Configuring Fiber Optic Access on Huawei Switches


Ordering information

NO.	1	2	3	4
Model	FS4M1	FS8M2	FS12M3	FS16M4
Product name	Patch Panel	Patch Panel	Patch Panel	Patch Panel
Illustration				
HU	1	2	3	4
Maximum number of cores	96	192	288	384
Product size (excluding modules and adapters)	482.6*208.7*43.7mm	482.6*208.7*88.1mm	482.6*208.7*132.5mm	482.6*208.7*177.7mm
Standard color code	RAL9005	RAL9005	RAL9005	RAL9005

Overview

Fibre Channel switch configuration includes setting domain IDs, configuring the long-distance mode for links, and creating zones.

Key Takeaways

Configuring a Huawei fiber optic switch involves connecting the fiber cables properly, setting up interfaces, VLANs, IP addresses, and enabling secure management access.

Physical Fiber Connection

Prepare the Fiber Cables: Use pigtails or hybrid cables to connect the main fiber line to the switch. Splice the pigtail to the main cable and connect it to the switch or HDF (Hybrid Distribution Frame) if used.

Install the Switch and HD

F: Place the switch and HDF in the same or separate cabinets. Maintain recommended spacing (14–16 U between HDF and switch) and plan positions for multiple devices. Connect Jumpers: Insert jumpers into the cabling space, remove dust caps from optical connectors, and connect TX and RX ports according to the port mapping rules.

Secure Cables: Use cable ties to fix jumpers and prevent damage or contamination.



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Software Configuration

Access the Switch: Connect a PC to the switch via console cable or Mini USB. Log in using the default credentials (admin/admin@huawei.com) and change the password immediately. Set Up User Accounts: Configure AAA authentication for Telnet or SSH access.

Example commands: CodeCopy[HUAWEI-aaa] local-user admin password irreversible-cipher YourPassword[HUAWEI-aaa] local-user admin privilege level 15[HUAWEI-aaa] local-user admin service-type telnet Configure Interfaces: Assign IP addresses to VLAN interfaces for management. Example: CodeCopy interface Vlanif1[HUAWEI-Vlanif1] ip address 10. 10.

1. 1 255. 255.

255. 0 Set Up VLANs and Ports: Configure access and trunk ports according to network design. Example: CodeCopy vlan 10[HUAWEI-vlan10] quit interface GigabitEthernet0/0/1[HUAWEI-GigabitEthernet0/0/1] port link-type access[HUAWEI-GigabitEthernet0/0/1] port default vlan 10 Configure Combo Interfaces: If using combo ports (GE electrical + GE optical), select the working mode based on the installed module: FORCE FIBER for optical or FORCE COPPER for electrical.

Enable Remote Management: Configure SSH for secure remote access and optionally NTP for time synchronization and syslog for monitoring. Save Configuration: Always save the configuration to prevent loss after reboot: CodeCopy save Testing and VerificationPing Test: Verify connectivity to other devices in the network. Interface Status: Use display interface brief to check port status.

VLA

N Verification: Use display vlan to ensure correct VLAN assignment. By following these steps, your Huawei fiber optic switch will be physically connected, properly configured for network communication, and secured for management access. This setup ensures reliable operation in campus or enterprise networks.

Article Content

Configuring Attributes for an Optical Interface

Both the local and remote interfaces do not need to have optical modules installed. The 40GE interface can be connected to four 10GE interfaces on the remote device using a 1-to-4 40GE optical module

Configuring Fibre Channel Switches (Applicable to Fibre Channel ...

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Fibre Channel switch configuration includes setting domain IDs, configuring the long-distance mode for links, and creating zones. The user names and passwords used to log in to Fibre Channel switches

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.

How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

A Combo port, also known as an optical-electrical multiplexing port, consists of one optical port and one electrical port on the device panel, which share a single internal forwarding

Huawei Switch Configuration | Complete Setup Guide

In this video, we''ll guide you through the process of configuring a Huawei Switch for your network.

Huawei Switch Configuration Guide | PDF | Internet Protocols

The document provides configuration instructions and commands for basic switch configuration using Huawei switches. It covers topics such as changing the hostname, configuring user accounts and

Huawei S Series Quick Configuration

Small- and Mid-Sized Campus Networks This section uses the S2750 as an access switch (ACC1), S5700 as a core switch (CORE), and an AR series router as an egress router (Router) as examples

Huawei Switch Configuration Tutorial Basic

With hands-on experience in Huawei OLT and ONT configuration, U2000 NMS deployment, iMaster NCE-FAN Lite management systems, firmware upgrades, and advanced

Basic CLI Commands on Huawei Switch

This text is a guide detailing Basic Command Line Interface (CLI) Commands on Huawei brand switches. It provides step-by-step instructions for users to perform fundamental network configuration

How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

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Learn how to choose 10G/25G access and 100G uplinks, decide LC vs MPO, pick DAC/AOC/fiber by distance tiers, avoid breakout chaos.

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Compare single-mode (OS2) and multimode (OM3-OM5) fiber: reach tables, link-budget steps, MPO polarity, cost/TCO, and Cisco/Huawei/Ruijie optic examples.

Fiber Optic Distribution Box Application and Research Report

Through effective cooperation with optical splitters, optical switches, and other equipment, fiber optic distribution boxes enable flexible signal distribution, efficient data exchange,

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Optical Access Architecture Reference Document: Huawei vs ZTE

switching capacity, per-slot bandwidth, PON port density, redundancy mechanisms, and environmental tolerances to establish a clear framework for strategic infrastructure investment.

Configuring Attributes for an Optical Interface

After configuring interface split or merge on an interface, you need to save the configuration and restart the switch to make the configuration take effect. The original configuration

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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