Huawei and Huijue optical module connection



Overview

Can Huijue switches use Huawei optical modulesA switch must use optical or copper modules that have been certified for use on Huawei switches. This article.

Key Takeaways

Huawei optical modules support a wide range of pluggable interfaces and transmission rates, and interconnection with third-party modules like Huijue depends on matching interface types, transmission standards, and fiber specifications.

Huawei Optical Modules Overview

Huawei offers a comprehensive portfolio of optical modules for data center and enterprise networks, including SFP, eSFP, SFP+, SFP28, XFP, QSFP+, QSFP28, and CFP types, supporting transmission rates from GE to 800GE. These modules are designed for plug-and-play deployment, with strict performance specifications to ensure long-term stability, high reliability, and secure operation in data center networks. Huawei modules also feature channel loss resistance and contamination detection to improve reliability by up to 10x.

Interconnection Principles

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To interconnect Huawei modules with third-party modules such as Huijue, the following factors must be considered: Interface Compatibility: Both modules must use the same physical interface type (e.g., SFP+, QSFP28) and connector type (LC or MPO) to ensure proper electrical/optical signal conversion. Transmission Rate Matching: The module's data rate must match the port's supported rate. For example, a 10G SFP+ module cannot operate on a 100G QSFP28 port.

Fiber Type: Single-mode and multi-mode fibers are not interchangeable. Both modules must support the same fiber type to avoid signal loss or connection failure. Wavelength and Power Levels: The transmitting and receiving wavelengths, as well as optical power levels, must be compatible to maintain signal integrity.

Hot-

Swap and Monitoring: Huawei eSFP modules support monitoring of voltage, temperature, bias current, and optical power, which may not be fully compatible with third-party modules lacking similar monitoring capabilities.

Practical Deployment Considerations

Loopback Testing: Before full deployment, perform a loopback test to verify that the Huawei and Huijue modules can communicate without errors. Firmware and Vendor Lock: Some Huawei devices may enforce vendor checks. Ensure that the switch or router firmware allows third-party module operation or consider using modules certified for Huawei devices.

Stacking and Network Topology: When connecting multiple switches or devices, ensure logical port configurations and stacking methods are compatible with the optical modules used.

Conclusion

Huawei optical modules are highly versatile and support a wide range of data rates and interfaces. Interconnection with Huijue modules is feasible if interface type, transmission rate, fiber type, and optical power specifications are matched. Proper testing and configuration are essential to ensure reliable operation and maintain the high performance expected in data center or enterprise networks.

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Article Content

Can Huijue switches use Huawei optical modules

A switch must use optical or copper modules that have been certified for use on Huawei switches. This article summarizes several solutions for using optical modules with switches and common.

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

Huijue Huawei optical module compatibility

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

Connecting Optical Modules/Optical Fibers

Before connecting an optical module or optical fiber, ensure that both the NIC and the device have compatible interfaces. The connection procedure is as follows:

Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

How to make Huijue compatible with other optical modules

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

6.3.9 Installing Cables and Optical Modules. Huawei E9000

Step 2 Insert the optical module and optical cable into the 10GE or 8 Gbit/s FC optical port. 1. Determine the type and installation position of the optical module based on site requirements. 2. Horizontally

How To View Optical Transceiver Information On Huawei Switches

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We connect Moduletek SFP-10G-LR transceiver to Huawei S6700 switch, and demonstrate how to view transceiver details on Huawei switches.

Huijue checks optical module specifications

This guide dives into the key SFP Optical Module Specifications that engineers, network architects, and procurement professionals rely on when evaluating optical transceivers. Huijue has a senior

Installing Optical Modules

Turn the optical module over and try again. Before connecting an optical fiber to an optical module, complete the measurement of the input optical power and ensure it falls within the normal range to

Connecting Optical Modules and Optical Fibers

Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not responsible for any problem caused by the use of non-Huawei-certified optical

Installing an Optical Module

Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper transceiver module is the same, except that the copper transceiver module

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 which converts electrical signals into optical signals and vice versa. An

Optical Module Installation and Replacement

Do not touch the edge connector of an optical module during the installation. Install an optical module on a port before connecting optical fibers to the transceiver module. Install dust plugs on idle optical ports.

Optical Fiber

AOC An active optical cable (AOC) is a fixed-length optical fiber with optical modules at both ends. It can be directly connected to an optical port on a device. In short-distance connection scenarios, AOCs

Huijue Huawei optical module compatibility

Huijue Huawei optical module compatibility When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how

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Installing Optical Transceivers and Connecting Optical Fibers ...

The USG supports both 1 Gbit/s optical modules. The optical modules at both ends are the same, including the optical fiber type (single-mode or multi-mode), optical fiber connector type (LC/PC,

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