overcoming Network Bottlenecks: Enterprise Configuration Manual for ...

This is where Huawei Switch VLAN Routing Configuration becomes a critical operational competency. Misconfigurations or suboptimal routing designs can introduce severe network bottlenecks,

Overcoming Network Bottlenecks: Enterprise Configuration Manual for ...

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

This manual serves as a comprehensive guide for network engineers to master the architecture, configuration, and troubleshooting of inter-VLAN routing on Huawei switches, ensuring high

Network Cards, Adapters, and NICs Explained: Types

Learn what network cards, adapters, and NICs are. Understand wired vs wireless, PCIe vs USB, 1G–100G speeds, RJ-45 vs SFP+, installation

Huawei CloudEngine 9855-32DQ Data Center Switch Datasheet

Huawei CloudEngine 9855 series switches are next-generation high-performance and high-density 400GE access switches designed for DC scenarios. They have an advanced hardware architecture,

Huawei S3700, S5700 and S6700 Firmware & Software Download-Huawei

EOFS Announcement for huawei LSW V200R008 EOM Announcement for huawei LSW V200R012 EOM Announcement for huawei LSW V200R011 EOM Announcement for huawei LSW V200R010

Switch Port Planning + Optics & Cabling for

Send your switch port requirements + distance tiers + target speeds-we''ll reply with a BOM (switches if needed, optics, DAC/AOC, fiber patch cables) plus

Mga Madalas Itanong (FAQ) tungkol sa Paglilisensya ng Huawei OLT

Ang pag-activate ng mga PON port sa mga Huawei OLT ay isang karaniwang punto ng kalituhan para sa mga network engineer at mga espesyalista sa pagkuha. Ang modelo ng paglilisensya ay hindi

The Ultimate Guide to Huawei MA5800 OLT Configuration:

The high-end models also support 2 x 100GE uplink ports, providing massive uplink bandwidth for enterprise core routing and carrier-grade routing reliability . Deployment Scenarios and Configuration

Related Video Reference

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

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Contact Us

Continue your research online:

Website: https://fdsoluciones.es
Technical inquiry: https://fdsoluciones.es/project-enquiry.html

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

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved