Non-Huawei optical modules



Overview

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

Key Takeaways

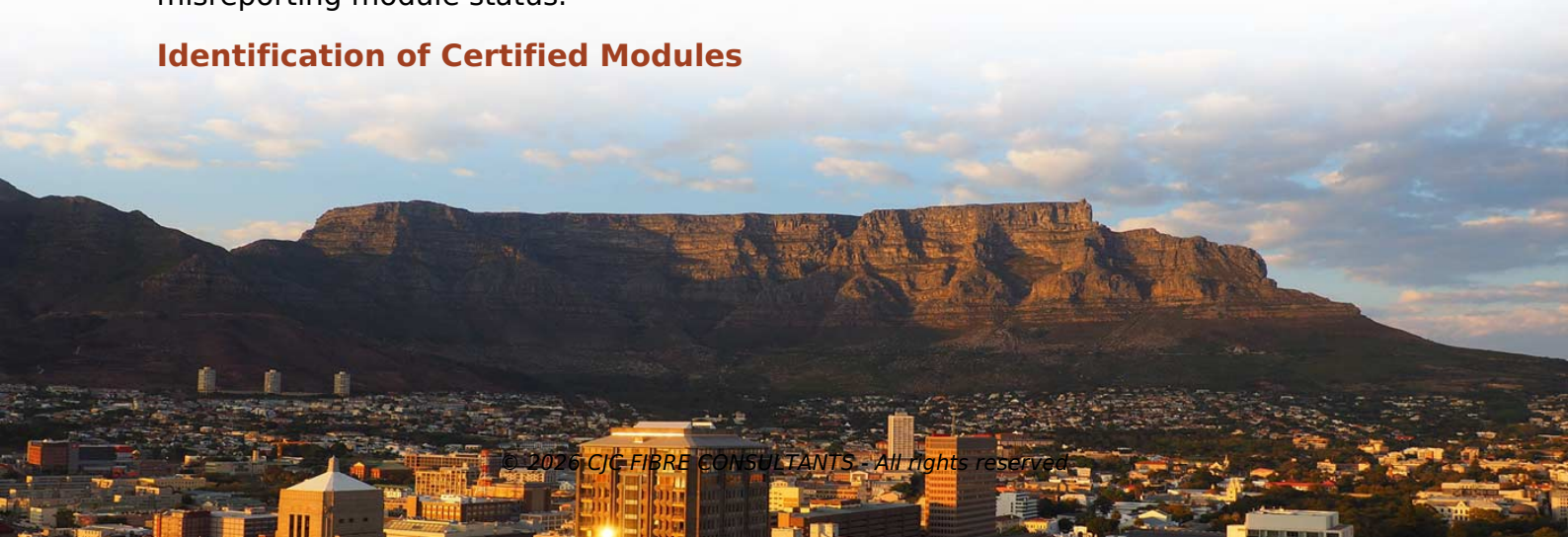
Non-Huawei certified optical modules can function in Huawei switches but may cause operational issues, alarms, and potential hardware damage.

Risks of Using Non-

Certified ModulesNon-Huawei certified optical modules are not fully verified for compatibility and performance on Huawei devices. Potential risks include: Physical incompatibility: Non-standard structure or size may prevent installation on adjacent ports or violate Multi-Source Agreement (MSA) standards, causing mechanical interference with other modules. Data bus defects: Some third-party modules may have design flaws that suspend the switch's data bus, leading to unreadable data and service interruptions.

Electrical damage: Improper edge connector sizes can short-circuit optical interfaces, potentially damaging the switch hardware. Incorrect monitoring and alarms: Temperature or diagnostic readings may be unnormalized, triggering false alarms or misreporting module status.

Identification of Certified Modules



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To ensure reliability, Huawei recommends using certified modules. Certified modules can be identified by: Labeling: Certified modules display "HUAWEI" on the label. Command verification: On devices running V600 or later, commands like display interface transceiver or display device elabel can confirm certification by showing Huawei as the vendor and a manufacturing date after July 1, 2013.

Managing Alarms for Third-Party Modules

Huawei switches authenticate inserted optical modules and generate alarms for non-certified modules. These alarms do not prevent the module from linking up but may clutter logs. To manage this: Use the command transceiver non-certified-alarm disable in system view to suppress alarms while allowing normal operation.

Note that disabling alarms does not mitigate the underlying risks of using non-certified modules, such as potential hardware damage or data bus issues.

Recommendations

Prefer certified modules for critical or high-speed links to ensure reliability and maintain warranty support. If using third-party modules, monitor system performance closely and consider disabling alarms to reduce log noise, but remain aware of potential operational risks. Consult Huawei technical support to verify module certification status or for guidance on safe deployment of non-certified modules.

Using non-Huawei certified optical modules can be a cost-saving option, but it carries significant risks to network stability, hardware integrity, and support eligibility. Proper identification, monitoring, and cautious deployment are essential to minimize potential issues.

Article Content

Risks of Using Non-Huawei-Certified Optical Modules

Some non-Huawei-certified optical modules are not designed in compliance with EMC standards and have low anti-interference capability. Additionally, they bring electromagnetic

ALM-3276800000 Indicates that SFP is not certified 136192_Huawei ...

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.

ALM-135471444 hwOpticalUnAuthorized_Common Alarms_V600

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If the optical module is delivered by Huawei in the early stage, the system is not affected. If not, the optical module may be abnormal, causing service interruption.

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 generated when a non-original Huawei module is used. Huawei

How To Turn Off Alarms For Third-Party Modules On H3C Switches

By default, a large number of alarm messages will be generated if the module is verified as non-H3C original. H3C provides CLI commands to suppress these optical module alarm

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Overview When procuring an OLT (Optical Line Terminal) board for your fiber access network, one of the most critical pre-sales questions is whether the necessary GPON SFP optical ...

01-09 PLUGGABLE MODULES FOR INTERFACES

Some non-Huawei-certified optical modules are not designed in compliance with EMC standards and have low anti-interference capability. Additionally, they bring electromagnetic interference to nearby

How to Choose the Right Optical Transceiver in 2025

Learn how to select the right optical transceiver for your switch or router. Compare SFP, SFP+, QSFP28, Cisco SFPs, and Huawei modules with buying tips.

Huawei: How to stop messages if SFP is not certified

Huawei is very open when it comes to 3rd party SFP. In most cases, all SFPs work, but it generates a message every day, which fills the log unnecessarily. This can be disabled. When

Economic Watch: From optical modules to chips -

BEIJING, June 7 (Xinhua) -- With the global push for AI computing power unleashing an unprecedented wave of infrastructure buildout, China-made optical modules that shuttle data and the chips that

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface

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What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

Checking the Optical Module Type

When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module quality. The functions include the installation and removal, transmit and

40Gbps QSFP+ Optical Modules

1Gbps eSFP Optical Modules 10Gbps SFP+ Optical Modules 40Gbps QSFP+ Optical Modules 100Gbps QSFP28 Optical Modules Cables Hardware Installation Maintaining the Hardware

How To View Optical Transceiver Information On Huawei Switches

Optical modules are commonly used in switches, network cards, routers and other communications equipment, in the process of using the optical module information can be read to

How To Turn Off Alarms For Third-Party Modules On H3C Switches

H3C switches perform authentication on inserted optical modules. By default, a large number of alarm messages will be generated if the module is verified as non-H3C original.

CFP Optical Modules Market Evolution: 16.4% CAGR Growth to 2033

The CFP Optical Modules market is expanding rapidly, driven by escalating demand for data center interconnection and cloud services. Analyze growth factors and strategic opportunities.

400G Optical Modules 2026 Guide: DR4 vs. FR4 vs. LR8 Lab

Our CCIE/HCIE team shares lab-tested benchmarks for DR4, FR4, and LR8, focusing on power efficiency, latency, and AI cluster scalability.

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