

H3C Optical Switch



AI Overview

H3C Core Optical Switches are high-performance, scalable switches designed for data center cores, cloud services, and next-generation campus networks, supporting advanced optical transmission and virtualization technologies. Overview H3C offers several core optical switch series, including the S12500, S10500, and S9827, each tailored for high-speed, high-density networking in data centers and enterprise environments. These switches integrate advanced optical technologies to ensure low latency, high throughput, and reliable connectivity for large-scale networks.

Key Features

- High Port Density and Speed:** The S12500 series supports multiple models (S12504X-AF, S12508X-AF, S12516X-AF) to meet varying port density and performance requirements, while the S9827 series provides 64 ports at 800Gbps each, achieving full-line speed forwarding.
- Co-Packaged Optics (CPO):** The S9827 leverages CPO silicon photonics technology, enabling ultra-high throughput and low latency, ideal for AI/ML clusters and high-performance computing environments.
- Virtualization:** H3C switches support MDC (Multiple Device Context), allowing a single switch to be virtualized into multiple logical switches, and IRF2, which can virtualize up to two S12500 switches into a single logical fabric for simplified management and high availability.
- Advanced Networking Protocols:** Support for VXLAN, MP-BGP EVPN, and EVI enables scalable Layer 2 connectivity over Layer 3 networks, optimal load sharing, and efficient multi-site data center interconnection.
- Storage Integration:** FCOE (Fibre Channel over Ethernet) and CEE integration allow seamless convergence of LAN and storage networks, reducing infrastructure costs.
- High Availability:** Patented hot standby technology ensures non-stop forwarding on both control and data planes, eliminating single points of failure.
- Optical Module Compatibility:** H3C switches support a wide range of optical modules, including 10G, 40G, and 100G transceivers, DACs, and AOCs, ensuring flexible deployment and reliable optical tra...

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H3C confirms performance of its new 800G CPO Ethernet switch

H3C completed a massive test of its co-packaged optics (CPO) enabled Ethernet switch (H3C S9827) driving traffic across 64 800G ports. The companies said the test results demonstrate

Ethernet Switch Port Types Explained 2026: RJ45,

A complete engineering guide to Ethernet switch port types: RJ45, SFP, SFP+, SFP28, QSFP+, QSFP28, Combo, Stack, PoE, access/trunk/hybrid

Network Cards, Adapters, and NICs Explained: Types

Learn what network cards, adapters, and NICs are. Understand wired vs wireless, PCIe vs USB, 1G-100G speeds, RJ-45 vs SFP+, installation

Spirent validates H3C's 800G CPO SiPho switch series

Spirent Communications plc says it has supported H3C in successfully completing the industry's first large-scale high-density 800G

H3c Lscm2cgt24tssc8 Optical Interface Switching Routing Engine

The H3C LSCM2CGT24TSSC8 is a high-density switch module with 24x Gigabit ports and 4x 10G SFP+ ports. Designed for H3C S7003X series, it offers advanced switching and routing features for

Cisco SFP vs GBIC vs XFP vs SFP+: The Practical

All NS Comm optics, patch cords, and modules are multi-brand compatible, tested for Cisco, Huawei, H3C, Arista, and Alcatel-Lucent switches.

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LS-S5120V2-20P-LI H3C 16 Gigabit electrical ports 4 Gigabit optical ports Layer 2 enterprise-level series switch H3C S5120V2-LI Gigabit Access Switch Series H3C S5120V2-LI is the latest development of

H3C confirms performance of its new 800G CPO Ethernet switch

The H3C S9827 series is an 800G data center switch based on CPO silicon photonics technology. It has a total switching capacity of up to 51.2T, and all 64 ports achieve 100%-line speed

H3C All-Optical Network Technology White Paper-6W100

In contrast, the EPON-based POL solution leverages the EPON OLT's enhanced Ethernet forwarding and switching capabilities. iOptic network devices H3C provides an extensive array of iOptic Ethernet

Compatible HP 155M SFP Transceiver Suppliers,manufacturers ...

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How To View Optical Transceiver Information On H3C Switches

Optical transceivers are widely applied in switches, routers, network cards and other communication equipment. Querying transceiver parameters helps monitor real-time operation and

H3C CN6675B Switch Product Brief

The H3C CN6675B Switch is a Gen 7 high-density building block that enables dense rackmount environments to connect more devices and build larger fabrics. Its 128 line-rate 64G ports in a 2U

Fiberhome ol100cl-04 optical transceiver module | gigabit ...

Tired of frustrating network cabling issues? dealing with alarm-triggering optical modules, sky-high packet loss, and endless incompatibility issues after three replacements? don't put up with it

400G Optical Modules 2026 Guide: DR4 vs. FR4 vs.

Our CCIE/HClE team shares lab-tested benchmarks for DR4, FR4, and LR8, focusing on power efficiency, latency, and AI cluster scalability.

S6700-24-Ei/S6700-48-Ei Full 10g All-Optical Core Fiber Switch

Brand□ Huawei Condition□ Brand New Is It Stackable?□ Not Stackable Transfer Speed□ 1000Mbps Color Classification□ S6700-24-EI S6700-48-EI 0SX010000 Model□ S6700-24-EI After-Sales

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H3C S1600V2 Switches: Model Comparison, PoE Budgets and Uplink

For 2026 planning, the H3C S1600V2 series is a "right-sized" access-switch family for small/medium networks that need Gigabit edge ports, simple Web/Cloudnet management, and (when required)

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 provides CLI commands to suppress these optical module alarm

Switches

Established in 2003, H3C, has provided tens of millions of switches in China, where its switch market share rose to 34.5% in 2017 Q3 (Source: IDC). The company

H3C FS5500V2-EI Series Converged Optical Electrical Switches

Visualization Ability H3C FS5500V2-EI series switches support Telemetry technology, which can send the switch's real-time resource information and alarm information to the O& M platform through the

800G Silicon Photonic Switches: Revolutionizing AIGC

H3C's 800G CPO silicon photonic data center switch, H3CS9827-64EO, has a single-chip 51.2T switching capacity, supports 64 800G ports, and

H3C S5130S Switches 2026 Guide: Specs, PoE

Explore the complete 2026 buying and design guide for H3C S5130S, forwarding rate, uplinks, PoE budgets), deployment patterns for Wi-Fi 7 and campus access.

Switches-H3C

H3C industrial switches can operate in -40°C - 75°C environments for a long time, and use industrial components to reach IP40 rating. At the same time, with shockproof, anti-electromagnetic

H3C FS5500V2-EI Series Converged Optical Electrical Switches

H3C FS5500V2-EI series switches implement a hardware-based IPv4/IPv6 dual-stack platform, support multiple tunnel technologies, rich IPv4 and IPv6 Layer 3 routing protocols, multicast technologies and

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LS-S5120V2-28P-LI H3C 24*10/100/1000 Base-T ports 4*1GE optical web access switch H3C S5120V2-LI Gigabit Access Switch Series H3C S5120V2-LI is the latest development of Gigabit Layer 2

Contact Us

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