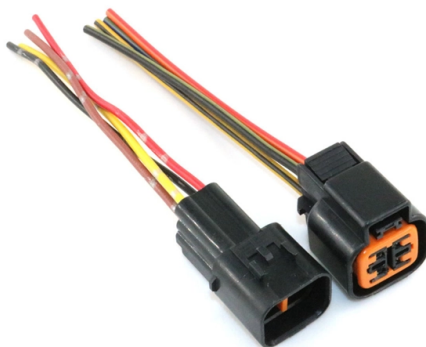


H3C Fiber Optic Switch Selection



Overview

The H3C CN6675B utilizes 96 64G SFP+ ports and 16 2x64G double-density optical transceiver (SFP-DD) ports.

Key Takeaways

Choosing the right H3C fiber optic switch depends on your network scale, deployment scenario, and required port speeds, ranging from access-layer S5130S models to high-density SAN CN6675B switches.

For small- to mid-sized campus or branch networks (under 100 users), the H3C S5130S series is a practical choice. These switches support fiber uplinks and offer flexible port configurations:

- S5130S-EI: Enhanced Gigabit access with copper and fiber ports, PoE support, and stacking options. Ideal for Wi-Fi 6/6E/7 APs, IP surveillance, and VoIP endpoints .
- S5130S-LI: Simplified managed switches with 10G SFP+ uplinks, suitable for SMBs or branch offices needing basic Layer 3 routing, security, and QoS .
- S5130S-EI-G: Higher 10G uplink density for campus aggregation or edge deployments, supporting multigigabit and fiber-heavy setups . These models allow standardized operations while right-sizing hardware per closet, supporting IPv6, security, and PoE as baseline requirements.

Core and Data Center Networks

For large-scale data centers or high-performance core networks, consider the H3C S12500R:

- Supports up to 48 ports of 400G per slot, ideal for ultra-wideband cloud data centers .
 - Provides multi-service capabilities including SDN, PON, security, and PoE.
 - Suitable for environments requiring high scalability, intelligence, and visualization. This series is recommended only for high-capacity fabrics; smaller deployments do not require this level of performance .
- Storage Area Networks (SAN)

For fiber optic SAN environments, H3C offers the CN series:

- CN3360B: Compact 1U switch with 8-24 ports, supporting 4/8/16/32Gbps speeds. Offers simplified deployment and “pay-as-you-grow” scalability .
- CN6675B: Gen 7 high-density switch with 128 line-rate 64G ports in a 2U design, including 96 SFP+ and 16 SFP-DD ports. Optimized for NVMe storage, high-transaction workloads, and autonomous SAN management . These switches provide high performance, low latency, and integrated security, making them suitable for enterprise storage networks requiring dense fiber connectivity.

Selection Guidelines

- Determine deployment scenario: Access, aggregation, core, or SAN.
- Assess port speed and density: Gigabit, 10G, 25G, 40G, 100G, or 400G depending on traffic requirements.
- Consider PoE and fiber needs: For Wi-Fi APs, IP cameras, or IoT devices, PoE and fiber uplinks are essential.
- Plan for scalability: Choose modular or stackable switches if future growth is expected.
- Management and OS: H3C switches run Comware V7/V9, offering CLI, web, and API-based management for automation and monitoring . By matching the switch series to your network size, fiber requirements, and performance needs, you can optimize cost, reliability, and future-proofing.

Article Content

H3C CN Series Fibre Channel Switches

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

Optical Switches

We lead the industry in optical switch technology, delivering the lowest insertion loss (0.2 dB), fastest switching speed (10 ns),

H3C Fiber Switch Unleashed: Can Your Network Survive the

That's the mark of a truly strategic high-performance infrastructure investment. Choosing robust H3C Fiber Switches positions your

H3C CN6675B Switch Product Brief

The H3C CN6675B utilizes 96 64G SFP+ ports and 16 2x64G double-density optical transceiver (SFP-DD) ports. The addition of

H3C Products Catalogue

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

H3C FS5500V2-EI Series Converged Optical Electrical Switches

In the campus network, H3C FS5500V2-EI series switches can be used as aggregation layer equipment, or as the core of small and

H3C CN6665B Switch Product Brief

The H3C CN6665B Switch with Gen 6 Fibre Channel and Fabric Vision technology delivers unmatched 32G performance, industry

A Complete Buying Guide to Fiber Optic Switches

If you plan to upgrade to fiber optic network or blend fiber optics into your existing legacy network, you will require a fiber optic

Switches

After over 20 years of networking innovation, research and development, H3C has accumulated significant industry-leading Ethernet

H3C S1200 Unmanaged Gigabit Ethernet Switch Series

H3C S1200 is self-developed unmanaged Gigabit switch series by H3C, which delivers wire-speed Gigabit Ethernet connectivity, in

H3C ES4200 Gigabit Switch Series

H3C ES4200 series is the latest development of Gigabit speed managed Ethernet switch. Besides high-performance access, it also

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

