H3C Switch Optical Port Mode

Overview

Support Use the combo enable command to activate the electrical or optical port of a Combo interface. By default, the electrical port of a H3C Device Optic.

Key Takeaways

H3C switch optical ports can be configured in either fiber or copper mode using combo ports, with commands to enable the desired interface and monitor transceiver status.Combo Port Overview

H3C switches often feature combo ports, which integrate both an optical fiber (SFP) and a copper (RJ45) interface. Only one mode can be active at a time to prevent signal conflicts. This allows flexible deployment depending on distance, reliability, and network requirements .

Configuring Optical Ports

To configure a combo port:

• Enable Fiber Mode: Use the command combo enable fiber to activate the SFP interface. This is recommended for long-distance transmission or when high reliability is required .

• Enable Copper Mode: Use the command combo enable copper to activate the RJ45 interface for standard Ethernet connections .

• Verify Interface Status: After configuration, check the port status with:
• display interface brief – shows all ports, link status, and speed.

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• display interface – provides detailed transceiver information, including type, link status, and traffic statistics .

Best Practices
• Default to Fiber: For critical or long-distance links, fiber mode is preferred.

• Check SFP Modules: Ensure the optical module is firmly inserted and the wavelength matches the network requirements.

• Monitor Link Status: Regularly verify the port is UP and traffic is flowing correctly.

• Avoid Conflicts: Only one mode (fiber or copper) should be enabled at a time on a combo port .
Troubleshooting
• If the link is unavailable in fiber mode, confirm the SFP module is compatible and properly seated.

• Use display interface commands to check for errors such as CRC, input/output errors, or mismatched speed/duplex settings . By following these steps, you can effectively configure and manage H3C switch optical ports, ensuring reliable network connectivity and proper utilization of combo interfaces.

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The output shows that the max-ecmp-num setting is 8 and the switch-mode setting is NORMAL on the neighboring device connected

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The procedure of configuring access switch 1 is the same as the procedure of configuring access switch 2. This section uses access

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1 Port Correlation Configuration The term switch in this document refers to a switch in a generic sense or an access controller

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· You can specify a port security mode when port security is disabled, but your configuration cannot take effect. · Changing the port

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