

Optical Port Interconnection between Huawei Switches

Article Overview

To connect an optical port to a Huawei switch, install a compatible optical module into the port, then insert the optical fiber connector carefully, following ESD precautions and verifying the connection.

Step 1: Prepare for Installation

- o Check compatibility: Ensure the optical module and fiber type (single-mode or multi-mode) match the switch port specifications and each other. Do not mix single-mode and multi-mode fibers or modules .
- o Wear ESD protection: Use an anti-static wrist strap or ESD gloves and ensure proper grounding to prevent electrostatic damage .
- o Inspect modules and fibers: Keep dust plugs on unused ports and modules. Remove them only when ready to connect .

Step 2: Install the Optical Module

- o Orientation: Hold the module correctly (gold fingers down for S5700 series, or follow the L-shaped recess orientation for QSFP+ modules) and gently insert it into the port until it clicks .
- o Check seating: Gently pull the module by its sides; if it does not come out, it is properly seated .
- o Avoid forcing: If the module does not fit, rotate it 180 degrees and try again .

Step 3: Connect the Optical Fiber

- o Remove dust caps from both the module and fiber connector .
- o Align and insert: Match the fiber connector with the module bore and insert until it clicks. Do not force the fiber .
- o High-density ports: Use tweezers if necessary to manage fibers in high-density interface cards .
- o Bundle fibers: Route fibers through cable management frames and secure with fiber binding tape at 20-30 cm intervals .

Step 4: Verify the Connection

- o Check port status: Use the command display interface `xgigabitethernet0/0/x` to ensure the port is not administratively down .
- o Check transceiver parameters: Execute display transceiver interface `xgigabitethernet0/0/x verbose` to verify wavelength, received, and transmitted optical power are within normal ranges .
- o Loopback test: Optionally, connect the fiber jumper to the same module to test for abnormal conditions .

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Step 5: Maintenance and Safety

- o Dust plugs: Keep dust plugs on unused modules and ports to prevent contamination .
- o Avoid touching connectors: Do not touch the edge connector of the optical module or the fiber tip .
- o Power check: Measure input optical power before connecting fibers to avoid overloading and damaging the module . Following these steps ensures a reliable optical connection on Huawei switches while protecting both the hardware and signal integrity.

Converted interfaces go Up after the switch restarts and the configurations delivered when the split interface is in

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

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

After an SFP-GE copper or optical module is installed on a GE or 10GE optical interface, or a high-speed cable is

Configuration Roadmap Configure logical stack ports and add physical member ports to the corresponding logical

This document provides typical configuration examples for interoperation between Huawei switches and mainstream IP phones,

Connecting Second-Generation Hybrid Cable Context For details related to precautions for using the second-generation hybrid cable

Rules for Optical Module Interoperation Interoperation Rules Optical modules with the same standards can interoperate with each

S1720, S2700, S5700, and S6720 V200R011C10 Command Reference This document describes all the configuration commands of

If you need to achieve interoperability between optical modules with different standards, contact technical support personnel. When

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

The interconnection and interoperation team of Huawei's Campus Network Solution provides comprehensive interconnection

CloudEngine S5732-H Series Hybrid Optical-Electrical Switches CloudEngine S5732-H series hybrid optical-electrical switches are

Today, ETU-LINK will introduce the connection scheme of Huawei 10 megabyte switch and 10 megabyte network card.

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

To enable communication between hosts, interfaces between switches must be able to identify and send VLAN frames. To

Web: <https://www.morwarreconst.co.za>

