

H3C Optical Module Startup



Summary of Content

H3C optical modules start up automatically when inserted, and their operational status can be verified via CLI commands on the switch.

Optical Module Overview

H3C devices support a variety of optical modules, including transceivers, optical transmitters, receivers, and transponders. Transceivers handle optical-to-electrical and electrical-to-optical conversions and provide functions such as optical power control, signal probing, IV conversion, and decision regeneration. Common form factors include SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD, CFP, CFP2, and CXP. Supported data rates range from 100 Mbps to 400 Gbps, and transmission distances are classified as short-range (≤ 2 km) or long-range (≈ 10 km) depending on fiber type and module specifications.

Startup and Initialization

When an optical module is inserted into an H3C device:

- **Automatic Detection:** The switch detects the module and initializes it. The module performs self-checks, including TX-disable status, counterfeit-prevention query, and optical power calibration.
- **Interface Activation:** The corresponding interface on the switch is brought up. A link state of UP indicates normal operation. If the link remains down, it may indicate a mismatch in module type, fiber, or configuration.
- **Data Transmission:** Once initialized, the module begins transmitting and receiving optical signals according to its rated data rate and wavelength (850 nm, 1310 nm, or 1550 nm).

Article Content

Guidelines For Upgrading H3C Switch Software Versions Using TFTP

To promptly identify or resolve module compatibility issues and improve the adaptability of modules to the device,

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H3C High-End Routers Quick Start Maintenance Guide Document version:
6W101-20230307

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

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Configuring the router At the first startup of the router, you are required to configure basic parameters for the router. For more

H3C Transceiver Modules User Guide

Preface H3C Transceiver Modules User Guide describes the types, views, and specifications of transceiver modules and network

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How To View Optical Transceiver Information On H3C Switches

Optical modules are commonly used in switches, network cards, routers and other communications equipment, in the

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· SFP port—GE SFP fiber transceiver module and optical fiber, GE SFP copper transceiver module and twisted pair cable or GE SFP

H3C Devices CLI Reference

When the device starts up without a valid next-startup configuration file, the device searches the root directory of its default file

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If you have specified a main startup configuration file, and this configuration file is available, the device starts up with this startup

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PoE optical transceiver modules available for H3C devices use PELC connectors. With conductive terminals, a PELC connector can

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To identify whether the transceiver module type matches the optical fibers, see H3C Transceiver Modules User Guide. If they do not

H3C Products Catalogue

H3C FS5500V2-EI series switches support a new generation of optical and electrical combined interfaces and provide 300m PoE+ +

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The backup next-startup configuration file if the main next-startup configuration file is unavailable or corrupt. If both the main and

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5 Appendix C Optional transceiver modules Common transceiver module Transceiver module, fiber connector, and fiber view You

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If the transceiver module is not operating correctly, replace it with a new H3C transceiver module that matches the fiber port. For

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Device Management Commands boot-loader Syntax boot-loader file file-url slot slot-number { main | backup } View User view Default

H3C S1600V2 Switch Series Web Configuration Guide

Verify that the wavelength and transmission distance of the local transceiver module are consistent with the wavelength and

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· For remote console login, you can use an optical disk drive, bootable USB disk, PXE server, or virtual media (virtual disk, CD/DVD,

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You can choose optical modules as needed for data transmission over optical fibers. The optical modules include optical

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Knowledge Base

Check the diagnostic information, which shows that the received optical power is low, with a threshold of -3 to -23.01,

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Use the display device command to display the module type and working status information of a card, including

How To Turn Off Alarms For Third-Party Modules On H3C Switches

By default, a large number of alarm messages will be generated if the module is verified as non-H3C original. H3C

Contact Us

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