

Huijue Optical Module on Switch



AI Overview

Use Huawei-certified optical modules that match the switch port type, speed, and fiber type to ensure reliable operation. Certification and Compatibility Huawei switches require optical or copper modules that are certified by Huawei. Non-certified modules may cause transmission issues, service instability, and are not supported by Huawei technical support. Certified modules typically have the HUAWEI label, and their details can be verified using commands like `display transceiver` or `display version` on the switch. Modules delivered after July 1, 2013, are generally certified if they meet these criteria.

Module Types and Speed

- SFP (Small Form-factor Pluggable):** Common for 1G connections.
- SFP+:** Supports 10G connections.
- QSFP/QSFP28:** Used for 40G or 100G uplinks. It is important to match the module speed to the port speed. For example, do not use a 10G SFP+ module on a 1G interface, as this will prevent the port from functioning.

Fiber Type Considerations

- Single-mode fiber (SMF):** Typically used for long-distance connections (up to 10 km or more). Use LR (Long Reach) modules.
- Multi-mode fiber (MMF):** Used for short-distance connections ($\leq 300\text{--}400$ m). Use SR (Short Reach) modules. Do not mix single-mode and multi-mode fibers or modules, as this can cause connectivity issues.

Practical Tips

- Check optical power and wavelength:** Use `display transceiver interface xgigabitethernet 0/0/x verbose` to verify the module's received and transmitted power levels.
- Perform loopback tests:** Connect the fiber jumper to the same module to check for abnormal conditions.
- Hot-swapping:** Most Huawei modules support hot-swapping, allowing replacement without shutting down the switch.
- Future-proofing:** For SMBs or data centers, consider 10G SFP+ LR or 100G QSFP28 LR4 modules depending on your upgrade path.

Recommended Approach

Always use Huawei-certified modules or fully tested third-party modules verified for Huawei switches. This ensures network stability, proper recognition by the switch, and warranty support. For specific switch models like S5700 or S5720 serie...

Article Content

How to use the optical port on a Huijue switch

How to use the optical port on a Huijue switch This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

XGSPON ONU SFP+ 1270nm-TX/1577nm-RX 9.953G-TX/9.953G-RX

OverviewThe XGS-SFP-ONT-MAC-I is a high-performance optical transceiver module designed for 10-Gigabit-capable passive optical network (XGS-PON) deployments. It functions as an integrated

Where are the optical modules in the Huijue switch

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

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CONFIGURING THE OPTICAL INTERFACE OF THE HUIJUE

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Huijue Switch Display Optical Module

The following uses the Moduletek SFP-10G-LR module connected to a Huawei S6700 switch as an example to introduce how to read information of the connected optical module on a Huawei switch.

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Overview The Huawei SFP-10G-BXU1 is a high-performance, cost-effective SFP+ Bi-Directional (BIDI) optical transceiver module designed for 10G Ethernet applications.

Modifying the gateway on a Huijue optical switch

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How to make Huijue compatible with other optical modules

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Where are the optical modules in the Huijue switch

For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description.

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