

HPE SN6010C 12-port 16Gb Fibre Channel Switch (K2Q16A)



What's new

- New subscription-based Advantage bundle with Cisco DCNM/NDFC and Enterprise license
- Newly bundled offering with 16 Gb SFPs

Overview

Are you looking for a high-performance Fibre Channel switch for departments, enterprises, or the edge?

The HPE Storage Fibre Channel Switch C-series SN6010C is a high-performance, flexible, and cost-effective platform providing high-density, 16Gbps ports for storage networking deployments in small, medium-sized, and large enterprise environments. This switch offers outstanding value by providing high-availability, security, and ease of use at a cost-effective price in a compact one-rack-unit (1RU) form factor. With the flexibility to expand from 12 to 48 ports in 12-port increments, it offers the densities required to scale from an entry-level departmental switch to top-of-the-rack switch to edge connectivity in enterprise SANs. This switch delivers a non-blocking architecture, with all 48 4/8/16Gbps ports operating at line rate concurrently. With dual redundant hot-swappable power supplies and fan trays, this switch offers high availability scalable to mission-critical deployments.

Features

High Performance for NVMe/All-flash Arrays and Virtualized Workloads

HPE Storage Fibre Channel Switch C-series SN6010C includes 16Gbps of dedicated bandwidth for each port and aggregate platform bandwidth of 768Gbps. It is designed to meet the performance and scalability requirements of the most demanding environments.

Compatible with HPE Storage SN8000C (MDS 9500 Series) and HPE Storage SN8500C / SN8700C (MDS 9700 Series) multilayer directors and MDS 9100, 9200 and, MDS 9300 series fabric switches with up to 48 autosensing fibre channel ports capable of speeds of 16, 8, 4, and 2Gbps.

Offers flexibility to “pay as you grow” by scaling the HPE Storage Fibre Channel Switch C-series SN6010C from 12port to 48port density, after enabling additional ports, and adding on-demand port activation licenses.

Delivers outstanding availability and reliability by providing optional redundancy on all major components, such as power supplies and fans.

Fibre channel Storage Networking Services at a Cost-effective Price

HPE Storage Fibre Channel Switch C-series SN6010C supports innovative features such as virtual storage area network (VSANs), port channels, quality of service (QoS), SAN security, SAN management, hardware-enforced zoning, and in-service software upgrade (ISSU) at no additional cost to the user.

Includes VSAN technology that provides a cost-effective way to consolidate resources while providing high resiliency to potential fabric disruptions.

Provides advanced traffic management capabilities integrated into the HPE Storage Fibre Channel Switch C-series SN6010C to simplify deployment and optimization of core-edge fabrics.

N_Port ID Virtualization(NPIV) and N-Port Virtualization (NPV) technology provides independent management for each virtual machine and scaling of SANs without reaching Fibre Channel domain ID limits.

High Availability Platform

HPE Storage Fibre Channel Switch C-series SN6010C is designed for mission-critical environments in which downtime is unacceptable.

Offers non-disruptive software upgrades, dual hot-swappable power supplies (integrated fans for redundancy), hot-swappable fans, VSANs for fault isolation, port channels for ISL resiliency, and F-port trunking for resiliency on uplinks operating in NPV mode.

Simplified Management

HPE Storage Fibre Channel Switch C-series SN6010C supports SAN plug-and-play capability as well as built-in storage network management, with all features available through a command-line interface (CLI) or the Cisco Data Center Network Manager for simplified storage management.

Data Center Network Manager software provides a centralized management tool with task-based wizards that simplifies management of a standalone switch or multiple switches and fabrics. Starting NX-OS 9.2(1), Cisco DCNM is renamed as Cisco Nexus Dashboard Fabric Controller (NDFC).

Common platform architecture and the use of MDS 9000 NX-OS Software intelligent storage networking services across all MDS 9000 Family switches reduce ongoing operating expenses by providing a consistent set of provisioning, management, and diagnostic capabilities.



Technical specifications**HPE SN6010C 12-port 16Gb Fibre Channel Switch**

Product Number	K2Q16A
Port speed	16Gb
Aggregate switch bandwidth	768 Gbps, maximum
Encryption capability	AES 256-bit
Protocol supported	Fibre Channel
Availability features	Non-disruptive software upgrades, hot-swappable and dual redundant power supplies, hot-swappable fan tray, hot-swappable SFP+ optics, stateful process restart
Form factor	1U
Upgradability	Activate additional ports using 12-port upgrade license
Media types	Supports 16Gb and 8Gb transceivers
Ports	12-port active
Software (optional)	Port upgrade license, Enterprise Package license, Cisco Data Center Network Manager (DCNM) license, Advantage license (1/3/5 years)
Product dimensions	4.37 x 43.59 x 41.50 cm
Weight	9 kg



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

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Experts can help you map out your path to hybrid cloud and optimize your operations.

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

Operational services

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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