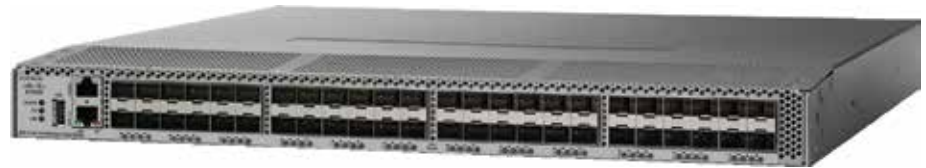**Hewlett Packard Enterprise**

HPE StoreFabric SN6010C 16Gb Fibre Channel Switch

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

Key features and benefits

High performance with exceptional flexibility
- Includes 16 Gbps of dedicated bandwidth for each port and aggregate platform bandwidth of 768 Gbps; HPE StoreFabric SN6010C 16Gb Fibre Channel Switch is designed to meet the performance and scalability requirements of the most demanding environments

- Compatible with HPE SN8000C (Cisco MDS 9500 Series) and SN8500C (Cisco MDS 9700 Series) Multilayer Directors, Cisco MDS 9100 and 9200 Series Fabric Switches and SN6000C and SN6500C (Cisco MDS 9148 and MDS 9250i respectively) Switches with up to 48 autosensing Fibre Channel ports capable of speeds of 16, 8, and 4 Gbps

- Offers flexibility to "pay as you grow" by scaling the HPE StoreFabric SN6010C 16Gb FC Switch onsite by enabling additional ports by adding on-demand port activation licenses

Intelligent storage networking services at a cost-effective price
- Supports innovative features such as virtual SANs (VSANs), PortChannels, 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 and provides a cost-effective way to consolidate resources while providing high resiliency to potential fabric disruptions

- Provides advanced traffic management capabilities integrated into the StoreFabric SN6010C 16Gb FC Switch and simplify deployment and optimization of core-edge fabrics

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

High availability platform
- 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, PortChannels for inter-switch link (ISL) resiliency, and F-port trunking for resiliency on uplinks from a StoreFabric SN6010C 16Gb FC Switch operating in NPV mode

Simplified management
- Supports SAN plug-and-play capability as well as built-in storage network management, with all features available through a CLI or Cisco Data Center Network Manager (DCNM) for simplified storage management.
- Cisco DCNM, available with StoreFabric SN6010C 16Gb FC Switch, provides a centralized management tool with task-based wizards that simplifies management of a standalone switch or multiple switches and fabrics at no additional cost.

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

HPE StoreFabric SN6010C 16Gb Fibre Channel Switch

Port speed	16 Gbps Fibre Channel
Ports	(12–48) Fibre Channel range, depending on model
Aggregate switch bandwidth	768 Gbps maximum, depending on model
Encryption capability	Advanced Encryption Standard (AES) 256-bit
Protocol support	Fibre Channel
BladeSystem supported	No
Availability	Non-disruptive software upgrades, dual hot-swappable power supplies (with integrated fans for redundancy), and hot-swappable fans
Media types	Small form factor (SFF)
Management	Cisco MDS 9000 Family CLI, Cisco DCNM, Quick Configuration Wizard, HPE StoreFabric DCNM License (optional), and HPE MDS 9100 Enterprise Package license (optional)
Upgradeability	12-port FC upgrade license
Models available	12-port model and 48-port model
Optional software	HPE MDS 9100 Enterprise Package License, HPE StoreFabric SN6010C Data Center Network Manager (DCNM) License, and HPE StoreFabric SN6010C 12-port 16Gb Fibre Channel Upgrade LTU
Required software	MDS 9000 NX-OS Software Release 6.2(9) or later
Form factor	1U
Warranty (parts-labor-onsite)	1/1/1
Warranty and included service	(1-1-1) hardware warranty—one-year on-site warranty, normal business hours, next-business-day response, installation not included

The total package

Cisco Device Manager

HPE StoreFabric SN6010C 16Gb FC Switch supports the Cisco Device Manager quick configuration wizard, which allows it to be deployed quickly and easily in networks of any size. Powered by C-series MDS 9000 NX-OS software, it includes advanced storage-networking features and functions and is compatible with HPE StoreFabric SN8000C 8Gb and HPE StoreFabric SN8500C 16Gb Multilayer Directors and HPE StoreFabric SN6000C and HPE StoreFabric SN6500C Series Multilayer Fabric Switches, providing transparent, end-to-end service delivery in core-edge deployments.

Cisco DCNM

Cisco DCNM is included with the StoreFabric SN6010C 16Gb FC Switch for integrated, comprehensive management of larger SAN environments. Cisco DCNM is a responsive, easy-to-use Java application that allows administrators to perform vital tasks such as topology discovery, fabric configuration and verification, provisioning, monitoring, and fault resolution.

HPE StoreFabric SN6010C Data Center Network Manager License (optional)

HPE StoreFabric DCNM License extends Cisco DCNM by providing historical performance data collection for network traffic hot-spot analysis, centralized management services, and advanced application integration.

HPE MDS 9100 Enterprise Package License (optional)

HPE's C-series MDS switches have a set of advanced traffic engineering and advanced security features that are recommended for all Enterprise SANs. These features are bundled together in a management application called the HPE MDS 9100 Enterprise Package.

HPE StoreFabric SN6010C 12-port 16Gb Fibre Channel Upgrade LTU (optional)

The HPE SN6010C 12-port 16Gb FC Upgrade License allows users to activate 12-ports at a time and up to a maximum of 48 ports. Customers have the option of purchasing pre-configured StoreFabric SN6010C 16Gb FC Switch models of 12 or 48 ports and upgrading the 12-port model onsite all the way to 48 ports by adding this license.

HPE Factory Express

HPE Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. **hp.com/go/factoryexpress**

Customer Technical Training

Gain the skills you need with ExpertOne training and certification from HPE. With HPE Converged Storage training, you will accelerate your technology transition, improve operational performance, and get the best return on your HPE investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. **hp.com/learn/storage**

Resources

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment.
hp.com/go/hpfinancialservices

HPE Services

Expert HPE storage consultants and service professionals sit down with you and your team to map your storage needs. Not only can we help you accelerate implementation and reduce deployment risk, but we can also help you realize the full value of your storage purchases as you transform storage for the New Style of IT.

Advise, transform, and integrate—Navigate through the complexities of storage, backup, archive, disaster recovery, and Big Data with advisory, transformation, and integration consulting

Deploy and implement—Access expertise to support deployment, operations, relocation, sanitization, and disposal, plus improvement-focused education

Operate and support—Find the level of personalized, proactive, and simplified support that is right for your business:

- **Foundation Care**—System-level IT hardware and software support delivers flexible coverage window and response time for more choice and simplicity

- **Proactive Care**—Combined reactive and proactive services provide easy-to-purchase, cost-efficient system-level support coupled with personalized expert advice and products connected to HPE to help prevent problems and reduce downtime

- **Proactive Care Advanced**—Builds and incorporates on Proactive Care and also gives customers personalized technical and operational advice from an assigned, local account support manager for personalized technical collaboration, flexible access to specialist skills to help optimize business critical IT, and enhanced critical incident management to help so that the business is not affected if there is a system or device outage

- **Datacenter Care**—Get the support you need to deploy, operate, and evolve your data center environment to be hybrid-cloud ready with single-point-of-accountability for HPE and others' product

Note: Specific service availability varies by product. Get connected and get back to business—HPE Storage Technology Services provide the path to get your HPE Storage solutions and your business connected to HPE. Once connected, our experts are able to scan your system and run health checks, then use that data to create personalized reports and recommendations for actions to take to prevent problems and downtime.

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