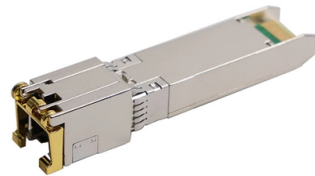


Huijue Switch Optical Port Connection



AI Overview

Huijue switch optical ports are connected using fiber modules (SFP/SFP+), with proper interface configuration and monitoring to ensure data transmission and link stability.

Physical Connection

Select the correct optical module: Use SFP (1G) or SFP+ (10G) modules compatible with the switch and fiber type (single-mode or multi-mode).

Fiber type and connectors: Single-mode fibers typically use LC connectors with wavelengths like 1310 nm, while multi-mode fibers use 850 nm LC connectors.

Port connection: Insert the optical module into the switch's optical port, then connect the fiber patch cable to the module. Ensure the other end connects to the corresponding port on the target device (another switch, AP, or router).

Configuration

Enable the interface: Use the command to bring the optical port up, e.g., `interface` followed by `undo shutdown`.

Verify module and link status: Run `display transceiver` to check module type, wavelength, and diagnostic information. For a specific port, use `display transceiver interface`.

PoE and hybrid cables: If using hybrid optical/electrical cables to power APs, configure the optical port as a proxy for the electrical port using LLDP commands, e.g., `poe lldp-proxy`.

Monitoring and Troubleshooting

Check link status: `display interface brief` shows whether the port is UP and operational.

Monitor transmit/receive power: Use `display transceiver verbose` to view real-time optical power, voltage, and temperature.

Troubleshoot errors: Look for CRC errors, discards, or alignment issues in the interface statistics to identify fiber or module problems.

Best Practices

Always match fiber type and module specifications between devices. Keep fiber connectors clean to prevent signal loss. Use diagnostic commands regularly to monitor optical port health. For APs requiring PoE++, ensure compatibility checks are enabled on the optical port if using hybrid cables.

By following these steps, Huijue switch optical ports can be properly connected, configured, and monitored for reliable network performance.

Article Content

Connection of two core switches in Huijue

Connecting switches can be achieved through two common methods: cascading and stacking. In this guide, we will explore these two approaches and provide you with the necessary details to make an

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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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To connect a fiber, align the optical connector with the optical port and gently insert the optical fiber into the port. To remove a fiber, press the clip on the connector and pull the fiber out.

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How to use the optical port on a Huijue switch

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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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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.shangases.co.za>

Email: ekomedsolar@gmail.com

Phone: +86 13816583346

Address: No. 26 Heshun Middle Road, Economic Development Zone, Hai'an City, Jiangsu Province, China

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