Configuring the optical port on a Huawei S5720 switch

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 optical ports can be configured via combo-port commands, support auto-negotiation, and require compatible SFP/SFP+ modules for proper operation.Combo Port Behavior

The S5720 switch features combo ports, which combine an electrical (RJ45) and an optical (SFP/SFP+) interface. By default, a combo port operates in auto mode, where the active port is determined by connection order: if the electrical port is connected first, it is used; if the optical module is installed first, the optical port is used. After a switch restart, the optical port takes precedence if both are connected. You can manually configure a combo port as either electrical or optical using the combo-port command .

10GE SFP+ Ports

The 10GE SFP+ optical ports support auto-sensing between 1 Gbit/s and 10 Gbit/s. They can send and receive data at either speed depending on the connected module and network requirements. Ensure that the SFP+ module matches the port speed and type; for example, do not use a 10G module on a 1G interface .

Optical Module Compatibility

To ensure proper operation:

• Use compatible single-mode or multi-mode fibers with matching optical modules; do not mix types .

• Avoid using modules with a higher rate than the interface supports.

• Check the wavelength, received, and transmitted optical power using the command display transceiver interface xgigabitethernet 0/0/2 verbose to verify normal operation .

• If the port shows Administratively DOWN, it is disabled and must be enabled with the undo shutdown command .

Troubleshooting Steps

• Verify module and fiber compatibility.

• Perform a loopback test by connecting the fiber jumper to the same optical module.

• Check port status with display interface xgigabitethernet0/0/2.

• Ensure the port is not administratively shut down.

• Confirm the optical power levels are within normal range .

Summary

To configure Huawei S5720 optical ports effectively:

• Understand combo port auto-selection and manual configuration.

• Use compatible SFP/SFP+ modules and fibers.

• Verify port speed and status using system commands.

• Perform troubleshooting steps if the port fails to link. These steps ensure reliable optical connectivity and optimal performance on Huawei S5720 switches .

Article Content

Huawei S5720 switch optical port settings

So, how do you configure a Huawei S5720 to dodge these pitfalls and unlock its full potential? And can meticulous configuration

Configuring the optical port of the Huawei S5720-52X switch

COTTAGE NETWORKS supplies fiber conduits, clamps, amplifiers, optical transceivers, industrial switches, lithium storage, and

Optical Module Solutions for Huawei S5700/S5720 Series Switches

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

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

S5720-28TP-PWR-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

Hardware Configuration Commands

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

Ethernet Interface Configuration Commands

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

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

Typical Stack Configuration of Fixed Switches

If SFP+ optical ports of an S5720-14X-PWH-SI-AC have been configured as stack member ports but the switch needs to be

S5720-28X-LI-24S-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

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