

Recommended Optical Modules for Huijue Switches



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 ($\leq 300\text{--}400\text{ m}$). 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 v...

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Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules convert electrical signals into optical

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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

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I am replacing my core Dell switches with some Cisco 9300 and Nexus 9300 and need to acquire several 10Gb SFP+ transceiver fiber modules; are there any recommended vender modules

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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.

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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.

Recommended SFP for 1000base-LH upgrade to 10G

currently, you are using: 1000BASE-LH which is 1310nm and uses Single Mode Fiber, so for 10Gig you can use: Cisco SFP-10G-LR Cisco SFP-10G-LR-S both are compatible with Cisco

Contact Us

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