

Are Huawei optical modules and Huijue optical modules compatible

Article Overview

Huijue optical modules are generally not certified for Huawei devices, and using them may lead to reliability and interoperability issues.

Huawei Optical Module Certification

Huawei requires that all optical modules used in its switches, OLTs, and other networking equipment be Huawei-certified to ensure proper functionality, signal quality, and device safety. Non-certified modules may cause link instability, data bus suspension, incorrect alarms, or even physical damage to interfaces due to non-standard sizes or electrical characteristics . Certification is indicated by the "HUAWEI" label on the module and verified through commands such as display transceiver on Huawei devices .

Huijue Optical Modules

Huijue is a Chinese manufacturer of optical transceivers, including 100G QSFP28, 10G SFP+, and other high-speed modules . While Huijue modules are designed to meet general Multi-Source Agreement (MSA) standards, there is no public evidence that Huijue modules are officially certified for Huawei equipment. Teardowns and datasheets show that Huijue modules are physically similar to Huawei modules, but subtle differences in electrical design, firmware, or edge connector tolerances may affect interoperability .

Compatibility Considerations

- o Physical Fit: Huijue modules may fit Huawei ports, but non-standard dimensions can block adjacent ports or cause mechanical stress .
- o Electrical and Firmware Differences: Non-certified modules may not correctly report optical power, temperature, or vendor information, leading to alarms or link flapping .
- o Performance Risks: Using Huijue modules in Huawei OLTs or switches may result in reduced optical budget, intermittent connectivity, or data errors, especially in high-speed or long-distance deployments .
- o Warranty and Support: Huawei does not provide support or warranty coverage for issues caused by non-certified modules .

Best Practices

- o Use Certified Modules: For critical networks, always use Huawei-certified optical modules to ensure reliability and maintain support.
- o Testing in Lab Environment: If considering Huijue modules, test them in a controlled environment before deployment to monitor link stability and optical performance.
- o Check Compatibility Matrices: Some third-party vendors provide compatibility matrices for switches and

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transceivers, but these are not official Huawei endorsements .

o Monitor Alarms and Performance: If non-certified modules are used, closely monitor link status, error rates, and optical power levels to detect potential issues early. In summary, while Huijue optical modules may physically fit Huawei devices, they are not officially certified, and using them carries risks of instability, reduced performance, and lack of vendor support. For production networks, Huawei-certified modules are strongly recommended to ensure safe and reliable operation.

Huawei provides a full series of pluggable optical modules. A wide variety of modules give you flexible plug-and-play options for all

Will the modules be compatible and operate flawlessly on my switches? This article will lead you to figure out the

Some non-Huawei-certified switch optical modules are not designed in compliance with EMC standards and have low

An optical module works in full-duplex mode with a pair of optical fibers, one for transmission and one for receiving, as shown in the

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

The CloudEngine series switches must use optical modules that are certified for Huawei Ethernet switches. Optical or copper

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP,

What are third-party optical modules? Learn how compatible transceivers work, whether they are safe, and how to

Learn how to select the right optical transceiver for your switch or router. Compare SFP, SFP+, QSFP28, Cisco SFPs,

10GE SFP+ Copper Modules Accessories Understanding Optical Modules What Is an Optical Module Types of Optical Modules

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

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ensure the optical module

Huijue Huawei optical module compatibility When using switches, we may encounter many confusions, such as what types of optical

Overview A switch must use optical or copper modules that have been certified for use on Huawei switches. This article summarizes

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a

Devices of different brands must use optical modules of that brand or compatible with that brand, such as: Huawei

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

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