

Enabling the optical interface on Huawei switches



AI Overview

Huawei optical interfaces require proper module selection, medium type configuration, and interface attribute settings to ensure correct operation and connectivity.

- 1. Preparing Optical Modules and Fibers**Before configuring an optical interface, ensure that the optical module and fiber type are compatible with the switch port. Single-mode and multi-mode fibers must match the corresponding optical modules, and the module speed should not exceed the interface capability (e.g., do not use a 10G module on a 1G port) . For Huawei CloudEngine switches, only certified optical modules should be used to avoid misidentification or damage .
- 2. Connecting and Verifying the Interface**Insert the optical module into the switch port and connect the fiber. Use the command `display interface [interface-type interface-number]` to check the port status. If it shows Administratively DOWN, the port is shut down and must be enabled . For detailed optical parameters, run `display transceiver interface [interface-type interface-number] verbose` to check wavelength, received, and transmitted optical power .
- 3. Configuring Medium Type**Huawei switches allow pre-configuration of the transmission medium type even before the module is installed. This ensures faster service deployment. If the installed medium differs from the pre-configured type, the installed medium takes priority. Forcing the medium type is possible but may damage the module if mismatched .
- 4. Configuring PON Interfaces (EPON/GPON)**For switches or routers acting as ONUs in a PON network: Configure the PON interface to auto-negotiate the working mode (EPON or GPON) based on the received optical signal . If switching modes after a successful negotiation, reset the PON board to trigger re-negotiation. Note that changing the working mode interrupts service . For EPON interfaces, compatibility mode can be configured using the `epon...`

Article Content

10GE SFP+ Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information about each chassis, power module, fan module, card, cable, and

Global Leader in Materials, Networking, and Lasers

Enable ultra-high-speed data transmission and optimized power efficiency for hyperscale and enterprise datacenters with our advanced optical transceivers,

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

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

Enabling or Disabling an Interface

Enabling or Disabling an Interface Context After modifying parameters of an interface, run the shutdown and undo shutdown commands, or run the restart command to make the modification take effect. If

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

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

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 ...

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,

Co-Packaged Optics (CPO) Market Size to Hit USD

Co-packaged optics enable telecom equipment manufacturers to design compact, scalable, and high-capacity switching platforms that can handle

Ethernet Interface Configuration Commands

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

Troubleshooting Huawei EG8145V5: Optical Interfaces, Stacking

Overview Welcome to the technical support FAQ for the Huawei EchoLife EG8145V5. This routing-type Optical Network Terminal (ONT) is a key component in Huawei's all-optical access solution, utilizing

Enabling or Disabling an Interface

Enabling or Disabling an Interface Context To implement the modifications made to an interface's parameters, run the shutdown and undo shutdown commands, or run the restart command. When an

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

The New Optical Interface: Novel Connector Designs

Adopting interfaces based on expanded-beam optics is essential for enabling detachable connector technologies, and these interfaces are more sensitive to

Ethernet Interface Configuration Commands

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

Checking TX / RX optical power for Huawei Switches and Routers

Here is an example on how to query or display optical power of an interface in a Huawei Router. This is tested using NetEngine40E Universal Service Router or NE40E running version 8.x OS.

Configuring Optical Interface Attributes

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

Enabling 100G Ports: How to Activate the RUT License

Learn how to activate a 100G RUT license on Huawei S6730-H switches step by step. This practical guide covers license installation,

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.

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

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

Enabling ALS on an Interface

On an optical interface, ALS controls light emission by the laser in the optical module. When an optical fiber is not in position or an optical link is faulty, the corresponding laser automatically disables light

Configuring Attributes for an Optical Interface

A high-bandwidth interface on the device can be configured as multiple low-bandwidth interfaces or directly used based on the interface type on the remote device. The interface split function allows for

Enabling or Disabling an Interface

This guide explains how to enable or disable an interface on Huawei devices, including principles, configurations, and examples for interface management.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.introspec.co.za>

Email: info@introspec.co.za

Phone: +27 73 849 2156

Address: 25 Riebeek Street, Cape Town, 8001, South Africa

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