

Huawei Switch Optical Interface Configuration



AI Overview

Huawei switch optical interfaces can be configured by enabling the optical mode on the interface, setting the correct transceiver type, and optionally using interface split or PON configurations for high-bandwidth or point-to-multipoint networks.

Basic Optical Interface Setup

Access the switch console: Connect your PC to the switch via the COM port and power on the device. Set the system clock and timezone if needed.

Enter system view: Use the command `system-view` to access configuration mode.

Select the interface: Identify the optical interface (e.g., `GE0/0/0`) and enter interface view using `interface GigabitEthernet 0/0/0`.

Enable optical mode on Combo ports: For Combo ports (electrical/optical multiplexed), run `combo enable fiber` to switch to optical mode. To revert to electrical mode, use `undo combo enable fiber`.

Verify transceiver status: After enabling optical mode, check the SFP transceiver information with `display transceiver interface GigabitEthernet 0/0/0` to confirm type, wavelength, and operational status.

High-Bandwidth Interface Splitting

Huawei switches like the CX320 support interface splitting, allowing a 40GE interface to be divided into four 10GE interfaces. This can be done using:

- A 1-to-4 high-speed cable or active optical cable (AOC) without additional optical modules.
- A 1-to-4 40GE optical module with matching 10GE modules on the remote device.

This provides flexible networking and reduces hardware costs while maintaining high throughput.

PON Interface Configuration

For switches or routers connected to EPON or GPON networks:

Configure the PON interface to automatically detect the working mode or manually set it to EPON/GPON mode depending on the upstream OLT.

Use `epon compatibility dba` if needed and restart the device to apply changes.

Be cautious when changing modes, as active service traffic may be interrupted.

Verification Comman...

Article Content

Displaying Optical Module Information

The edge connectors of some non-Huawei-certified switch optical modules have a nonstandard size, causing the interface to be short-circuited and damaging the electronic components of the interface.

01-18 PON INTERFACE CONFIGURATION

When the device is connected to a GPON interface of an OLT, configure the device to automatically determine the working mode according to the received optical signal, or configure the PON interface

What are the common check commands for Huawei switches?

In the daily maintenance of Huawei switches, we need to use various inspection commands. Today, let's take a look at the commonly used inspection commands related to port 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

Ethernet Interface Configuration Commands

This document explains Ethernet interface configuration commands, including functions, syntax, parameters, views, default level, guidelines, examples, and related ...

Microsoft 365 Roadmap | Microsoft 365

The Microsoft 365 Roadmap lists updates that are currently planned for applicable subscribers. Check here for more information on the status of new features and updates.

Basic Interface Configuration Commands

When the master switch in a stack containing multiple member switches is faulty, the top N interface traffic statistics function takes effect only on a master switch. If the master switch encounters a fault

Huawei Switch Configuration Tutorial Basic

Huawei Switch Configuration Tutorial: System-View sysname Switch-1 | user-interface vty 0 4 | set authentication password cipher P@ssw0rd

Configuring Optical Interface Attributes

This document describes the interface management configuration, including basic interface configuration, Ethernet interface configuration, and logical interface configuration.

Checking the Optical Module Type

The selected optical modules must be supported by the optical interfaces. Check whether the optical module used on the switch is certified by Huawei switches. For the Huawei-certified optical modules,

Troubleshooting for Optical Modules on Huawei Switch

When this optical module uses OM3 multimode optical fibers, its transmission distance is 0.3 km. The optical modules used on both ends must have the same transmission speed, and the interface

Configuring Attributes for an Optical Interface

After configuring interface split or merge on an interface, you need to save the configuration and restart the switch to make the configuration take effect. The original configuration on the interface will be lost.

Ethernet Interface Configuration Commands

You can configure the MultiGE interface on the Huawei switch to work in slave mode (the interface on the Cisco AP works in master mode). The two interfaces then can negotiate to work in the highest

Displaying Optical Module Information

Displaying Optical Module Information Context When the optical module on an interface is faulty, you can run the display commands to view information about the optical module.

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

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

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.

Example for Configuring a Combo Interface

"Campus Networks Typical Configuration Examples" provides typical campus network networking modes and a variety of deployment examples."Feature Typical Configuration Examples"

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

Configuring Attributes for an Optical Interface

Both the local and remote interfaces do not need to have optical modules installed. The 40GE interface can be connected to four 10GE interfaces on the remote device using a 1-to-4 40GE optical module

Configuring Common Attributes of Optical and Electrical Interfaces ...

This document describes the principles and configurations of interfaces and provides configuration examples.

Ethernet Interface Configuration Commands

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

Configuring Optical Interface Attributes

Logical Interface Configuration Configuring Optical Interface Attributes Configuring Interface Split and Merge Configuring Unidirectional Single-Fiber Communication Configuring the Training Function on a

Basic Configuration for Interfaces

Basic Configuration for Interfaces This chapter describes interface types, interface numbering rules, and configuration parameters that facilitate interface management.

Displaying Optical Module Information

Therefore, non-Huawei-certified switch optical modules are not recommended. When a non-Huawei-certified switch optical module is used, the following problems often occur: The optical module cannot

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 ...

Configuring Common Optical/Electrical Interface Attributes

CX11x, CX31x, CX710 (Earlier Than V6.03), and CX91x Series Switch Modules
V100R001C10 Configuration Guide 16 The documents describe the configuration of various services

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. ...

Contact Us

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