

Configuration of optical modules for connecting two H3C switches

Article Overview

To connect two H3C switches via optical modules, use compatible SFP/SFP+ transceivers, ensure proper fiber cabling, and configure ports according to IRF or standard link requirements.

Step 1: Select Compatible Optical Modules

H3C S5810 series switches support hot-plug SFP and SFP+ modules. For a 1G link, use SFP modules, and for 10G links, use SFP+ modules. Ensure the modules are H3C-certified or verified compatible to avoid link issues. Check the module type (SX, LX, or LR) based on fiber type (multi-mode or single-mode) and distance requirements .

Step 2: Connect Fiber Cables

- o Use LC-LC fiber patch cables matching the transceiver type (single-mode or multi-mode).
- o Ensure TX of one module connects to RX of the other (cross-connection). For duplex fiber, the orange/blue or green/blue strands must be correctly aligned.
- o Avoid bending the fiber sharply to prevent signal loss.

Step 3: Configure Ports

- o For standard Ethernet links, simply insert the modules and connect the fiber. The switch will auto-negotiate the link.
- o For IRF stacking, H3C requires cross-connection of logical IRF ports: for example, SW-A port 1/0/53 connects to SW-B port 2/0/53. The IRF logical port must be configured as active, and the ports should remain shutdown during configuration and rebooted after completion .
- o Use commands to verify module status:
display transceiver interface display interface brief These commands show link status, module type, and DDM metrics such as optical power and temperature .

Step 4: Verify the Link

- o Check that the port LED is green and the interface shows up/up status.
- o Use display interface to confirm transceiver health and optical signal levels.
- o If the link does not come up, verify module compatibility, fiber polarity, and port configuration.

Step 5: Optional Security and Binding

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For enterprise environments, consider MAC/IP/port binding to prevent unauthorized access. Commands like `user-bind mac-address interface`

can restrict access to specific devices. By following these steps, you can establish a reliable optical connection between two H3C switches, whether for standard uplinks or IRF stacking. Proper module selection, fiber cabling, and port configuration are key to ensuring stable and high-performance links.

As shown in Table3-1, two types of console cables can be used for connecting the switch to a configuration terminal. The switch is not

When using optical modules on a switch, even the same switch model may yield different optical module test results

Connect Ethernet 2/0/1 of the switch with a multicast source, and connect port OLT 3/0/1 of the OLT with an ONU, which is bound to

Switch Stacking/IRF Configuration | H3C switches IRF Setup In this video, I demonstrate

Complete H3C Comware switch security configuration tutorial (MAC/IP/port binding), plus full optical module matching list

The Layer 2--LAN Switching Configuration Guide describes LAN switching fundamentals and configuration. It describes how to

H3C devices support many types of transceiver modules in different specifications. H3C fiber network cables are Active Optical

Setting up the configuration environment Setting terminal parameters Powering on the switch Configuring the switch Configuring

Today ETU-Link will introduce the matching scheme for H3C S5810 series switch and optical module. S5810 is a rack

Users must pass 802.1X authentication to access the Internet. They use the H3C iNode client to initiate 802.1X

Remove dust plugs from the optical modules and insert fiber connectors into the corresponding optical ports. After verifying that all

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01-Fundamentals Configuration Guide Home Support Configure & Deploy Configuration Guides H3C S6800 & S6860 Switch Series

Preface The H3C S7500E documentation set includes 12 configuration guides, which describe the software features for the H3C

View & download of more than 5175 H3C PDF user manuals, service manuals, operating guides. Switch, Network Router user

· Ethernet link aggregation configuration in the Layer 2--LAN switching configuration guide for the device. · Ethernet link aggregation

For more information, see H3C CR16000-M Routers Hardware Information and Specifications. Installing a transceiver module and

Web: <https://in-au.co.za>

