Huawei optical module cannot start



Overview

If the optical module is installed on a GE port, run the display interfaceGigabitEthernet x/x/x command to view port information when the optical module is inserted, including the rate and wavelength.

Key Takeaways

If a Huawei switch optical module fails to start, the issue may be due to compatibility, port configuration, optical power, or hardware faults, and can often be resolved through systematic checks and corrective actions. Step 1: Verify CompatibilityEnsure that the optical module matches the switch port specifications. Single-mode modules must be used with single-mode fibers, and multimode modules with multimode fibers.

Avoid using modules with a higher data rate than the interface supports, e.g., a 10G module on a 1G port can prevent startup. Step 2: Check Port StatusRun the command: CodeCopydisplay interface to check the port status. If the port shows Administratively DOWN, it is disabled and must be enabled.

Also, verify the link status and transceiver type to ensure the module is recognized. Step 3: Inspect Optical PowerUse an optical power meter to measure both transmit and receive power. If the transmit power is below the module's specification, the optical bores may be contaminated.

Clean them with a cotton swab and cover idle modules with dust plugs. If the receive power is abnormal, check the fiber connection and module integrity. Step 4: Perform Loopback TestConnect the fiber jumper from the module back to the same port to perform a loopback test.

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This helps determine whether the issue is with the module or the fiber link. Step 5: Reinstall or Replace ModuleRemove and reinstall the optical module to see if the fault resolves. If the problem persists, the module itself may be faulty and require replacement.

Step 6: Check Software VersionRun: CodeCopydisplay version to verify the switch software version. Upgrading to V100R006C01SPC100 or later may resolve compatibility or recognition issues. Step 7: Reboot or Power CycleIf all else fails, reboot the switch or power cycle it.

Exercise caution on live networks, as this may temporarily disrupt services. Step 8: Contact Technical SupportIf the optical module still does not start after all checks, contact Huawei technical support for further assistance. By following these steps—compatibility check, port verification, optical power measurement, loopback testing, software update, and module replacement—most optical module startup issues on Huawei switches can be diagnosed and resolved.

Article Content

Optical Module: Typical Optical Module Troubleshooting Procedure

If the optical module is installed on a GE port, run the display interfaceGigabitEthernet x/x/x command to view port information when the optical module is inserted, including the rate and wavelength.

Troubleshooting Guidelines for Optical Modules

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. If the fault persists,

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 ...

Optical Module Solutions for Huawei S5700/S5720 Series Switches

Problem: All optical ports cannot be connected, and the indicator lights are not on. Solution: To solve this problem, you can follow these steps: Check if the fiber and optical modules

Huawei S3700, S5700 and S6700 Switches Support Guide, Manuals

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

How To View Optical Transceiver Information On Huawei Switches

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Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

Optical Link Failure Troubleshooting: Switch-to-Switch (SMF/MMF)

Network link down? Learn how to troubleshoot optical link failures between network switches. Essential guide covers checking optical modules, single-mode (SMF) vs. multimode (MMF)

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

01-13 TROUBLESHOOTING STARTUP FAILURES

13.1 Troubleshooting Guidelines for Startup Failures 13.1.1 A Terminal Does Not Display Anything or Displays Garbled Characters Fault Description After a terminal connecting to a router starts, it cannot

ALM-3276800044 An Optical Module Installed on the Device Is ...

If this optical module was delivered from Huawei earlier, run the transceiver phony-alarm-disable command to disable the alarm function for non-Huawei customized optical modules.

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,

What is an Optical Module?

Explore the world of optical modules, essential components in optical fiber communication. Learn about the different types of optical modules, their functions, packaging, and key technical concepts like

Huawei CloudEngine S6750-H Series 10GE Switches Datasheet

Datasheet Huawei CloudEngine S6750-H Series 10GE Switches Datasheet Huawei CloudEngine S6750-H series 10GE switches are next-generation enterprise-class core and aggregation switches

Optical Module: Typical Optical Module Troubleshooting Procedure

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Device Power-On: An AP Cannot Be Powered On or Fails to Start After Power-On Optical Module: Typical Optical Module Troubleshooting Procedure Optical Module: The Device Cannot Display Any

S5735-S48T4X Overview and Enterprise Role

The S5735-S48T4X is a high-performance enterprise Ethernet switch designed for modern campus networks, data access layers, and aggregation scenarios. As part of the Huawei S5735 series, this

Optical Module: The Device Cannot Display Any Optical Module ...

Services on the device are affected when the optical module is removed and inserted, or the device is restarted or upgraded. It is recommended that customer''s permission be obtained

Optical Module: The Device Cannot Display Any Optical Module ...

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

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 modules cannot ensure transmission reliability and may affect service

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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