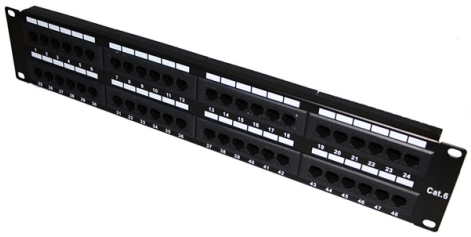
Huawei third-party optical module does not emit light



Overview

The working temperature range of the optical module does not meet requirements, reducing the optical power at a high temperature.

Key Takeaways

A third-party Huawei optical module may not emit light due to installation issues, contamination, hardware faults, or incompatibility with Huawei devices, and requires systematic troubleshooting.Common Causes
• Faulty or Improperly Installed Module The optical module may be defective or not securely seated in the port. Ensure the module is fully inserted and locked in place, then check if the device recognizes it using the command display devm/ports/port[position="GE0/0/11"]/optical-module/all .

• Contaminated Optical Bores Dust or debris on the optical connectors can block laser transmission. Clean the optical bores with a cotton swab and cover idle modules with dust caps to prevent contamination .

• Laser Transmission Circuit Fault If the transmit optical power is abnormal or zero, the internal laser circuit may be damaged. Use an optical power meter to measure the transmit power. If it is below specification, the module may need replacement .

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

• Third-Party Module Compatibility Huawei devices may generate alarms or fail to fully recognize non-certified SFPs. While many third-party modules function normally, some may not emit light if the device enforces strict certification checks . Huawei provides commands to disable alarms for uncertified modules, but this does not fix hardware faults .

• Software or Firmware Issues Outdated switch firmware can cause recognition or transmission problems. Check the switch software version and consider upgrading to a recommended version (e.g., V100R006C01SPC100 or later) if issues persist .
Recommended Troubleshooting Steps
• Remove and reinstall the optical module to ensure proper seating.

• Clean the optical bores and inspect for physical damage.

• Measure transmit and receive power using an optical power meter.

• Test the module in another compatible port or device to confirm if it is faulty.

• If using a third-party module, consider disabling non-certified alarms using the command transceiver non-certified-alarm disable to avoid false alarms, but note this does not resolve actual transmission issues .

• Replace the module with a Huawei-certified optical module if the problem persists.

• Collect logs and contact Huawei technical support if the module still does not emit light . By following these steps, you can systematically identify whether the issue is due to hardware failure, contamination, installation, or compatibility and take appropriate corrective action.

Article Content

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

Optical Module: An Optical Module Does Not Send Light Signals

Optical Module: Typical Optical Module Troubleshooting Procedure Optical Module: The Device Cannot Display Any Optical Module

How Huawei CE & S Series Switches Handle Non-Certified Optical

In past projects and testing experience, it was commonly believed that Huawei CE series switches would not generate alarms when

Common Non-Certified Optical Module Alarm Messages For Switches

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Moduletek Laboratory has sorted out mainstream switch brands with customized compatibility restrictions, and

Optical Interface FAQ: Transceiver Compatibility Guidelines for

Q1: Can I use third-party optical modules in Huawei OSN equipment? Yes, physically they can often be inserted, but Huawei strongly

How To Turn Off Alarms For Third-Party Modules On Huawei Switches

Huawei switches perform authentication on inserted optical modules. By default, numerous alarm messages will be

Stop messages for not Huawei certified SFP

Huawei is very open when it comes to 3rd party SFP. In most cases, all SFPs work, but it generates a message every

transceiver non-certified-alarm disable

When a third-party optical module authenticated by other vendors is inserted into a port, run the transceiver non-certified-alarm

How to Fix Optical Transceiver Compatibility Errors on Cisco, Huawei ...

Step-by-step CLI commands to fix optical transceiver compatibility errors on Cisco IOS, NX-OS, Huawei VRP, and

Checking the Optical Module Type

The working temperature range of the optical module does not meet requirements, reducing the optical power at a high temperature.

Displaying Optical Module Information

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

Troubleshooting Guidelines for Optical Modules

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

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

The optical module is not a Huawei-certified optical module. A software bug occurs, leading to a failure to read optical module

Troubleshooting Optical Module Issues

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Troubleshooting Optical Module Issues Symptom An optical port cannot go Up. The optical module cannot be properly

Replacing an Optical Module

The CE12800E series switches must use Huawei data center switches certified optical modules. Non-certified optical modules

Displaying Optical Module Information

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

Displaying Optical Module Information

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

Replacing an Optical Module

A router must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and

Replacing an Optical Module

Replacing an Optical Module Context Never look directly into an optical module or the ends of optical fibers. Optical modules and

Huawei Technical Support

Huawei Technical Support

Typical Troubleshooting Cases of Optical Module

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

The Third-Party Optical Modules Connecting to the NE80E Cause

Check the module type under slot 10 and the module type under slot 1. It is found that the module types are different.

Huawei Technical Support

Huawei Technical Support

Optical Module Installation and Replacement

The method used to install a copper transceiver module is the same, except that the copper transceiver module connects to a

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Typical Troubleshooting Cases of Optical Module

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

The Third-Party Optical Modules Connecting to the NE80E Cause

Check the module type under slot 10 and the module type under slot 1. It is found that the module types are different.

Huawei Technical Support

Huawei Technical Support

Optical Module Installation and Replacement

The method used to install a copper transceiver module is the same, except that the copper transceiver module connects to a

How to Detect Abnormal Optical Module When the Power cannot Be

The optical channel of NE80E shows that NE80E receives the light from NE40E only, while the interface of NE40E is Down. The

Troubleshooting for Optical Modules on Huawei Switch

The type of optical modules used on the two ports is not restricted. For example, a port with an XFP optical module can communicate

What Is an Optical Module and Its FAQs (V300)

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a

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

Displaying Optical Module Information

Displaying Optical Module Information You can use the display commands to view information about the optical module on an

How Do I Ensure that the Transmit and Receive Optical Power of an ...

The diagnostic information of the optical module displays the current transmit and receive optical power values, as well as the default

Checking the Optical Module

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Use an optical power meter to test the optical power attenuation of each part of the link and fix the abnormal part. Change the optical

Fundamentals of an Optical Module

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter

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

Installing an Optical Module

The method used to install a copper transceiver module is the same, except that the copper transceiver module connects to a

Displaying Optical Module Information

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

Troubleshooting Guidelines for Optical Modules

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

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

The optical module is not a Huawei-certified optical module. A software bug occurs, leading to a failure to read optical module

Troubleshooting Optical Module Issues

Troubleshooting Optical Module Issues Symptom An optical port cannot go Up. The optical module cannot be properly

Replacing an Optical Module

The CE12800E series switches must use Huawei data center switches certified optical modules. Non-certified optical modules

Displaying Optical Module Information

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

Displaying Optical Module Information

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

Replacing an Optical Module

A router must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and

Replacing an Optical Module

Replacing an Optical Module Context Never look directly into an optical module or the ends of optical fibers. Optical modules and

Huawei Technical Support

Huawei Technical Support

Typical Troubleshooting Cases of Optical Module

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

The Third-Party Optical Modules Connecting to the NE80E Cause

Check the module type under slot 10 and the module type under slot 1. It is found that the module types are different.

Huawei Technical Support

Huawei Technical Support

Optical Module Installation and Replacement

The method used to install a copper transceiver module is the same, except that the copper transceiver module connects to a

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

Optical Module: An Optical Module Does Not Send Light Signals

Optical Module: Typical Optical Module Troubleshooting Procedure Optical Module: The Device Cannot Display Any Optical Module

How Huawei CE & S Series Switches Handle Non-Certified Optical

In past projects and testing experience, it was commonly believed that Huawei CE series switches would not generate alarms when

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Common Non-Certified Optical Module Alarm Messages For Switches

Moduletek Laboratory has sorted out mainstream switch brands with customized compatibility restrictions, and

Optical Interface FAQ: Transceiver Compatibility Guidelines for

Q1: Can I use third-party optical modules in Huawei OSN equipment? Yes, physically they can often be inserted, but Huawei strongly

How To Turn Off Alarms For Third-Party Modules On Huawei Switches

Huawei switches perform authentication on inserted optical modules. By default, numerous alarm messages will be

Stop messages for not Huawei certified SFP

Huawei is very open when it comes to 3rd party SFP. In most cases, all SFPs work, but it generates a message every

transceiver non-certified-alarm disable

When a third-party optical module authenticated by other vendors is inserted into a port, run the transceiver non-certified-alarm

How to Fix Optical Transceiver Compatibility Errors on Cisco, Huawei ...

Step-by-step CLI commands to fix optical transceiver compatibility errors on Cisco IOS, NX-OS, Huawei VRP, and

Checking the Optical Module Type

The working temperature range of the optical module does not meet requirements, reducing the optical power at a high temperature.

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

Optical Module: An Optical Module Does Not Send Light Signals

Optical Module: Typical Optical Module Troubleshooting Procedure Optical Module: The Device Cannot Display Any Optical Module

How Huawei CE & S Series Switches Handle Non-Certified Optical

In past projects and testing experience, it was commonly believed that Huawei CE series switches would not generate alarms when

Common Non-Certified Optical Module Alarm Messages For Switches

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Moduletek Laboratory has sorted out mainstream switch brands with customized compatibility restrictions, and

Optical Interface FAQ: Transceiver Compatibility Guidelines for

Q1: Can I use third-party optical modules in Huawei OSN equipment? Yes, physically they can often be inserted, but Huawei strongly

How To Turn Off Alarms For Third-Party Modules On Huawei Switches

Huawei switches perform authentication on inserted optical modules. By default, numerous alarm messages will be

Stop messages for not Huawei certified SFP

Huawei is very open when it comes to 3rd party SFP. In most cases, all SFPs work, but it generates a message every

transceiver non-certified-alarm disable

When a third-party optical module authenticated by other vendors is inserted into a port, run the transceiver non-certified-alarm

How to Fix Optical Transceiver Compatibility Errors on Cisco, Huawei ...

Step-by-step CLI commands to fix optical transceiver compatibility errors on Cisco IOS, NX-OS, Huawei VRP, and

Checking the Optical Module Type

The working temperature range of the optical module does not meet requirements, reducing the optical power at a high temperature.

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved