

Huawei does not recognize optical modules



AI Overview

Huawei devices may fail to recognize optical modules due to hardware faults, compatibility issues, or improper installation, and can often be resolved through inspection, testing, and configuration checks.

Common Causes

- **Faulty or Improperly Installed Module:** The optical module may be defective or not securely seated in the port. Reinstalling the module or testing it in another compatible port can help identify this issue .
- **Compatibility Issues:** Huawei devices may not recognize non-Huawei-certified modules or modules incompatible with the port type, speed, or fiber type (single-mode vs. multi-mode). Using a module with a higher rate than the interface can also cause recognition failure .
- **Optical Power Problems:** Abnormal transmit or receive optical power can prevent the device from detecting the module. Testing with an optical power meter or using the display interface transceiver verbose command can help verify power levels .
- **Port Configuration Mismatch:** Differences in speed, duplex mode, or negotiation settings between the port and the module can prevent recognition. Ensuring both ends of the link have matching configurations is essential .
- **Contaminated Optical Bores:** Dust or dirt on the optical connectors can block signal transmission. Cleaning the optical bores with a cotton swab and using dust caps on idle modules can resolve this .

Troubleshooting Steps...

Article Content

Dec 18, 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

Jun 09, 2026

Troubleshooting Optical Module Issues

Check whether the transmit optical power and receive optical power of the optical module are within the normal range.

Apr 18, 2026

How Can I Determine Whether an Optical Module Is Officially

Therefore, you can check whether an alarm is generated to determine whether an optical module is officially delivered

May 28, 2026

Replacing an Optical Module

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

Jan 27, 2026

Optical Interface Interconnection Is Abnormal on CE Switches ...

Possible Causes The optical module model does not match. The transmit or receive optical power of an optical

Aug 26, 2025

Troubleshooting Guidelines for Optical Modules

If the optical module type does not match the interface (fault ID: 136203), check whether the optical module rate is

Mar 03, 2026

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

Jul 15, 2026

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

Apr 01, 2026

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

May 10, 2026

How To View Optical Transceiver Information On Huawei Switches

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

Nov 10, 2025

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

Aug 21, 2025

WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

Optical modules that are not certified for Huawei data center switches cannot ensure transmission reliability and may affect service

Nov 28, 2025

Information About an Optical Module Cannot Be Read

Check whether the optical module has been certified for Huawei Ethernet devices. If not, contact the supplier of the

Feb 10, 2026

Checking the Optical Module Type

Some non-certified optical modules are not designed in compliance with EMC standards and have low anti-interference capability.

Oct 28, 2025

ALM-3276800044 An Optical Module Installed on the Device Is Not a ...

If this optical module is not delivered from Huawei or is not customized for Huawei, replace it with a Huawei

Jan 06, 2026

ALM-135471444 hwOpticalUnauthorized_Common Alarms_V600

If the optical module is delivered by Huawei in the early stage, the system is not affected. If not, the optical module

Oct 31, 2025

Displaying Optical Module Information

The optical module design does not comply with the EMC, its anti-electromagnetic interference capability is low, and the optical

Jun 23, 2026

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

Procedure Check whether the optical modules are Huawei-certified ones. If not, contact the vendor of the optical

Dec 05, 2025

Optical Modules Fail to Communicate

Procedure Check whether the optical modules have been certified by Huawei. Devices must use optical modules certified by Huawei.

Aug 20, 2025

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

Nov 27, 2025

Checking the Optical Module

Ensure that the rate, wavelength, and transmission distance of the interconnected optical modules are consistent. Using the same

Oct 03, 2025

FAQs About Optical Modules

For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch

Sep 24, 2025

Optical Interface FAQ: Transceiver Compatibility Guidelines for

Q7: What is the optical module interoperability standard for different Huawei products? Broad interoperability between Huawei

Mar 28, 2026

ALM-3276800022 Indicates that optical module power abnormal

Run the display transceiver verbose command to check the power of the optical module. Check whether the interface

Mar 18, 2026

Optical Module Solutions for Huawei S5700/S5720 Series Switches

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

May 08, 2026

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

May 21, 2026

Replacing an Optical Module

Replacing an Optical Module Context Invisible laser beams will cause eye damage. When replacing optical modules, do not look into

Nov 02, 2025

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

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