

# Huijue checks optical module alarms





## Overview

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Run the `display transceiver slot slot-id verbose` command in the system view to check whether the transmit power Tx Power of the optical module is within the allowed range. Huawei switches will authenticate the access optical module, and when the access module is verified to be non-Huawei original, a large number of alarm messages will pop up in the default state; at the same time, Huawei also provides commands to turn off the alarms of non-Huawei data center.



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### Checking Whether Optical Module Types Match

For example, the transmission distance supported by OM1 optical fibers in the preceding command output is 150 m. If the actual transmission distance exceeds 150 m, use an optical fiber with a longer

### ALM-3276800033 Optical Module Detection Failed\_V200 LSW

If so, collect alarm information and configuration information, and then contact technical support personnel. If not, replace the optical module with a Huawei-certified one.



### Disabling the Optical Module Alarm Function

The device has two types of optical module power alarms: warning and alarm. A warning is reported when the difference between the actual power and vendor-defined threshold is not great. It can also

### Checking Whether the Rx and Tx Optical Power of the Interfaces at

If only the number of B3 bit errors increases, check whether the link directly connecting the remote router and SDH transmission device is working stably. If the link is a pure WDM link, check the



### **Laser Module Mismatch**

The logical configuration and physical optical module type mismatch lead to reporting the LASER\_MODULE\_MISMATCH alarm, the client side SFP module customer used is grey module, so



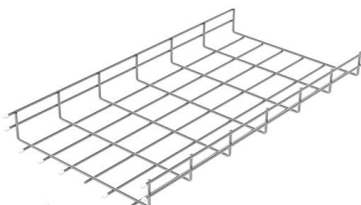
### **How Huawei CE & S Series Switches Handle Non-Certified Optical**

Huawei CE and S series switches both incorporate an optical module authentication mechanism. On S series switches, authentication is strict and alarm notifications



### **ALM-3276800022 Indicates that optical module power abnormal**

Procedure Run the display transceiver verbose command to check the power of the optical module. Check whether the interface status and data forwarding are normal. If so, run the





## **SFP CHECK\_SUM\_FAILED Alarm: Causes & Fix , EDGE Optical**

CHECK\_SUM\_FAILED means your switch cannot verify the SFP EEPROM data. Why third-party transceivers trigger this alarm and how to clear it without swapping the module.



### **Disabling the Optical Module Alarm Function**

Some optical modules can continue working properly when the actual optical power is at the warning level. You can disable the alarm function for these optical modules to prevent these optical modules

### **Disabling the Alarm Function for Optical Modules That Are Not**

This facilitates optical module management and maintenance. To avoid these alarms, disable the alarm function for optical modules that are not certified for Huawei data center switches.



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## Setting Optical Power Alarm Thresholds

The default optical power alarm thresholds of an optical module are fixed and cannot be changed. These thresholds are determined through extensive testing and verification.

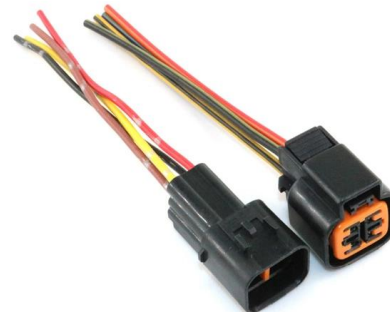


## Optical Module: Typical Optical Module Troubleshooting Procedure

Check the model of the faulty optical module. 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

## Checking Whether Optical Module Types Match

Replace it with a Huawei-certified optical module. If an LOS alarm is displayed in the Alarm information field, the local interface does not receive any optical signal from the remote interface. The remote



## Common Non-Certification Alarm Messages For Switches

To restrict the use of third-party modules on their devices, host manufacturers usually conduct inspections on the optical modules that are connected, including but not limited to reading the optical



## Disabling the Alarm Function for Optical Modules That Are Not

**Context** If optical modules that are not certified for Huawei data center switches are used on devices, the devices will generate a large number of alarms to prompt users to replace these optical modules with



## Configuring the Alarm Function for Optical Modules

You can configure the alarm thresholds for the power of optical modules to shield unnecessary alarms. To check alarm information, diagnostic information, and manufacturing information about an optical

### ALM-3276800000 Indicates that SFP is not certified 136192

**Procedure** 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



## Configuring the Alarm Function for Optical Modules

You can configure the alarm thresholds for the power, temperature, current, and voltage of optical modules, and the interval at which the inter-integrated circuit (I2C) collects optical module alarm



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

By default, numerous alarm messages will be generated when a non-original Huawei module is used. Huawei provides dedicated commands to disable alarms triggered by uncertified



IP65 / IP67 Sealing Design



Reserved Bottom Mounting Holes



### Huawei enterprise switches

See the interface module via the optical display command information, including general information of the optical module, manufacturing information, and alarm information.

### ALM-3276800022 Indicates that optical module power abnormal 136194

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. Was this page



### Common Faults of CE Switches and How to Locate Faults

To ensure normal communication between two optical interfaces, check for transmit and receive power alarms after the two interfaces have optical modules installed and connected using an optical fiber.



### **ALM-135462942 The optical module is invalid 136221**

Procedure Run the display transceiver slot slot-id verbose command in the system view to check whether the transmit power Tx Power of the optical module is within the allowed range. If so, services



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

Huawei switches will authenticate the access optical module, and when the access module is verified to be non-Huawei original, a large number of alarm messages will pop up in the

### **DEVN/1/hwOpticalUnauthorized\_active**

In versions earlier than V200R001C00, after the alarm function is disabled, the generated alarms will not be automatically cleared. To clear these alarms, remove and then install the optical module.



### **Huawei Technical Support**

Learn how to display optical module information on Huawei devices using specific commands and understand the diagnostic details of optical modules.



## Contact Us

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