

# Huawei S5720 Switch Optical Module Configuration



## Overview

S5720-28X-SI-DC If the optical port has an optical module installed first, the optical port is used for data switching. If the electrical port has an Ether.

## 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 0/0/2`  
`undo 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

### S5720-28X-SI-DC

If the optical port has an optical module installed first, the optical port is used for data switching. If the electrical port has an Ethernet cable connected and is in Up state, the electrical port is still used for

### 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.

### Huawei S5720S-SI Service Manual

The S5720-SI series switches (S5720-SI for short) are next-generation standard gigabit Layer 3 Ethernet switches that provide flexible full gigabit access and cost-effective fixed GE ports and

### Troubleshooting for Optical Modules on Huawei Switch

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. ...

### 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-effective fixed GE ports and 10GE uplink ports.

### S5720 & S6720 Switch MPLS Configuration Guide

MPLS configuration guide for Huawei S5720 and S6720 series Ethernet switches. Learn to configure MPLS features for optimal network performance.

### S5720-52X-SI-AC S5720-52X-SI-AC installation configuration

Next-generation standard gigabit Ethernet switch. 1. 48\*GE RJ45, 4\*10GE SFP+, 10GE uplink ports for stack. 2. Dual hot swappable AC/DC power supplies, one AC power module is configured by default.

### Huawei S5720-HI Manuals | ManualsLib

Huawei S5720-HI Quick Start Manual (13 pages) Brand: Huawei | Category: Switch | Size: 0.76 MB Table of Contents About this Guide 2

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### Huawei S3700, S5700 and S6700 Switches Support Guide, Manuals

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### Hardware Configuration Commands

Non-Huawei-certified switch optical modules may fail to work normally. If non-Huawei-certified switch optical modules are used on devices produced since July 1, 2013 (January 1, 2016 for QSFP+ 40GE

### HUAWEI S Series Switch-Identify a Huawei-Certified Optical Module

HUAWEI S Series Switch-Identify a Huawei-Certified Optical Module video demonstrates how to identify a Huawei-certified optical module.

#### S5720-52X-SI-AC

The S5720-52X-SI-AC has similar indicators to those on the S5720-52X-PWR-SI-AC, except that the S5720-52X-SI-AC does not have a PoE mode indicator. For details, see Indicator Description.

#### S5720SI and S5720S-SI Service Port Stacking Support

If SFP+ optical ports of an S5720-14X-PWH-SI-AC have been configured as stack member ports but the switch needs to be downgraded to V200R009 or an earlier version, delete the stack member port

#### S5720-EI Series Switches

**S5720-EI Series Switches Product Overview** The S5720-EI series enhanced gigabit Ethernet switches (S5720-EI for short) are next-generation switches that provide flexible GE access ports (including

#### S5720-52X-SI-48S

The S5720-52X-SI-48S has similar indicators to those of the S5721-28X-SI-24S-AC, except that the S5720-52X-SI-48S does not have an ETH management port. For details, see Indicator Description.

#### Troubleshooting for Optical Modules on Huawei Switch

When this optical module uses OM3 multimode optical fibers, its transmission distance is 0.3 km. The optical modules used on both ends must have the same transmission speed, and the interface

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