

Huawei switch optical module not working



AI Overview

Huawei optical modules may fail due to compatibility issues, incorrect installation, fiber mismatches, or abnormal transmit/receive power levels. Common Causes

Module Compatibility: The optical module may not be certified for Huawei switches. CE series and other Huawei switches require certified modules; uncertified modules may prevent the interface from going Up. Look for the Huawei logo on the module label to confirm certification.

Fiber Type Mismatch: Single-mode modules (1310 nm or 1550 nm) must use single-mode fiber (yellow), and multimode modules (850 nm) must use multimode fiber (orange). Mismatched fiber and module types can prevent connectivity.

Improper Installation: If the module is not fully inserted or the latch is not secured, the device may not recognize it. Contaminated optical receptacles can also reduce coupling efficiency or damage the fiber pin.

Abnormal Optical Power: Transmit or receive power that is too high or too low can trigger alarms and prevent the link from establishing. Overloading the module with high-power signals can permanently damage it.

Port Configuration Issues: Differences in working rate, duplex mode, or negotiation settings between the two ends of the optical interface can prevent the port from going Up. Combo ports must be configured correctly to operate as optical ports.

Troubleshooting Steps

Verify Module Certification: Ensure the module is Huawei-certified. Replace uncertified modules with certified ones if necessary.

Check Fiber Compatibility: Confirm that the fiber type matches the module type. Replace fiber or module if mismatched.

Inspect Installation: Remove and reinsert the module until a click is felt, ensuring the latch is secured. Clean the optical receptacle if contaminated.

Check Alarms and Power Levels: Use the commands `display interface transceiver` and `display interface transceiver verbose` to check for LOS alar...

Article Content

Troubleshooting Optical Module Issues

Troubleshooting Optical Module Issues Symptom An optical port cannot go Up. The optical module cannot be properly identified and optical module information cannot be obtained. After

ALM-135462942 The optical module is invalid 136221

Replace the optical module, and check whether the alarm is cleared. If so, the alarm handling ends. If not, collect alarms, logs, and configurations, and contact technical support personnel. None. Was

Installing Optical Module Tutorial For HUAWEI Switch

Installation module tutorial of HUAWEI S5700-24TP-SI (AC) switch To avoid component damage caused by improper operation, we should strictly follow the following procedures for installation.

Optical Module: Typical Optical Module Troubleshooting Procedure

If it is not a Huawei-certified optical module, replace it with a Huawei-certified optical module. If the optical module is installed on a GE port, run the display interface GigabitEthernet x/x/x command to

An Optical Module Does Not Send Optical Signals

Remove and reinstall the optical module. If the fault persists, replace the optical module with a normal one of the same type to check whether the optical module is faulty.

Optical Module: An Optical Module Does Not Send Light Signals

Procedure Use an optical power meter to test whether the transmit power of the optical module is normal. If not, replace the optical module.

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.

Replacing an Optical Module

Replacing an Optical Module Context Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

FAQs About Optical Modules

For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description. The following figure shows the

Typical Troubleshooting Cases of Optical Module

Check whether the optical modules are Huawei-certified ones. If not, contact the supplier of the optical modules. If possible, remove and reinstall the optical modules to check whether the fault is rectified.

Case Study: Optical Modules on the Local and Remote Devices

The optical module installed on the optical interface is not certified for Huawei data center switches. The optical module type does not match the optical fiber type.

Replacing an Optical Module

Optical modules are hot swappable, and you do not need to power off the switch when replacing optical modules. Optical modules are electrostatic-sensitive components; therefore, you must take ESD

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

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 ...

Troubleshooting S Series Switch Port and Interface Problems

Huawei is not responsible for any problem caused by the use of non-Huawei certified optical modules and will not fix such problems. Run the display transceiver interface command to check the

port is disconnected due to optical module faulty

Use the idle optical module on the storage device to exchange with PO and check whether the fault is rectified. If the fault persists, it indicates that the optical module is not faulty. If

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

Non-certified optical or copper modules cannot ensure transmission reliability and may affect service stability. Huawei is not liable for any problem caused by the use of non-certified optical or copper

Optical Interface Interconnection Is Abnormal on CE Switches ...

After an SFP-GE copper or optical module is installed on a GE or 10GE optical interface, or a high-speed cable is installed on a 40GE optical interface, the interface works in auto-negotiation

Common problems and solutions in the installation and use of optical ...

First, we need to confirm whether the type of optical fiber jumper and optical transceiver is correct, and second, whether the optical fiber jumper is connected to the wrong side.

Optical Module Installation and Replacement

Do not touch the edge connector of an optical module during the installation. Install an optical module on a port before connecting optical fibers to the transceiver module. Install dust plugs on idle optical ports.

Port: Optical Ports on the AC Cannot Go Up

Use an optical fiber to perform a loopback test on the Huawei device. If the link goes Up, the Huawei device is working properly, and the fault may occur on the peer device or the link.

Huawei CloudEngine 6885L Data Center Switch Datasheet

Huawei CloudEngine 6885L Data Center Switch Datasheet Huawei CloudEngine 6885L series switches are next-generation high-performance and high-density GE/10GE/25GE access switches designed

Optical Modules Fail to Communicate

Devices must use optical modules certified by Huawei. Those that are not certified by Huawei cannot ensure service reliability, and the corresponding optical interfaces may fail to go up.

Displaying Optical Module Information

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

Displaying Optical Module Information

The working temperature range of the optical module does not meet requirements, causing the optical power to be reduced at a high temperature. Subsequently, services are interrupted.

Cisco SFP and SFP+ Transceiver Module Installation Notes

Each SFP transceiver module supports the Cisco Quality Identification (ID) feature which allows a Cisco switch or router to identify and validate that the transceiver module is certified and

Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how to resolve issues encountered

Contact Us

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