

Article Overview

H3C optical port switches provide high-speed fiber connectivity for enterprise and data center networks, supporting SFP/SFP+ modules and advanced co-packaged optics (CPO) for ultra-high throughput.

Overview

H3C offers a range of switches with optical ports designed for enterprise, data center, and AI/ML workloads. These switches support fiber connectivity via SFP, SFP+, and QSFP modules, enabling flexible uplink and high-speed interconnects . Optical ports allow for long-distance, high-bandwidth connections between switches, servers, and storage devices.

Key Models and Features

- o H3C S7003X Series with LSCM2CGT24TSSC8 Module: This line card provides 24 Gigabit RJ-45 ports and 4x 10G SFP+ fiber ports, supporting both 1G and 10G optical modules. It integrates VLAN tagging, QoS, ACL enforcement, and is managed via H3C's Comware OS .
- o H3C S9827 800G CPO Switch: Designed for data center core networks, this switch uses co-packaged optics (CPO) silicon photonics to achieve 64 ports at 800Gbps each, with full-line speed forwarding and low latency (1.085 microseconds average delay). It is ideal for AI/ML clusters and high-performance computing environments .

Optical Module Compatibility

H3C switches support a variety of optical modules, including QSFP-40G-LR4, SFP+, and other standard fiber transceivers. Users can check module status and interface information using commands like:

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show interface show interface brief
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These commands provide link state, module type, interface rate, and statistical data, which are essential for troubleshooting and monitoring optical connections .

Applications

- o Enterprise Networks: High-density uplinks and flexible fiber connections for campus or branch networks.
- o Data Centers: High-throughput core and aggregation switches supporting 10G, 40G, and 800G optical links.
- o AI/ML and HPC Clusters: Low-latency, high-bandwidth interconnects using CPO technology for large-scale computing workloads .

Advantages

H3C Optical Port Switch

- o Scalability: Supports multiple optical speeds and modules for future-proof network expansion.
 - o High Performance: Low latency and full-line speed forwarding for demanding applications.
 - o Manageability: Integrated with H3C Comware OS for VLAN, QoS, and security management.
 - o Reliability: Tested for stable operation under high traffic loads, suitable for mission-critical environments .
- H3C optical port switches are therefore a robust solution for organizations seeking high-speed, reliable, and flexible fiber connectivity in both enterprise and data center networks.

In contrast, the EPON-based POL solution leverages the EPON OLT's enhanced Ethernet forwarding and switching capabilities.

S5570S-28S-EI: 24x10/100/1000BASE-T Ethernet ports, 4x1G/10G BASE-X SFP+ ports. As the network

The S9800 switch series includes S9804 and S9810, two models which meet various port density and performance requirements.

The H3C CN3360B switch is designed for enhanced flexibility and better investment protection, featuring a compact 1U form factor

H3C S7500X Enterprise Core Switch Series Wire speed 10G/40G/100G line card H3C S7500X switch series is the first of its kinds in

It combines 24x Gigabit RJ-45 ports and 4x 10G SFP+ fiber ports, offering flexibility and high density for enterprise and data center

H3C industrial switches can operate in -40°C - 75°C environments for a long time, and use industrial components to reach IP40

H3C completed a massive test of its co-packaged optics (CPO) enabled Ethernet switch (H3C S9827) driving traffic

H3C S1850V2-X switch series comes with standard Gigabit copper ports and Ten-Gigabit optical ports, making it a good fit for

The H3C CN6675B Switch is a Gen 7 high-density building block that enables dense rackmount environments to connect more

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H3C Optical Port Switch

Switches Managed and unmanaged Ethernet Fiber Optic Switches for industrial networks. Switches range from 2 to 6 ports, speeds

SFP ports enable Gigabit switches to connect to fibers and Ethernet cables in order to

Moxa is the leading supplier of industrial Ethernet switches, achieving connectivity from outer space to the ocean floor. Choose the

The S12500X-AF switch series includes S12504X-AF, 12508X-AF and S12516X-AF, which meet various port density and

H3C S12500R is currently the industry's leading switching router product designed for WAN, 5G bearer network and data center DCI

Web: <https://bssoda.pl>

