

## Article Overview

Huawei switches can operate with uncertified optical modules, but these modules may trigger alarms and pose compatibility or operational risks.

## Overview of Uncertified Optical Modules

Huawei Ethernet switches perform authentication on inserted optical modules. When a module is not certified by Huawei, the switch generates alarms to indicate potential issues with compatibility or performance . Certification ensures that the optical module meets Huawei's standards for installation, signal transmission, fault tolerance, electromagnetic compatibility, and environmental performance . Uncertified modules may have non-standard sizes, defective data bus designs, or improper edge connectors, which can lead to interface damage, abnormal data bus behavior, or incorrect temperature monitoring .

## Common Issues with Uncertified Modules

- o Installation problems: Non-standard module sizes may prevent proper installation or block neighboring ports .
- o Data bus abnormalities: Some modules have inherent defects that can disrupt data transmission .
- o Hardware damage: Improper edge connector dimensions can short-circuit or damage optical interfaces .
- o False alarms: Non-standard temperature monitoring may trigger incorrect system alarms .

## Managing Alarms and Usage

Huawei provides commands to disable alarms for non-certified modules without affecting connectivity. For example, on Huawei CE6860 switches, the transceiver non-certified-alarm disable command suppresses alarm messages while allowing the module to link up normally . Early-delivered Huawei modules may also trigger alarms if vendor information is not recorded; these can be managed using the same command .

## Recommendations

- o Use certified modules whenever possible to ensure full compatibility and avoid potential hardware or data issues .
- o Disable alarms cautiously if using third-party modules, understanding that this does not guarantee full compliance with Huawei's operational standards .
- o Monitor system logs for any abnormal behavior when using uncertified modules to prevent long-term damage or data loss . In summary, while Huawei switches can function with uncertified optical modules, doing so carries risks related to hardware integrity, data reliability, and system monitoring. Proper management, including alarm suppression and careful monitoring, is essential when using non-certified

modules.

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

Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for Huawei

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

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

Some non-Huawei-certified optical modules have defects in data bus designs. Using such an optical module on a router causes

Huawei routers must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical

An optical module that is not certified for Huawei Ethernet switches was installed. Alarms may be generated because vendor

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

Context If optical modules that are not certified for Huawei data center switches are used on devices, the devices will generate a

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module

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

Troubleshooting for Optical Modules on Huawei Switch Many friends feedback that one problems occurred

## Huawei uncertified optical modules

when using optical

Accessories Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify Huawei-Certified Switch

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

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

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