

How to adjust the optical port of a Huawei switch



Article Overview

Huawei switches allow you to view, monitor, and adjust optical port parameters using CLI commands such as display transceiver and interface configuration commands.

Viewing Optical Port Information

Before modifying parameters, it is essential to check the current status of the optical ports:

- Use display transceiver to view all optical modules on the switch.
- To check a specific port, run display transceiver interface interface-type interface-number. This provides details such as transceiver type, connector type, wavelength, transfer distance, vendor information, and digital diagnostic monitoring (DDM) status .
- For detailed receive (Rx) and transmit (Tx) power readings, add the verbose parameter to the command. This shows real-time power levels, voltage, bias current, and thresholds, which are critical for monitoring optical performance .

Modifying Optical Port Parameters

While Huawei switches do not allow direct modification of physical transceiver characteristics (like wavelength or power output), you can configure interface-level parameters that affect optical port behavior:

- Enable or disable the port:...

Article Content

Sep 28, 2025

Installing an Optical Module

Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper

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Ethernet Interface Configuration Commands

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

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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

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Master the Basic Command Configurations of Huawei, H3C, Ruijie,

As technology advances, networking switches have become an integral part of the IT infrastructure. They play a

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Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, contact Huawei technical

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Replacing an Optical Module

Huawei-certified optical modules are strongly recommended because non-Huawei-certified optical modules cannot ensure

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Basic CLI Commands on Huawei Switch

This text is a guide detailing Basic Command Line Interface (CLI) Commands on Huawei brand switches. It

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How Do I Check the Interface or Port Status?

Checking Service Interface Indicators to Determine the Interface Status Observe service interface indicators to quickly identify the

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Installing an Optical Module

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper

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Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered

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How to View Optical Module Parameters

Using a Command If an optical module is installed in a running device, you can run the display transceiver command

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Replacing an Optical Module

Optical modules are electrostatic-sensitive components; therefore, you must take ESD protection measures when replacing optical

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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

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Troubleshooting S Series Switch Port and Interface Problems

Introduction This document describes how to check the switch interface or port status and how to locate an interface physically down

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What Is an All-Optical Ethernet Switch?

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal

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Huawei Enterprise Support Community

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9 Query Commands for Huawei Switches

This article will introduce in detail the nine query commands of Huawei switches to help you quickly understand the

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Checking the Interface Status and Configuration Parameters

If a message is displayed, indicating that the optical module is not in position, remove and then properly insert the optical module. If

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Configuring Attributes for an Optical Interface

The indicator status of a split 40GE port is the same as that of the 10GE port to which the first split optical fiber is

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Replacing an Optical Module

Use optical modules certified for Huawei data center switches. Non-certified optical modules cannot ensure transmission reliability

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Optical Fiber

AOC An active optical cable (AOC) is a fixed-length optical fiber with optical modules at both ends. It can be directly connected to an

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Huawei Switch Configuration Tutorial Basic

With hands-on experience in Huawei OLT and ONT configuration, U2000 NMS deployment, iMaster NCE-FAN Lite

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How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

This article takes the Huawei AR5710S-S8T2X router as an example to explain how to switch the optical and

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Troubleshooting for Optical Modules on Huawei Switch

When the transmit/receive power of the optical ports is too high, optical modules on the ports may be damaged. In this case, connect

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Replacing an Optical Module

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper

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Huawei S3700, S5700 and S6700 Switches Support Guide, Manuals

S3700& S5700& S6700 Series: Access product manuals, HedEx documents, product images and visio stencils.

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Configuring the Working Mode of a Combo Interface

This guide explains how to configure the working mode of a combo interface on Huawei devices, including switching between

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Troubleshooting for Optical Modules on Huawei Switch

When connecting switches through optical ports, pay attention to the following points: The optical modules used on both ends must

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CloudEngine S5732-H Series | Huawei Enterprise

The CloudEngine S5732-H Series Hybrid Optical-Electrical Switch is a new generation of 10 GE access switch, featuring 24 optical

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How Do I Query the Optical Power of an Interface?

How Do I Query the Optical Power of an Interface? You can run the display interface [interface-type interface-number

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Installing an Optical Module

Remove the dust plug from an optical port. Keep the dust plug for future use. Ensure that the optical module is correctly oriented and

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Installing Optical Module Tutorial For HUAWEI Switch

Module installation is an important factor affecting the service life of switches and modules. In the installation process, be sure to

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Connecting a Cable to an Optical Port

Ensure that optical cables are routed straightly and bound neatly, and that cable ties are installed at even spacing and fastened

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Typical Troubleshooting Cases of Optical Module

(For details about the commands for querying port information, see the command reference of a specific switch model.) Use an

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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

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Configuring Optical Interface Attributes

Configuring Optical Interface Attributes Configuring Interface Split and Merge
Configuring Unidirectional Single-Fiber Communication

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How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices.

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