

How to configure optical modules on a Huawei switch



Overview

Displaying Optical Module Information A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optica.

Key Takeaways

Configuring optical modules on a Huawei switch involves proper physical installation, verifying compatibility, and using CLI commands to enable and monitor the interfaces.

Physical Installation

Wear an antistatic strap to prevent static damage to the module and switch components. Orient the module correctly: the gold fingers should face down, and the module should not be reversed. Insert the module gently into the slot, ensuring the snap clicks into place.

Avoid forcing the module to prevent damage. Check fiber type compatibility: single-mode modules must connect to single-mode fibers, and multimode modules to multimode fibers.

Software Configuration

Check interface status: Use the command display interface brief to list all interfaces and identify the one where the optical module is installed. Verify module information: Run display interface to view link status, module type, and traffic statistics. Enable the interface: If the port is administratively down, use interface followed by undo shutdown to activate it.

Configure interface attributes: For high-bandwidth interfaces (e.g., 40GE), you can split them into multiple lower-bandwidth interfaces using the interface split function. After configuration, save and restart the switch for changes to take effect.

Troubleshooting Tips

Check optical power levels: Use display transceiver interface verbose to ensure received and transmitted power are within normal ranges. Avoid mismatched speeds: Do not use a 10G module on a 1G interface or vice versa. Loopback test: Connect the fiber jumper to the same module to verify port functionality.

Rollback caution: Rolling back a configuration after interface split does not restore the original settings; manual reconfiguration may be required.

Best Practices

Start using split interfaces from the first connected optical fiber to ensure proper indicator status. When stacking switches, the split configuration is automatically applied to new stack members with the same model and stack ID. Always verify module compatibility with the switch model and interface type before installation.

By following these steps, you can ensure that optical modules are correctly installed, configured, and monitored on Huawei switches, minimizing downtime and optimizing network performance.

Article Content

Displaying Optical Module Information

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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 modules cannot ensure transmission reliability and may affect service

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.

S210 Series Switches Installing an Optical Module

While keeping the handle of the transceiver module closed, grasp the two sides of the transceiver module with your thumb and forefinger and gently pull it. If the transceiver module does not pull out, it

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

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 follow the installation steps mentioned above and pay attention to the

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. ...

Huawei Optical Switch View Optical Module Commands

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as follows:

6.3.9 Installing Cables and Optical Modules. Huawei E9000

Step 2 Insert the optical module and optical cable into the 10GE or 8 Gbit/s FC optical port. 1. Determine the type and installation position of the optical module based on site requirements. 2. Horizontally

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

[ENW-P-C-2021025] Warning of a Power Module Mismatch Alarm Reported by Some S Series Fixed Switches - 20210409 [ENW-P-C-2020243] Warning About Protocol Flapping on an S Series Fixed

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

S310-48P4S

S200, S300, S500, and S600 Hardware Description This document describes all the configuration commands of the device, including the command function, format, parameters, views, default level,

CloudEngine S5700 Series Switches Hardware Description (V600)

When a switch has multiple power modules installed, the multiple power modules work in load balancing mode to provide power for PDs.

Huawei CloudEngine S5755-S Series Twins Switches Datasheet

Introduction Huawei CloudEngine S5755-S-HT series twins switches are next-generation, high-reliability switching platforms. The series delivers system-level reliability through an innovative architecture

Mga Madalas Itanong (FAQ) tungkol sa Paglilisensya ng Huawei OLT

Ang pag-activate ng mga PON port sa mga Huawei OLT ay isang karaniwang punto ng kalituhan para sa mga network engineer at mga espesyalista sa pagkuha. Ang modelo ng paglilisensya ay hindi

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

The primary command to verify PON port status on Huawei OLTs is display port info. This command provides critical operational data, including whether the ONU auto-discovery feature is enabled

Types of Optical Modules

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a center wavelength of 850 nm, 1310 nm, or 1550 nm, whereas a

Ethernet Switch Port Types Explained 2026: RJ45,

A complete engineering guide to Ethernet switch port types: RJ45, SFP, SFP+, SFP28, QSFP+, QSFP28, Combo, Stack, PoE, access/trunk/hybrid modes.

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