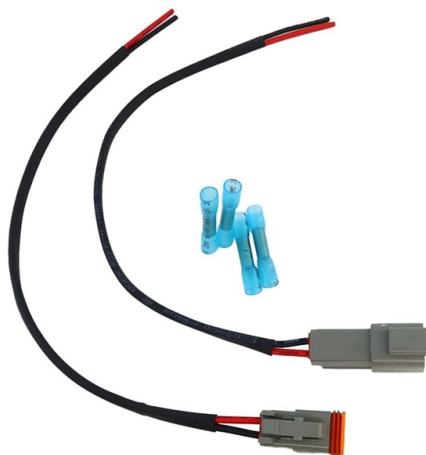


How to configure the optical port of an H3C Layer 3 switch



Overview

Optical transceivers are widely applied in switches, routers, network cards and other communication equipment.

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` `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

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For the differences in the command keywords, see M-LAG configuration in H3C S6805 & S6825 & S6850 & S9850 Switch Series Layer 2—LAN Switching Configuration Guide.

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