Huawei Switch Optical Port Conversion 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

To configure an optical port on a Huawei switch, you need to install a compatible SFP module, enable the port, and set the interface mode according to the connected device. Step 1: Install the Optical ModuleWear an antistatic wrist strap to prevent damage from static electricity. Insert the optical module into the port with the gold fingers facing down and ensure the module snaps into place securely.

Avoid reversing the module orientation. Verify that the module is compatible with the switch and the fiber type (single-mode or multi-mode) matches the optical module. Step 2: Enable the Optical PortAccess the switch via CLI using a console cable or SSH.

Enter system view with the command: CodeCopysystem-view Navigate to the target interface, for example: CodeCopyinterface GigabitEthernet 0/0/1 Enable the port using: CodeCopyundo shutdown Assign a VLAN if needed: CodeCopyport link-type accessport default vlan 10 Save the configuration: CodeCopysave This ensures the port is active and ready for traffic. Step 3: Configure Combo Interfaces (if applicable)For combo interfaces (optical-electrical multiplexed ports), only one interface can be active at a time. Switch to optical mode with: CodeCopycombo enable fiber To revert to electrical mode: CodeCopyundo combo enable fiber For 10GE combo interfaces, use: CodeCopyport combination-mode 10GE interface interface-name Ensure the peer device is configured with the same mode to allow communication.

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Step 4: Verify Optical Port StatusCheck if the port is administratively up: CodeCopydisplay interface GigabitEthernet 0/0/1 Verify transceiver information and optical power levels: CodeCopydisplay transceiver interface GigabitEthernet 0/0/1 verbose Ensure the wavelength, received, and transmitted optical power are within normal ranges. Step 5: TroubleshootingConfirm that the fiber type and optical module are compatible. Do not mix single-mode and multi-mode fibers or modules.

Avoid using a module with a higher rate than the interface (e.g., 10G module on a 1G port). Perform a loopback test by connecting the fiber jumper to the same module to check for abnormalities. Following these steps ensures that the Huawei switch optical port is properly installed, enabled, and configured for reliable network operation.

Article Content

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

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

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

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

Huawei Layer 3 Switch Layer 2 and Layer 3 Port Switching

The port of Huawei''s Layer 3 switch works in Layer 2 mode by default and is added to vlan1. When the interface is changed from Layer 2 to Layer 3, the device will not exit vlan1 immediately, and will exit

Huawei Switches Viewing Optical Port Receiving and Sending

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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

Enabling pass through in a Huawei optic router

Generally fiber optic connections use either plain fiber-Ethernet or more commonly GPON (which still carries Ethernet data), and Ethernet-to-Ethernet passthrough is usually called

What is the combo interface of Huawei Switch

If the local combo electrical interface is connected to a remote electrical interface, configure the combo interface to work in copper mode. If the local combo optical interface ...

Huawei/swtch.md at main · RodolfoBrandaoOficial/Huawei

This repository contains a comprehensive list of commands for configuring and managing Huawei Switches. These commands are valuable for network administrators and engineers working with

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. ...

How To Switch Optical-Electrical Mode On Huawei Router Combo

Take the Huawei AR5710S-S8T2X router as an example to understand how to switch the optical and electrical modes of the Combo interface of the Huawei router.

Example for Configuring a Combo Interface

If the local combo optical interface is connected to a remote optical interface, configure the combo interface to work in fiber mode. If the local combo interface is configured to work in a

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

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

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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

Ethernet Interface Configuration Commands

Four SFP28 Ethernet optical interfaces (25GE by default) and two QSFP28 Ethernet optical interfaces (40GE by default) have been configured using the set device port-config-mode enable command.

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

Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP,

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