

Huawei S5720s connects to multiple optical modules



AI Overview

Huawei S5720S switches support multiple optical modules, but only one port per combo port can be active at a time, and GPON modules restrict the use of other optical ports. Optical Module Compatibility Huawei S5720S switches use SFP and SFP+ optical modules for 1G and 10G connections. When deploying multiple optical modules:

- Combo Ports:** Each combo port pairs an optical port with an electrical Ethernet port. Only one port in a combo pair can be active at a time. If the optical port is active, the electrical port is automatically shut down, and vice versa.
- GPON Modules:** If a port uses a GPON optical module, other 1000BASE-X optical ports cannot be used simultaneously on the same switch.
- Module Type Restrictions:** Ensure that the optical module matches the port speed. For example, do not use a 10G module on a 1G interface. Single-mode and multi-mode fibers must also match the module type.
- Configuration and Troubleshooting**
 - Port Status Check:** Use the command `display interface xgigabitethernet0/0/x` to verify if a port is administratively down or active.
 - Transceiver Diagnostics:** Run `display transceiver interface xgigabitethernet0/0/x verbose` to check wavelength, received, and transmitted optical power.
 - Auto Mode Behavior:** By default, combo ports operate in auto mode. The first connected interface (optical or electrical) determines the active port. If the electrical port is already up, connecting an optical module will not switch the active port automatically.
- Deployment Tips**
 - Stacking and Logical Ports:** For S5720S switches with multiple 10G optical ports, you can configure logical ports for stacking or uplink aggregation. For example, the first two 10G ports can be logical port 1, and the last two as logical port 2.
 - Power and Heat Considerations:** S5720S-LI models have built-in AC power and natural heat dissipation. No pluggable power modules or fans are required.

Article Content

S5720-EI Series Enhanced Gigabit Switches

Introduction The S5720-EI series enhanced Gigabit Ethernet switches are switches that provide flexible GE access ports (including optical, electrical, and combo ports) and 10GE uplink ports. Built on next

S5720-SI Series Standard Gigabit Ethernet Switches

One S5720-SI switch can connect to multiple aggregation switches through multiple links, implementing backup of uplinks and significantly improving reliability of access devices.

The Ultimate Guide to SFP Modules (2026): Types,

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the

Types of Optical Modules

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a center wavelength of 850 nm, 1310 nm, or 1550 nm, whereas a

FAQs About Optical Modules

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. The following figure shows the

Huawei S5720S-SI Service Manual

One S5720-SI switch can connect to multiple aggregation switches through multiple links, implementing backup of uplinks and significantly improving reliability of access

What Are the Common Types of Optical Modules?

Multimode optical modules have a typical center wavelength of 850 nm, and are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode fibers because of

Huawei S5720S Switch Series: Gigabit PoE+ for SMB and Campus

Explore Huawei's S5720S switches: versatile Gigabit switches in LI and SI variants. Learn about PoE+, stacking, Layer 3, and surge protection for campus/SMB.

Configuring Attributes for an Optical Interface

Some functions can be configured on an optical interface only after the interface connects to a transmission medium (such as an optical module or copper module).

S5720S-28X-SI-AC

The S5720S-28X-SI-AC has a built-in power module and does not support pluggable power modules. It can connect to an RPS1800 power supply for power redundancy. Figure 4-640 shows the power

Single-mode vs Multimode SFP, What's the Difference?

In the optical communication industry, single-mode SFP and multi-mode SFP are the two main types of hot-swappable optical modules used in optical fiber networks.

S5720-SI Datasheet (Detailed Version)

The iStack function allows users to connect multiple switches with stack cables to expand system capacity. These switches can be managed using a single IP address, which greatly reduces the

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface

S5720-SI Datasheet (Detailed Version)

One S5720-SI switch can connect to multiple aggregation switches through multiple links, implementing backup of uplinks and significantly improving reliability of access devices.

Types of Optical Modules

Multi-mode optical modules cannot be reliably used in scenarios where optical splitters are used because of the link budget in IEEE standards and the impact of multi-mode optical splitter on multi

S5720S-28X-SI-AC

10GE SFP+ port A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s. Table 4-1765 describes the attributes of a 10GE

Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

S5720-EI Series Switches

S5720-EI series enhanced GE access switches offer 10 GE ports and QoS features to provide low-latency forwarding for enterprise campus networks. Learn more.

Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei routers support optical modules of the following encapsulation types: SFP, eSFP, SFP+, XFP, and QSFP+.

S5720-52X-LI-48S-AC

The electrical and optical ports of a combo port are multiplexed, and only one of them can work at a time. When one of the Ethernet ports is working, the other port is shut down.

Troubleshooting for Optical Modules on Huawei Switch

Troubleshooting for Optical Modules on Huawei Switch Many friends feedback that one problems occurred when using optical modules on switches, now we are

S5720-28X-SI-AC Datasheet Overview

Multiple S5720-SI can be connected with stack cables to set up a stack, which functions as a virtual switch. A stack consists of a master switch, a backup switch, and several slave switches.

FAQs About Optical Modules

Multi-mode optical modules are applicable to short-distance transmission, while single-mode optical modules are applicable to long-distance transmission. Single-mode optical modules will be widely

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