

Huawei S5720 Switch Optical Module Configuration



Overview

Huawei S3700, S5700 and S6700 Switches Support Guide, Manuals
S3700&S5700&S6700 Series S5720-52X-PWR-SI-AC: Access product manuals, HedEx documents, produc.

Key Takeaways

Huawei S5720 switches support pluggable optical modules on 100/1000BASE-X ports, with configuration and monitoring handled via VRP commands and careful attention to module compatibility. Optical Port Types and Module Compatibility

The S5720 series features 100/1000BASE-X ports and combo ports, which include both an optical Ethernet port and an electrical Ethernet port. Only one port in a combo pair can operate at a time; if the optical port is active, the electrical port is automatically disabled, and vice versa. By default, combo ports operate in auto mode, selecting the port type based on which connection is established first. When installing optical modules:

- Ensure fiber type matches the module: single-mode fibers with single-mode modules, and multi-mode fibers with multi-mode modules. Mixing types can prevent connectivity.
- Do not use a module with a higher data rate than the port supports (e.g., avoid 10G modules on 1G ports),.

- Maximum optical module distance is 10 km under standard operating conditions .

Configuration and Verification Commands

- Check port status:

display interface xgigabitethernet 0/0/2 Replace 0/0/2 with the actual port number. If the output shows Administratively DOWN, the port is shut down and must be enabled .

- Monitor optical module parameters:

display transceiver interface xgigabitethernet 0/0/2 verbose This command provides wavelength, received power, and transmitted power, helping verify that the module is functioning within normal ranges .

- Enable a port (if administratively down):

interface xgigabitethernet 0/0/2undo shutdown

Troubleshooting Tips

- Perform a loopback test by connecting the fiber jumper to the same optical module to check for abnormal conditions .

- Ensure power and grounding are properly connected, as optical modules rely on stable switch operation .

- Avoid using GPON optical modules on ports that need to remain available for standard Ethernet traffic, as GPON modules may block other ports .

Best Practices

- Wear an anti-static wrist strap when handling optical modules to prevent ESD damage .

- Verify module compatibility with the S5720 model and VRP version before installation.

- Use pluggable power modules if redundancy is required, ensuring stable operation for optical ports . By following these steps, you can ensure that Huawei S5720 optical ports are correctly configured, monitored, and maintained for reliable network performance.

Article Content

Huawei Switch Industrial-Grade Optical Module

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

S5720-SI Series Standard Gigabit Ethernet Switches

The S5720-SI series switches are standard Layer 3 Gigabit Ethernet switches that provide flexible full gigabit access and cost

S5720-36C-EI-28S-AC S5720-36C-EI-28S-AC installation

Next-generation enhanced gigabit Ethernet switch. 1. 28*GE SFP, 4*GE RJ45 combo, 4*10GE SFP+. 2. Dual pluggable AC or DC

Huawei S5720-EI Series Switches Product Datasheet

For a non-BIDI optical module, each optical interface must be configured with a Tx optical fiber and an Rx optical fiber of the same

S5700 Series Switches Product Description (V200)

With optical data transmission, the switch can provide up to 10 Gbit/s access for connected devices, reaching ultra-fast upstream

S5720-52X-SI-48S

If the optical port has an optical module installed and the electrical port has an Ethernet cable connected, the optical port is used for

Hardware Configuration Commands

Non-Huawei-certified switch optical modules may fail to work normally. If non-Huawei-certified switch optical modules are used on

S5720-LI Series Simplified Gigabit Ethernet Switches

The S5720-LI supports Huawei EasyOperation which is a solution that provides zero-touch deployment, replacement of faulty

S5720-12TP-LI-AC

If the optical port has an optical module installed and the electrical port has an Ethernet cable connected, the optical port is used for

Huawei S5720-EI Series Switches Product Datasheet

The S5720-EI series enhanced gigabit Ethernet switches (S5720-EI for short) are next-generation switches that provide flexible GE

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

