Huawei Switch Optical Port Configuration Mode



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.

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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

Changing the Working Mode of an Interface and Splitting the Interface ...

You can run the set device port-config-mode enable command to change the working mode of SFP28 Ethernet optical ports on the device panel and change the working mode of QSFP28 Ethernet optical

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

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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

To enable a port on a Huawei switch, start by accessing the device''s command-line interface (CLI) via a console cable or SSH. Use the system-view command to enter configuration

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You can do this by either changing the VTP version on the Cisco edge switches to VTP version 3, or by changing the VTP mode on the Huawei backbone switch to VTP transparent mode.

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,

Huawei Switch Configuration Tutorial Basic

With hands-on experience in Huawei OLT and ONT configuration, U2000 NMS deployment, iMaster NCE-FAN Lite management systems, firmware upgrades, and advanced

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 ...

Access port config (Huawei)

An access port belongs to and carries the traffic of only one VLAN within 2-layer switch. Traffic is both received and sent in native formats with no VLAN tagging whatsoever.

Ethernet Interface Configuration Commands

This page provides configuration commands for Ethernet interfaces on Huawei devices, covering settings like duplex mode and auto-negotiation.

port mode fast-up

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CX11x, CX31x, CX710 (Earlier Than V6.03), and CX91x Series Switch Modules V100R001C10 Command Reference 17 This document provides the configuration commands of each feature

Basic Configuration on the Device at First Login

Basic Configuration on the Device at First Login Context This section describes how to configure the time and date, device name, management IP address, and the user level and authentication mode

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

Ethernet Interface Configuration Commands

S1720, S2700, S5700, and S6720 V200R011C10 Command Reference This document describes all the configuration commands of the device, including the command function, syntax, parameters, views,

What Can I Do If a Message Is Displayed Indicating that an Optical ...

For example, if a non-XGE optical module is installed on an XGE port, the rate of the optical module does not match the port rate. In this case, replace the current optical module with a supported optical

combo-port

The combo-port command configures the working mode of a combo interface. The undo combo-port command restores the default setting. By default, a combo interface works in auto mode. That is, the

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

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