How to enable optical ports on an H3C Layer 3 switch



Overview

H3C S12500 Series Interface Configuration ManualEthernet interfaces can operate either as Layer 2 (in bridge mode) or Layer 3 Ethernet interfaces (in route.

Key Takeaways

To configure an optical port on an H3C Layer 3 switch, you need to enable the interface, assign VLANs, and verify the optical module status using CLI commands. Step 1: Access the Switch CLIConnect to the switch via console, SSH, or Telnet and log in with administrative credentials. Enter system view mode to configure interfaces: CodeCopysystem-view Step 2: Identify the Optical InterfaceUse the following command to list all interfaces and locate the optical port: CodeCopydisplay interface brief This shows interface types, numbers, and current link status.

Step 3: Enable the Optical PortEnter the interface configuration mode for the optical port (e.g., XG0/1): CodeCopyinterface XG0/1no shutdown This activates the port. If the port is a combo port, ensure the electrical interface is shutdown before using the optical interface. Step 4: Configure VLANsDepending on your network design, configure the port as access, trunk, or hybrid: Access port (single VLAN): CodeCopyport link-type accessport default vlan 10 Trunk port (multiple VLANs): CodeCopyport link-type trunkport trunk permit vlan 10 20 30 Hybrid port (mixed behavior): CodeCopyport link-type hybridport hybrid permit vlan 10 20port hybrid untagged vlan 10 Ensure the VLANs exist before assigning them.



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Step 5: Verify Optical Module StatusCheck the optical module and link status: CodeCopyshow interface XG0/1 This displays the interface rate, module type, link state, and statistics. For detailed diagnostics, use: CodeCopyshow transceiver diagnosis interface XG0/1 This provides real-time metrics such as transmit/receive optical power, temperature, and bias current, helping confirm normal operation. Step 6: Save ConfigurationAfter configuration, save the changes to prevent loss after reboot: CodeCopysave Additional TipsFor combo ports, only one interface (optical or electrical) can be active at a time.

Monitor the UP/DOWN log messages to track link changes, but you can disable excessive logging if needed.

Use MAC or I

P binding if you want to restrict access to specific devices on the optical port. By following these steps, the optical port on an H3C Layer 3 switch will be properly configured, operational, and integrated into your VLAN topology.

Article Content

H3C S12500 Series Interface Configuration Manual

Ethernet interfaces can operate either as Layer 2 (in bridge mode) or Layer 3 Ethernet interfaces (in route mode). You can set the link mode to bridge or route for an Ethernet interface.

H3C S5800 SERIES SWITCH CONFIGURATION MANUAL

Configure static router BFD so that when the link over which Switch A communicates with Switch B through the Layer 2 switch fails, BFD can detect the failure immediately, and then Switch A and

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Optical transceivers are widely applied in switches, routers, network cards and other communication equipment. Querying transceiver parameters helps monitor real-time operation and

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Loop detection—When the system detects a loop on a port, it does not take any actions on the port, but it will display a red icon for the port on the port state pane.

H3C S5500-SI Series Ethernet Switches Operation Manual | Manualzz

They provide 24 or 48 autosensing Gigabit Ethernet ports and four SFP Combo Gigabit optical interfaces. This manual includes information on configuring the switches, managing users, and

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Master the Basic Command Configurations of Huawei, H3C, Ruijie,

As technology advances, networking switches have become an integral part of the IT infrastructure. They play a crucial role in directing communication on the network and ensuring

Basic CLI Commands on H3C Switch

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Learn how to create users, VLANs, enable Telnet and SSH, configure Spanning Tree Protocol, enable DHCP snooping, define trunk ports, and create access

H3C S1600V2 Switch Series Web Configuration Guide

Switch B is connected to the authorized DHCP server through Ethernet port 1, to the unauthorized DHCP server through Ethernet port 3, and to the DHCP client through Ethernet port 2.

H3C Switch Command Mastery: Streamlined Configuration

In today''s fast-paced network environments, H3C switches form the backbone of enterprise connectivity. While many administrators rely on GUI configurations, mastering CLI commands remains crucial for

Switches-H3C

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