

Huawei switch ports replaced with optical ports

Article Overview

To replace an optical module on a Huawei switch, carefully remove the old module, ensure ESD protection, and install a compatible new module while maintaining fiber cleanliness and correct orientation.

Preparation and Safety

- o ESD Protection: Wear an ESD wrist strap or gloves and ensure proper grounding to prevent damage to sensitive optical modules .
- o Dust Plugs: Keep dust plugs on idle ports and cover fiber connectors when disconnected to prevent contamination .
- o Compatibility Check: Ensure the new optical module matches the old one in center wavelength, standard, and speed. Avoid mixing single-mode and multi-mode fibers or using modules with higher rates than the interface supports .

Removing the Old Optical Module

- o Disconnect Fibers: Remove optical fibers from the module and cover them with dust caps .
- o Labeling: Record fiber positions and label them clearly to ensure correct reconnection .
- o Module Removal: Rotate the handle of the module down, gently push, and pull the module out using the handle. Use tweezers if space is limited .
- o Wait Before Re-insertion: If replacing a copper transceiver, wait at least 2 seconds before inserting the new module to allow the port to reset .

Installing the New Optical Module

- o Orientation: Ensure the module is correctly oriented (gold fingers facing down if applicable) and gently push it into the port until it clicks .
- o Secure Fit: Verify the module is seated properly by gently pulling on it; it should not come out if installed correctly .
- o Reconnect Fibers: Attach the optical fibers to the labeled positions and remove dust caps .
- o Check Status: Observe the LINK indicator; a steady green light indicates normal operation .

Post-Replacement Verification

- o Use commands like `display interface xgigabitethernet0/0/2` or `display transceiver interface xgigabitethernet0/0/2 verbose` to check port status, optical power, and wavelength .
- o If the LINK indicator is off on a dual-fiber port, swap the fibers to correct polarity .
- o Confirm that the interface configuration remains correct, especially if the new module differs in type from the old one .

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Additional Tips

- o Never look directly into the optical module or fiber ends; laser radiation can cause eye damage .
- o Use only Huawei-certified optical modules to ensure service stability .
- o Keep the module and fiber connectors clean and free from dust during the replacement process . Following these steps ensures a safe and effective replacement of Huawei switch optical modules, maintaining network stability and preventing damage to sensitive components.

CloudEngine S5736-S series switches are all-optical switches that feature 48 downlink optical ports and four uplink 10 GE ports.

If the transmit power remains low, replace the optical module or install it in another optical port to check whether it is faulty. If the

When using switches, we may encounter many confusions, such as what types of optical modules are needed for

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

Interfaces that use optical modules that are not certified for Huawei data center switches may be unable to go Up. If an optical

What Can I Do If a Message Is Displayed Indicating that an Optical Module Is Not Supported During Stack Port Configuration? When

Huawei Ethernet Switches Turbocharge your enterprise network with high-performance, high-availability for resilient services and

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or

Install an optical module, and then connect optical fibers to the optical module. Do not insert an optical module with optical fibers to

Select optical fibers of appropriate modes, quantity, and lengths according to the optical module types, number of ports to be

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Ensure that optical cables are routed straightly and bound neatly, and that cable ties are installed at even spacing and fastened

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

To meet these growing bandwidth requirements, access switches must have optical downlink ports. These ports can

This article summarizes several solutions for using optical modules with switches and common problems encountered

Therefore, you must take ESD protection measures when replacing optical modules. Do not insert an optical module reversely. If an

What Is the Impact of Using Non-Huawei-Certified Switch Optical Modules? When certifying an optical module, Huawei

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