

Huawei configures optical modules



AI Overview

Configuring a Huawei optical module involves proper installation, enabling the correct interface mode, and verifying operational parameters using system commands.

Step 1: Safety and Installation Before installation, wear an ESD wrist strap or gloves to prevent electrostatic damage and ensure the optical module is certified for Huawei devices, as non-certified modules may cause service instability or hardware damage. Remove the dust plug from the optical port and keep it for future use. Ensure the module is correctly oriented and gently insert it until it clicks. If it does not fit, rotate 180 degrees and try again. Do not connect optical fibers until the module is securely seated. Measure input optical power to ensure it is within the normal range to avoid overloading the module.

Step 2: Interface Mode Configuration Huawei devices often have combo interfaces that can operate in electrical or optical mode. To enable the optical interface: Enter system view: `system-view` Switch to optical mode: `combo enable fiber` To revert to electrical mode: `undo combo enable fiber` For 10GE optical interfaces on combo ports: `port combination-mode 10GE interface interface-name` and revert with `undo port combination-mode 10GE interface interface-name`. Ensure the same configuration is applied on the peer device to maintain connectivity.

Step 3: Verify Module and Port Status After installation and mode configuration, check the module and port status: Display interface status: `display interface brief` Check transceiver information: `display transceiver interface xgigabitethernet 0/0/2 verbose` Run diagnostics: `display transceiver diagnosis interface interface-type interface-number` to view digital diagnostic monitoring (DDM) data such as optical power, wavelength, temperature, voltage, and current. Ensure the module type matches the fiber type (single-mode vs. multi-mode) and the interface speed (e.g., do not use a 10G module on a 1G port).

Step 4: PON Interface Configuration (if applicable) For routers acting as ONUs in a PON network: Configure the PON interfac...

Article Content

Huawei Unveils StarryLink Optical Modules That Deliver Ultimate

BARCELONA, Spain, March 6, 2025 /PRNewswire/ -- At the Mobile World Congress 2025 (MWC 2025), Huawei launched the StarryLink optical modules, designed to enhance network experiences with "3S"...

What Is an Optical Module and Its FAQs (V200)

As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and vice versa. An optical module works at the physical

S200 AND S1700 V200R024C00 WEB USER GUIDE

Reference Standards and Protocols To obtain reference standards and protocols, log in to Huawei official website, search for "standard and protocol compliance list", and download the Huawei S

Optical Modules for Huawei S Series Switches

To determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, contact Huawei technical support. If your optical modules are delivered after July 1, 2013, use

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. ...

Optical Module Troubleshooting

Interfaces that use optical modules that are not certified for Huawei data center switches may be unable to go Up. If an optical module that is not certified for Huawei data center switches is

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.

S310-48P4S

This document describes all the configuration commands of the device, including the command function, format, parameters, views, default level, usage guidelines, examples, and related commands.

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, and naming conventions of optical modules, causes of

The Ultimate Guide to Huawei MA5800 OLT Configuration:

The modern gigabit broadband era demands an optical line terminal (OLT) that transcends traditional chassis-based designs. The Huawei SmartAX MA5800 series,

Resource Management Diagnostic Commands

Usage Guidelines When an optical module is faulty, run the export memory log command to export the memory log file of the optical module for fault locating.

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

Setting Optical Power Alarm Thresholds

The configured optical power alarm thresholds must be within the default range. The default optical power alarm thresholds are proper values verified by testing. Therefore, it is not recommended to

Huawei S3700, S5700 and S6700 Firmware & Software Download-Huawei

S3700& S5700& S6700 Series: Access the latest firmware, download and update.

Huawei CloudEngine S6750-H Series 100GE Switches Datasheet

Huawei CloudEngine S6750-H Series 100GE Switches Datasheet Huawei CloudEngine S6750-H series 100GE switches are next-generation enterprise-class core switches that provide 36 x 100GE optical

TaiShan 200 Server User Guide (Model 2280) 17

The original CPU models Kunpeng 920 6426/4826/3226 have been changed to Kunpeng 920 7260/5250/5230. Kunpeng 920 5230 has reached the end of marketing (EOM).

Huawei OLT PON Port Licensing FAQ: Expert Answers to Network ...

Q5: Is an optical module compatible with any PON port? What are the guidelines? No. Optical module compatibility is strictly tied to the port mode and licensing. A GPON optical module will only work

Installing Optical Transceivers and Connecting Optical Fibers

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or SFP+ ports and connect them to the ports of the peer device using

Why Are Alarms About Optical Modules That Are Not Certified for Huawei ...

Vendor information of optical modules early delivered from Huawei may not be recorded. Therefore, alarms about optical modules that are not certified for Huawei Ethernet switches are

Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei technical support. If your optical modules are delivered after January

Huawei CloudEngine S5755-S Series Twins Switches Datasheet

Cloud Management • Through the Huawei cloud management platform, the CloudEngine S5755-S-HT series can be configured, monitored, and inspected in the cloud. This reduces the need for on

Contact Us

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