

HPE Storage Fibre Channel Switch C-series SN6630C



What's new

- New subscription-based Advantage and Premier license bundles with Cisco DCNM, Enterprise and SAN Analytics

Overview

Are you looking to modernize your storage area network?

The all-flash data center and emerging NVMe storage requires a modern storage network that can keep up with pace of innovation seen with compute and storage resources. The HPE C-series SN6630C Fibre Channel Switch is the next generation 96-port 2-rack unit Fibre Channel (FC) switch that provides high-speed Fibre Channel connectivity in the SAN. This switch offers state-of-art analytics and telemetry capability built into its next-generation Application-Specific Integrated Circuit (ASIC) platform. The Non-Volatile Memory express (NVMe)-ready switch allows a seamless transition to Fibre Channel Non-Volatile Memory Express (FC-NVMe) workloads whenever available without any hardware upgrade in the SAN. This high-density, highly reliable, and scalable, enterprise-class switch is ideal for medium to large departmental SANs.

Features

High-speed Flash-ready Performance

HPE C-series SN6630C Fibre Channel Switch with centralized non-blocking arbitration, provides consistent 32 Gbps low-latency performance across traffic conditions for every Fibre Channel port on the switch.

Delivers increased performance with an aggregate bandwidth of 3 Tbps for growing and dynamic workloads.

It offers state-of-the-art SAN Insights (analytics) and telemetry capabilities that have been built into this next-generation hardware platform.

FC-NVMe-ready SAN switch with enhanced buffer-to-buffer (B2B) credits connecting both storage and host ports and FC link encryption.

More Flexibility

HPE C-series SN6630C Fibre Channel Switch provides an option to deploy as few as 48 32-Gbps FC ports in the entry-level variant, and then grow in increments of 16 ports to up to 96 ports. This allows four possible configurations of 48, 64, 80, and 96 ports.

The 32 Gbps ports allow users to deploy them on existing 16 or 8 Gbps transceivers, reducing initial CapEx and investment protection with an option to upgrade to 32 Gbps transceivers and adapters whenever needed.

Increased fabric scalability provides more flexibility for a variety of SAN architectures.

Easy Manageability

HPE C-series SN6630C Fibre Channel Switch supports enhanced diagnostic features such as inter-switch link (ISL) and host-bus-adapter (HBA) diagnostics, read diagnostic parameters, link cable beacon, and advanced reliability features such as forward error correction (FEC) with HBA ports.

Cisco Data Center Network Manager Essentials Edition software, included with the switch, provides a centralized management tool with task-based wizards that simplifies management of switches and fabrics. Additional advanced features are available with the DCNM licensed version, sold separately.

Starting NX-OS 9.2(1), DCNM is renamed as Cisco Nexus Dashboard Fabric Controller (NDFC).

Cisco SAN Insights delivers deep visibility into I/O traffic between the compute and the storage infrastructure. This information is in addition to the already-available visibility obtained from individual ports, switches, servers, virtual machines, and storage arrays.

Intelligent Network Services for SAN

HPE C-series SN6630C Fibre Channel Switch supports slow-drain detection and isolation, virtual SAN (vSAN) technology, access control lists for hardware-based intelligent frame processing, smart zoning, and other various services.

Provides visibility into all virtual machines that are accessing the storage LUNs in the fabric and offers an end-to-end view for analytics.

Delivers powerful representational state transfer (REST) and NX-API capabilities to enable flexible and rapid programming of utilities for the SAN.



Technical specifications**HPE Storage Fibre Channel Switch C-series
SN6630C**

Port speed	32Gb Fibre Channel
Aggregate switch bandwidth	3 Tbps
Encryption capability	AES 256 bit
Protocol supported	Fibre Channel
Management software	Cisco Data Center Network Manager (DCNM)
Availability features	Hot-swappable, NVMe Ready, N-Port ID Virtualization (NPV), Access Control List (ACL), and Quality of Service (QoS).
Form factor	2U
Model availability	48-port base switch, 48-port 32Gb SFPs bundled switch, 96-port fully populated 32Gb SFPs bundled switch
Software (required)	NX-OS 8.3(1) or later, NX-OS 9.2(2) is required for advantage and premier licenses
Ports	96 ports
Software (optional)	Port upgrade license, Enterprise Package license, Cisco Data Center Network Manager (DCNM) license, SAN Insights (1/3/5 yrs), Advantage license (1/3/5 yrs), Premier license (1/3/5 yrs)
Product dimensions	8.61 x 44.25 x 56.59 cm
Weight	18.88 kg



[For additional technical information, available models and options, please reference the QuickSpecs](#)

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HPE runs your IT operations, giving you unified control, so can focus on innovation.

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Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

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HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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