

How to enable optical ports on an H3C Layer 3 switch



Overview

H3C S12500 Series Interface Configuration Manual Ethernet 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 CLI Connect to the switch via console, SSH, or Telnet and log in with administrative credentials. Enter system view mode to configure interfaces: `CodeCopy system-view`
Step 2: Identify the Optical Interface Use the following command to list all interfaces and locate the optical port: `CodeCopy display interface brief` This shows interface types, numbers, and current link status.

Step 3: Enable the Optical Port Enter the interface configuration mode for the optical port (e.g., `XG0/1`): `CodeCopy interface XG0/1`
`no 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 VLANs Depending on your network design, configure the port as access, trunk, or hybrid:
Access port (single VLAN): `CodeCopy port link-type access`
port default vlan 10
Trunk port (multiple VLANs): `CodeCopy port link-type trunk`
port trunk permit vlan 10 20 30
Hybrid port (mixed behavior): `CodeCopy port link-type hybrid`
port hybrid permit vlan 10 20
port hybrid untagged vlan 10
Ensure the VLANs exist before assigning them.

Step 5: Verify Optical Module Status Check 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 Configuration After configuration, save the changes to prevent loss after reboot: `CodeCopysave`
Additional Tips For 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 IP

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

How To View Optical Transceiver Information On H3C Switches

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

H3C Switch Command Mastery: Streamlined Configuration

This article provides a hands-on guide to 50+ essential H3C switch commands, revealing hidden shortcuts and best practices derived from real-world deployments in Fortune 500 ...

How to Master H3C Device Switch Commands: A Comprehensive Guide

Ready to optimize your network management? Explore our comprehensive guide to H3C device switch commands. Upgrade your skills and browse Router Switch for top-notch products now.

H3C S1600V2 Switch Series Web Configuration Guide

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

H3C Campus Fixed-Port Switches Web-Based Configuration Guide

The H3C Campus Fixed-Port Switches Web-Based Configuration Guide describes the web functions of the H3C Campus Fixed-Port Switches, such as web overview, task fundamentals, and configuration

Network Cards, Adapters, and NICs Explained: Types

Learn what network cards, adapters, and NICs are. Understand wired vs wireless, PCIe vs USB, 1G-100G speeds, RJ-45 vs SFP+, installation and performance

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

Switch Port Planning + Optics & Cabling for 10G/25G/100G (2026)

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

Enterprise High-Availability: VRRP, MLAG & ECMP Explained

MLAG (Multi-Chassis Link Aggregation): A Layer 2 technology that tricks downstream devices into seeing two physical switches as one. Provides Active/Active forwarding and eliminates

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

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

Products Data Center Switches Campus Network Switches AON Network Industrial Switches Data Center Switches Ultra-wideband, simple, and intelligent integration For intelligent ultra-wideband

All AI Data Center Interconnects Will Be Optical Within

All AI Data Center Interconnects Will Be Optical Within 5 Years InP and SiPho join CMOS as critical technologies. Lasers, CPO and OCS will be

Related Video Reference

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

Contact Us

Continue your research online:

Website: <https://cjcconsultants.co.za>

Technical inquiry: <https://cjcconsultants.co.za/contact.html>

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

