Have feedback on QuickSpecs? We're listening

HPE Storage Fibre Channel Switch B-series SN6800B QuickSpecs

Advanced Gen 8 technology combines 128Gbps performance, quantum-safe security and AI-powered autonomy to enable the most reliable and efficient way to protect and deliver critical information.

The HPE Storage Fibre Channel Switch B-series SN6800B is a compact, high-performance switch that can be flexibly deployed as an edge or top-of-rack switch. It delivers unprecedented speed, continuous reliability and efficient rack-space utilization to meet the demanding needs of modern data centers.

Overview

The HPE Storage Fibre Channel Switch B-series SN6800B is a high-performance, 1U Fibre Channel switch, purpose-built to meet the demanding needs of modern data centers. With 56 128Gb SFP ports and unmatched low latency, this switch delivers exceptional bandwidth and throughput, making it ideal for fueling enterprise AI and modern workloads.

With its compact design, the HPE Storage Fibre Channel Switch B-series SN6800B enables efficient use of rack space while providing the scalability necessary for future growth. Its advanced Gen 8 technology combines 128Gbps performance, quantum-safe security, and AI-powered autonomy to enable the most reliable and efficient way to protect and deliver critical information.

As workloads become more demanding, cyber threats become more sophisticated, and the spectrum of threats expands, it is essential to fortify the storage network against hidden risks. The network must deliver optimal performance, operate autonomously, streamline management, and protect critical data. Gen 8 technology delivers the performance, automation, and security necessary to enable these capabilities.

Integrated security with quantum-resistant encryption and embedded SAN AI technology safeguards SAN fabrics against cybersecurity threats in the era of quantum computing and modernizes SAN management to operate autonomously and efficiently. This enables faster decision-making, improves operational efficiency, and maintains high levels of resiliency.

The HPE Storage Fibre Channel Switch B-series SN6800B delivers optimal availability for nonstop operations with minimal downtime. In modern IT infrastructure, humans are not fast enough to respond and maintain the uptime the environment requires, and this drives the need for intelligent autonomy.

Built-in congestion management ensures traffic flows smoothly and performance remains consistent, while self-healing capabilities maintain uptime even when issues arise. Set-and-forget automation eliminates the need for constant monitoring and manual intervention, reducing troubleshooting time and enabling IT teams to focus on strategic initiatives.

The HPE Storage Fibre Channel Switch B-series SN6800B simplifies deployment, configuration, and management of SAN resources with a collection of easy-to-use tools. With EZSwitchSetup, organizations can reduce the number of steps to deploy and configure a switch. In addition, the simplified user interface of Web Tools makes the SAN easier to manage. To further simplify operations and increase visibility, the HPE Storage Fibre Channel Switch B-series SN6800B includes HPE B-series Fabric Vision technology to monitor and analyze the SAN. This technology provides actionable insights to quickly identify problems and meet critical service-level agreements (SLAs). To streamline management workflows, organizations can also leverage SANnav Management Portal to accelerate the deployment of new applications, switches, servers, and storage. Furthermore, a modernized graphical user interface (GUI) improves operational efficiencies with visual dashboards for instant visibility and faster troubleshooting.

The HPE Storage Fibre Channel Switch B-series SN6800B meets the demands of hyper-scale virtualization, larger cloud infrastructures, and growing flash storage-based IT environments by delivering market-leading 128Gb Fibre Channel technology. It provides a high-density foundation for increased scalability, designed to support growth, demanding AI-workloads, and data center consolidation in medium to large-scale enterprise infrastructures. It is built for maximum flexibility, scalability, and ease of use. Organizations can scale from 24 to 56 ports in an efficient 1U form factor that delivers industry-leading port density and space utilization. It also provides a simplified deployment process and a point-and-click user interface-making it both powerful and easy to use.

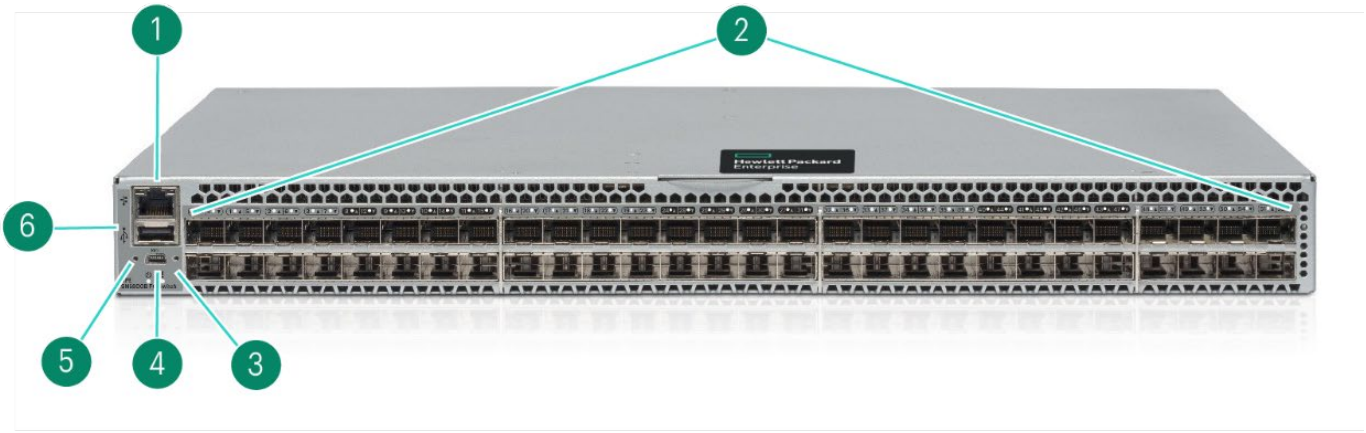
Overview

With the HPE Storage Fibre Channel Switch B-series SN6800B, organizations gain the best of both worlds: high-performance access to industry-leading storage technology and "pay-as-you-grow" scalability to support an evolving storage environment.

The SN6800B is available in two airflow options bundled with either 24 128Gbps or 24 64Gbps Secure Short-Wave Transceivers:

- HPE Storage 128Gb 56/24 24-port 64Gb Short Wave SFP56 Non Port Side Int FC Switch B-series SN6800B
- HPE Storage 128Gb 56/24 24-port 64Gb Short Wave SFP56 Non Port Side Exh FC Switch B-series SN6800B
- HPE Storage 128Gb 56/24 24-port 128Gb Short Wave SFP112 Non Port Side Int FC Switch B-series SN6800B
- HPE Storage 128Gb 56/24 24-port 128Gb Short Wave SFP112 Non Port Side Exh FC Switch B-series SN6800B

In prior generations, "Non Port Side Exhaust" was referred to as "Port Side Intake."



HPE Storage Fibre Channel Switch B-series SN6800B

Item	Description	Item	Description
1.	Management Ethernet Port	4.	UART Mini-USB Serial Console Port
2.	56 SFP+ 128 Gb FC Ports (FC Ports 0–55)	5.	System Power LED
3.	System Status LED	6.	USB Port

Models

HPE SN6800B 128 Gbps FC Switch with 64 Gbps Short Wave Transceivers

Description	SKU
HPE Storage 128Gb 56/24 24-port 64Gb Short Wave SFP56 Non Port Side Int FC Switch B-series SN6800B	S7U32A
HPE Storage 128Gb 56/24 24-port 64Gb Short Wave SFP56 Non Port Side Exh FC Switch B-series SN6800B	S7U33A

Overview

HPE SN6800B 128 Gbps FC Switch with 128 Gbps Short Wave Transceivers

Description	SKU
HPE Storage 128Gb 56/24 24-port 128Gb Short Wave SFP112 Non Port Side Int FC Switch B-series SN6800B	S7U34A
HPE Storage 128Gb 56/24 24-port 128Gb Short Wave SFP112 Non Port Side Exh FC Switch B-series SN6800B	S7U35A

Standard Features

Key Features and Benefits

- Delivers 128 Gbps performance with up to 56 ports, in an energy-efficient, 1U form factor, providing maximum flexibility for diverse deployment and cooling strategies
- Features Ports on Demand (PoD) capabilities for fast, easy, and cost-effective scaling from 24 to 56 ports in 8-port increments. PoD upgrades are available in 8-port upgrade kits, including both the license and 8 optics under one part number.
- HPE Storage Fibre Channel Switch B-series SN6800B is available in two airflow configurations providing flexibility to customers.
- Accelerate critical workloads with 128 Gbps links
  SAN Fabric Intelligence (SAN FI) administrators can eliminate time-consuming, manual correlation of all application resources.
- Simplify troubleshooting by identifying and isolating issues
- Collect comprehensive telemetry data across the fabric to enable powerful analytics
- Visualize the data to easily understand the health and performance of the SAN
- Automate repetitive tasks to save time and eliminate human error
- Support high-density server virtualization, cloud architectures and flash-based storage environments
- Provides proactive, non-intrusive, and real-time monitoring and alerting of SAN health and performance with IO Insight (IO Insight takes advantage of the industry's first integrated network sensors)
- Increases resiliency by automatically discovering and recovering from device or network errors
- Simplifies troubleshooting with real-time and historical visibility in a single dashboard
- Provides a flexible, simple, and easy-to-use SAN solution with industry-leading technology
- Supports highly virtualized, flash storage with multi-tenancy and non-stop operations
- Offers best-in-class port density and scalability for midrange enterprise SAN switches, along with redundant, hot-pluggable components and non-disruptive software upgrades
- In-flight encryption and compression included, ensuring efficient link utilization.
- Congestion Notification that detects and corrects congestion, link integrity and delivery issues providing the self-healing benefits of the autonomous SAN.

Defend the Data Center with Advanced Security

The HPE Storage Fibre Channel Switch B-series SN6800B Switch is built on a cyber-resilient, quantum-safe architecture that fortifies the SAN to protect critical data and applications from quantum computing and cybersecurity threats. By securing storage traffic through Fibre Channel isolation and role-based access controls, Gen 8 networks protect against unauthorized access. The switch uses hardened FOS and hardware, eliminating unnecessary access points, while validating hardware and software roots of trust to ensure only authenticated components operate within the system. These capabilities reduce the risk of hijacking and the installation of malicious software.

- **Post-Quantum Cryptography (PQC):** Integrates next-generation PQC algorithms to safeguard key exchanges and authentication processes, protecting data against future decryption by quantum computers.
- **Quantum-Resistant Encryption:** Utilizes software-driven 256-bit symmetric encryption to secure SAN fabrics from sophisticated modern cyber threats.

- **Principle of Least Privilege Architecture:** Enforces hard access controls that restrict applications, users, and connected systems to the absolute minimum permissions required, reducing the switch's internal attack surface.
- **Integrity Validation & Anti-Tampering:** Monitors for unauthorized firmware or configuration changes, continuously validating software integrity to prevent malicious code injection.

Modernize SAN Management with AI-Powered Autonomy

Gen 8 technology offers a comprehensive suite of features that maximize network uptime, simplify SAN management, and provide unprecedented visibility and insight across the storage network. The HPE SN6800B Switch with Gen 8 technology is equipped with embedded SAN AI technology, which automates application infrastructure management and offers a robust analytics architecture that reduces the need for manual administration, ensuring a resilient network that remains stable and efficient even as workloads and infrastructure complexity continue to grow. Gen 8 technology modernizes SAN management with AI-powered autonomy that learns, adapts, and responds to potential issues using intelligence and automation technologies developed over three decades in the most demanding IT environments.

With self-optimizing capabilities, Gen 8 technology utilizes actionable intelligence to maximize performance. Real-time monitoring of health and performance characteristics enables the network to make smarter decisions on traffic prioritization, congestion management, and notification, ensuring optimal network performance for applications and storage. Adaptive Traffic Optimizer guarantees critical application performance by automatically prioritizing traffic. When traffic characteristics in the fabric change, the performance groups dynamically adapt to provide the optimal performance group configuration for the individual fabric. This advanced capability classifies and separates traffic with similar characteristics, such as protocol, speed, and latency. Additionally, Adaptive Traffic Optimizer can help avoid application performance impacts by automatically isolating traffic that is adversely impacting other flows.

Gen 8 technology leverages extensive data collection capabilities coupled with powerful analytics to quickly understand the health and performance of the environment and identify any potential impacts or trending problems. Built-in intelligence automatically collates millions of data points from across the fabric and simplifies complex telemetry into actionable insights to improve performance, reduce downtime, and simplify operations. In addition, autonomous SAN features monitor fabric behavior, detect anomalies, and self-correct before issues impact performance.

- **SAN Fabric Intelligence (SAN FI):** Automatically learns data center traffic patterns, tracks health, and correlates metrics across hosts, switches, and storage arrays without requiring manual rule-based configuration.
- **End-to-End VM Visibility:** Extends real-time data monitoring cleanly across physical paths and virtual machines (VMs) to map entire workloads automatically.
- **Automated Anomaly Correction:** Autonomously senses fabric disruptions or emerging bottlenecks and applies corrections before application performance degrades.
- **Adaptive Traffic Optimizer:** Learns changing application storage demands dynamically. It utilizes dynamic load balancing across performance groups and virtual channels to sustain critical I/O throughput.
- **Automated Traffic Isolation:** Automatically identifies and quarantines rogue or "slow-draining" devices, isolating problematic traffic paths so they do not impact neighboring storage flows.

Standard Features

SN6800B 128 Gbps FC Switch

- Simplifies enterprise SAN deployment by combining higher edge switch port density with exceptional scalability, performance, and reliability
- Delivers 24, 32, 40, 48 or 56-ports in a 1U enclosure
- Provides 16, 32, 64 and 128 Gbps* performance
- Employs optional Inter-Switch Link (ISL) Trunking to provide a high-speed data path between switches, which enables a high-speed data path between 128 Gbps switches up to 1024 Gbps

Notes: *128 Gbps performance can be obtained between two 128 Gbps-capable devices.

Configuration Support

https://support.hpe.com/hpsc/doc/public/display?docId=c00403562

High-availability features

- Two integrated redundant, hot swappable power supplies with integrated cooling fans
- Enhanced Fault Detection Logic
- Parity protection on all data paths and system memory

Advanced Fabric Services

- Hardware Enforced Zoning
- Frame Filtering
- Built-in Web browser management tools
- SAN Fabric Intelligence (SAN FI)
- In-flight Compression/ Encryption
- Access Gateway
- Dynamic and System Monitoring Capabilities for High Reliability
- Virtual Fabrics

Cabinet Support

HPE (22U, 36U, and 42U) 10000 G2 Series, the Intelligent Series racks, and HPE (14U, 22U, 36U, 42U, and 47U) 11000 G2 Series racks.

Notes: To order factory integration, add #0D1 after the part number on your sales order.

Hardware and Software Features on Standard Models

Frame Filtering

An ASIC based capability that enables new applications and features. The switch has the ability to "view" the first 64 bytes of the Fibre Channel frame. At this time, Frame Filtering enables advanced capabilities such as Advanced Zoning.

Standard Features

Advanced Zoning

WWN Zoning and Access Control are enforced by hardware that provides the same simple administration previously enforced only with software. Administrators can organize a physical fabric into logical groups and prevent unauthorized access by devices outside the Zone.

Web Tools

Web Tools is an intuitive and easy-to-use graphical interface that enables organizations to monitor and manage SAN fabrics. Tasks can be performed through a Java-capable Web browser from a standard laptop, desktop PC or workstation from any location within the enterprise.

In-flight Encryption

In-flight encryption and advanced cryptographic algorithms provides security for frames while they are in flight between two switches. This allows frames to be encrypted at the egress point of an ISL between two B-series switches, and then to be decrypted at the ingress point of the ISL. This can be enabled (FOS 8.2.0 and above) for both E_Ports and EX_Ports on a per-port basis and no additional license is required.

In-flight Compression

In-flight compression optimizes network performance within the data center and over long-distance links. Data is compressed at the source and uncompressed at the destination. Performance varies by data type, but generally achieve 2:1 compression with minimal impact on performance.

Congestion Notification

Fabric Congestion Notification is a built-in feature that detects congestion, link integrity and delivery issues with automatic notification to end devices. Fabric OS or the end device may then mitigate and recover from the condition without user interaction providing the self-healing benefits of the autonomous SAN.

Adaptive Networking

Adaptive Networking (AN) is a family of technologies which allow flexible control of traffic movement within the fabric which deliver application aware management of fabric resources. Applications may be used with multiple protocols and multiple classes of service. It includes the following features:

- Ingress Rate Limiting:
  - Allows the ingress bandwidth of a port to be throttled to a rate lower than negotiated with the SAN node. This could be very useful for enterprises offering stepped levels of service and enforcing SLAs.
- Quality of Service (QoS):
  - Enables zones with high, medium, and low priorities within a fabric on a zone by zone basis. This can be very useful for prioritizing array replication over MANs and WANs over less critical traffic.
- Traffic Isolation Zones:
  - Defines paths through a fabric for some or all nodes. Failover allows a non-preferred path to be used if the preferred fails. TIZs use failover by default but it can be disabled if traffic should stop if a preferred path fails. TIZ can be used to manually map out traffic flows within a fabric based on application, priority, and topology.

Standard Features

SAN Fabric Intelligence (SAN FI)

With SAN FI administrators can eliminate time consuming, manual correlation of all application resources. This advanced feature combines monitoring, troubleshooting, and cross-correlation of servers, storage, virtual machines (VMs), and fabric connections to provide a comprehensive view of the fabric. Utilizing SAN FI provides administrators with complete, end-to-end visibility for all connected devices and components within your SAN fabric and the ability to drill down into points of interest to accelerate troubleshooting and drive smarter management decisions. This automation helps alleviate the chronic understaffing of IT infrastructure teams, providing a significantly faster response time than a human could achieve.

Software Components

SN6800B 128 Gbps Switch

The HPE Storage Fibre Channel Switch B-series SN6800B offerings include the following software features**:**

- Fabric Vision and IO Insight
- Extended Fabric
- ISL Trunking
- Integrated Routing
- Ficon CUP ISL Trunking

Fabric Vision and IO Insight

Fabric Vision technology provides a breakthrough hardware and software solution that helps simplify monitoring, maximize network availability, and dramatically reduce costs. Featuring innovative monitoring, management, and diagnostic capabilities, Fabric Vision technology enables administrators to avoid problems before they impact operations, helping their organizations meet SLAs. It Includes

- IO Insight: Proactively and non-intrusively monitors storage device IO performance and behavior through integrated network sensors at the storage tier, providing deep insight into problems and ensuring service levels
- Monitoring and Alerting Policy Suite (MAPS): A policy-based monitoring tool with pre-built rules and automation that simplifies fabric-wide threshold configuration and monitoring. Configuration and Operational Monitoring Policy Automation Services Suite (COMPASS): Simplifies deployment, safeguards consistency, and increases operational efficiencies of larger environments with automated switch and fabric configuration services. Administrators can configure a template or adopt an existing configuration to seamlessly deploy a configuration across the fabric.
- ClearLink Diagnostics: Ensures optical and signal integrity for Fibre Channel optics and cables, simplifying deployment and support of high-performance fabrics. ClearLink Diagnostic Port (D_Port) is an advanced capability of Fibre Channel platforms
- Flow Vision: A comprehensive tool that enables administrators to identify, monitor, and analyze specific application data flows in order to simplify troubleshooting, maximize performance and avoid congestion without using taps to ensure optimized performance
- Health and performance dashboard: A single customizable screen displayed in HPE SANnav Management Portal that contains all critical SAN information for convenient review and analysis

Standard Features

Extended Fabric
Extends all of the scalability, reliability, and performance benefits of Fibre Channel Storage Area Networks (SANs) beyond the native 10 km distance specified by the Fibre Channel standard.

ISL Trunking
For high performance enhanced Trunking, this logically groups up to eight 32 Gbps ports per ISL trunk or up to two 128 Gbps QSFP ports per ISL trunk to provide a high bandwidth trunk between two switches. Each 32Gb switch needs its own license. The switch operating system views the trunk as a single, high bandwidth resource (up to 256Gb) when routing connections between 32Gb switches. Connections are load-balanced across the individual links, which comprise the logical trunk group.

Integrated Routing
Integrated Routing is an included license which provides native Fibre Channel Routing (FCR) on a per-port basis, rather than limiting routing ports to those on a dedicated routing switch or blade. Integrated Routing uses EX_Ports to import/export devices between fabrics, enabling selective device sharing while maintaining remote fabric isolation. Integrated Routing provides architecture flexibility to route on a port-by-port basis, enabling increased scalability and fault isolation.

FICON Support
FICON CUP is an included license which enables host control of switches in mainframe environments. FICON Accelerator is an optional software license that increases the speed of FICON disk and tape read and writes, while maintaining the integrity of command and acknowledgement sequences.

HPE SANnav Management Software

HPE SANnav Management Software is the next-generation SAN management application suite for HPE B-series SAN environments. It consists of SANnav Management Portal Software and SANnav Global View Software:

- SANnav Management Portal is a next-generation SAN management application with a simple browser-based user interface (UI) streamlining common workflows, such as configuration, zoning, deployment, troubleshooting, and reporting.
- SANnav Global View helps administrators visualize the health, performance and inventory of multiple SANnav Management Portal instances at data centers across the globe or a single multi-tenant data center using a simple, intelligent dashboard.
- SANnav Management Portal and SANnav Global View not only transform SAN telemetry data into useful insights, such as health and performance scores, but also enable administrators to quickly associate real-time data with historical metrics and logs for in-depth analysis. This can help with spotting trends, establishing baselines, and identifying any behavioral changes over time.

HPE SANnav Management Software is available as a term-license for 1-year, 3-year and 5-year periods as electronic License-to-Use (LTU). It supports 8 Gbps, 16 Gbps, 32 Gbps, 64Gb and 128Gb FC Switches and Directors.

Service and Support

For the most up-to-date information on HPE Services, please refer to the HPE Services – Supplemental QuickSpecs, which provides a comprehensive and regularly updated overview of available services.

Configuration Information

Step 1 – Base Configuration (Select one)

Description	SKU
HPE Storage 128Gb 56/24 24-port 64Gb Short Wave SFP56 Non Port Side Int FC Switch B-series SN6800B	S7U32A
Notes: 128 Gbps 56-port FC Switch with 24 active ports, 64Gb optics; accessory kit (Rackmount kit, enterprise safety and regulatory information), serial cable, and the following software: Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing and FICON CUP. Power cords are sold separately and can be configured through OCA.	
HPE Storage 128Gb 56/24 24-port 64Gb Short Wave SFP56 Non Port Side Exh FC Switch B-series SN6800B	S7U33A
Notes: 128 Gbps 56-port FC Switch with 24 active ports, 64Gbp optics; accessory kit (Rackmount kit, enterprise safety and regulatory information), serial cable, and the following software: Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing and FICON CUP. In prior generations, “Non Port Side Exhaust” was referred to as “Port Side Intake.” Power cords are sold seperately and can be configured through OCA	
HPE Storage 128Gb 56/24 24-port 128Gb Short Wave SFP112 Non Port Side Int FC Switch B-series SN6800B	S7U34A
Notes: 128 Gbps 56-port FC Switch with 24 active ports, 128Gb optics; accessory kit (Rackmount kit, enterprise safety and regulatory information), serial cable, and the following software: Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing and FICON CUP. Power cords are sold seperatly and can be configured through OCA	
HPE Storage 128Gb 56/24 24-port 128Gb Short Wave SFP112 Non Port Side Exh FC Switch B-series SN6800B	S7U35A
Notes: 128 Gbps 56-port FC Switch with 24 active ports, 128Gb optics; accessory kit (Rackmount kit, enterprise safety and regulatory information), serial cable, and the following software: Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing and FICON CUP. In prior generations, “Non Port Side Exhaust” was referred to as “Port Side Intake.” Power cords are sold seperatly and can be configured through OCA	

Step 2 – Options

Ports on Demand (PoD) Kits

Description	SKU
HPE Storage 64Gb 8-port Short Wave SFP56 Fibre Channel Upgrade SN6800B License with Transceiver Kit	S7U24A
HPE Storage 128Gb 8-port SW SFP112 Fibre Channel Upgrade SN6800B License with Transceiver Kit	S7U25A

Notes: The above PoD Kits are available as a physical upgrade package only, these are not available as an e-license because they include the optics. PoD Kits include Secure optics.

Configuration Information

Fibre Channel Transceivers - Secure

Description	SKU
HPE B-series 64Gb SFP56 Short Wave 1-pack Secure Transceiver	R7M15A
HPE B-series 64Gb SFP56 Short Wave 8-pack Secure Transceiver	R7M16A
HPE B-series 64Gb SFP56 Long Wave 10km 1-pack Secure Transceiver	R9S29A
HPE B-series 64Gb SFP56 Long Wave 10km 8-pack Secure Transceiver	R9S30A
HPE B-series 64Gb SFP56 Extended Long Wave 25km 1-pack Secure Transceiver	R9S28A
HPE Storage B-series 128Gb SFP112 Short Wave 1-pack Secure Transceiver	S7U46A
HPE Storage B-series 128Gb SFP112 Short Wave 8-pack Secure Transceiver	S7U47A

Optical Cables

Performance

Distance - Maximum	HPE Standard OM3 Cable	HPE PremierFlex OM3+ Cable	HPE PremierFlex OM4 Cable
128 Gb performance	70 meters	70 meters	100 meters
64 Gb performance	70 meters	70 meters	100 meters
32 Gb performance:	70 meters	70 meters	100 meters
16 Gb performance:	100 meters	100 meters	125 meters

HPE PremierFlex OM4 Fiber Optic Cables

Description	SKU
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 50m Cable	QK737A

HPE OM3 LC-LC Optical Cables

Description	SKU
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A

Configuration Information

Description	SKU
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A

Step 3 – Optional Software

Notes: For Fabric OS (FOS 10.x.x) minimum requirements, please refer to: https://h20272.www2.hpe.com/spock/

SANnav Software Licenses

Notes:

- For users purchasing SANnav licenses for the first time, one of the following SKUs should be purchased.
- For users wanted to renew a SANnav license, a renewal license should be selected from the SANnav Renewal Software License in the next section.

Description	SKU
HPE SANnav Management Portal Base 1yr E-LTU	R3P45AAE
HPE SANnav Management Portal Enterprise 1yr E-LTU	R3P46AAE
HPE SANnav Global View 1yr E-LTU	R3P47AAE
HPE SANnav Management Portal Base 3yr E-LTU	R3P48AAE
HPE SANnav Management Portal Enterprise 3yr E-LTU	R3P49AAE
HPE SANnav Global View 3yr E-LTU	R3P50AAE
HPE SANnav Management Portal Base 5yr E-LTU	R4P29AAE
HPE SANnav Management Portal Enterprise 5yr E-LTU	R4P30AAE
HPE SANnav Global View 5yr E-LTU	R4P31AAE

Notes:

- The Base edition of HPE SANnav Management Portal does not support management of director class switches.
- HPE SANnav Management Software License-to-Use (LTU/E-LTU) includes maintenance and support for the duration of the license. At the end of the license period, customers have the option to renew the license, maintaining the same license key, by selecting from the SANnav Renewal Software License section below Software renewal via HPE Services is not allowed/supported.
- Trial Licenses are no longer supported.

SANnav Renewal Software Licenses

Notes:

- For users who currently have a SANnav license and want to renew their software license, one of the following licenses should be selected.
- The SANnav license must align with the current type of software license i.e. in order to renew a Base license, the Base renewal licenses will need to be selected.

Configuration Information

Description	SKU
HPE SANnav Management Portal Base 1-year Renewal E-LTU	S1S52AAE
HPE SANnav Management Portal Enterprise 1-year Renewal E-LTU	S1S55AAE
HPE SANnav Global View 1-year Renewal E-LTU	S1S58AAE

Notes:

- The Base edition of HPE SANnav Management Portal does not support management of director class switches.
- HPE SANnav Management Software License-to-Use (LTU/E-LTU) includes maintenance and support for the duration of the license.
- Trial Licenses are no longer supported.

Family Information

Features	SN8700B 8-Slot SAN Director Power Pack+	SN8800B 8-Slot SAN Director
Targeted Environment	Cloud Optimized Data Centers	Cloud Data Centers
Port Bandwidth	Up to 64 Gbps	Up to 128Gb
Aggregate device bandwidth	31 Tbps	62 Tbps
OS Support	**Notes:** Please Refer to SPOCK: https://h20272.www2.hpe.com/spock/	
Storage system support	HPE Alletra, Primera, XP, MSA	
Ports	512 ports - 384 device ports with a 64Gbps data rate plus 32 4 x 50 Gb ICLs or 640 ports - 512 device ports with a 32 Gbps data rate plus 32 4 x 50 Gb ICLs	384 device ports with a 128G data rate plus 16 Ultra Scale ICL ports with 8 x Gen 8
SFP	B-series Secure	B-series Secure
Advanced Trunking	Included with Power Pack	Included
Adaptive Networking	Yes (included)	Included
Form factor	14U	14U
Zoning Software	Yes (included)	Included
Hot plug, redundant power supplies	Yes	Yes
Hot plug fans	Yes	Yes

Technical Specifications

Features	SN8700B 4-Slot SAN Director Power Pack+	SN8800B 4-Slot SAN Director
Targeted Environment	Cloud Optimized Data Centers	Cloud Optimized Data Center
Port Bandwidth	Up to 64Gbps	Up to 128Gbps
Aggregate device bandwidth	15.5 Tbps	31 Tbps
OS Support	**Notes:** Please Refer to SPOCK: https://h20272.www2.hpe.com/spock/	
Storage system support	HPE Alletra, Primera, XP, MSA	
Ports	256 ports - 192 device ports with a 64 Gbps data rate plus 16 4 x 50 Gb ICLs or 320 ports - 256 device ports with a 32 Gbps data rate plus 16 4 x 50 Gb ICLs	192 device ports with a 128G data rate plus 8 Ultra Scale ICL ports with 8 x Gen 8
SFP	B-series Secure	B-series Secure
Advanced Trunking	Included with Power Pack	Included
Adaptive Networking	Yes (included)	Included
Form factor	9U	9U
Zoning Software	Yes (included)	Yes (included)
Hot plug, redundant power supplies	Yes	Yes
Hot plug fans	Yes	Yes

Technical Specifications

Features	SN6650B 32Gb FC Switch and SN6650B 32Gb FC PP+ Switch	SN6750B FC Switch
Targeted Environment	Workgroups, Departments	Workgroups, Departments
Fibre Channel Port Bandwidth	32Gb	64Gbps
Ethernet	NA	NA
Aggregate device bandwidth	4Tbps	8.2Tbps
OS Support	**Notes:** Please Refer to SPOCK: https://www.hpe.com/storage/spock	
Storage system support	HPE Alletra, Primera, XP, MSA	
FC Ports	48 or 96 Enabled 128 Max utilizing QSFP ports	48 or 96 Enabled 128 Max utilizing DD ports
SFP	B-series	B-series
Advanced Trunking	Included with Power Pack+	Included
Adaptive Networking	Included	Included
Form factor	2U	2U
Zoning Software	Yes (Included)	Yes (Included)
Hot plug, redundant power supplies	Yes	Yes
Hot plug fans	Yes	Yes

Technical Specifications

Features	SN6700B 64Gb with 24 32Gb Integrated Secure SFP28	SN6800B 128Gb with 24 128Gb or 63=4Gb Intg. Secure Optics
Targeted Environment	Workgroups, Departments	Workgroup, Departments
Fibre Channel Port Bandwidth	64Gb	128Gb
Aggregate device bandwidth	3.5 Tbps	7.168 Tbps
OS Support	**Notes:** Please Refer to SPOCK: https://h20272.www2.hpe.com/spock/	
Storage system support	HPE Alletra, Primera, XP, MSA	
FC Ports	24 Enabled 56 Max	24 Enabled 56 Max
SFP	B-series Secure 32Gb or 64Gb	B-series Secure 64Gb or 128Gb
Advanced Trunking	Included in Power Pack+ on all switches	Included
Adaptive Networking	Included	Included
Form factor	1U	1U
Zoning Software	Included	Included
Hot plug, redundant power supplies	Yes	Yes
Hot plug fans	Yes (integrated with power supply)	Yes (integrated with power supply)

Technical Specifications

Features	SN3600B 32Gb FC Switch and SN3600B 32Gb FC Power Pack+	SN3700B 64Gb FC Switch
Targeted Environment	Workgroups, Departments	Workgroups, Departments
Fibre Channel Port Bandwidth	32Gbps	64Gb
Aggregate device bandwidth	768 Gbps	1.536Tbps
OS Support	**Notes:** Please Refer to SPOCK**:** https://h20272.www2.hpe.com/spock/	
Storage system support	HPE Alletra, Primera, XP, MSA	
FC Ports	8 or 24 Enabled 24 Max	8 Enabled 24 Max
SFP	B-series	B-series
Advanced Trunking	Included with Power Pack+ or Optional Upgrade	Included
Adaptive Networking	Included	Included
Form factor	1U	1U
Zoning Software	Yes (Included)	Yes (Included)
Hot plug, redundant power supplies	One integrated PS	One integrated PS
Hot plug fans	Four integrated fans	Four integrated fans

Technical Specifications

Features	SN2600B SAN Extension Switch	SN4700B SAN Extension Switch
Targeted Environment	Data Centers	Data Centers
Fibre Channel Port Bandwidth	32Gbps	64Gbps
Ethernet	1/10Gbps Ethernet	1/10/25/100Gbps Ethernet
OS Support	**Notes:** Please Refer to SPOCK: https://h20272.www2.hpe.com/spock/	
Storage system support	HPE Alletra, Primera, XP, MSA	
FC Ports	4 or 12 Enabled 12 Max	24 Enabled 24 Max
Ethernet Ports	2 or 6 Enabled 6 Max	16 1/10/25Gbps Enabled 16 Max 2 100Gbps Enabled 2 Max
SFP	B-series	B-series
Advanced Trunking	Included with Optional Upgrade Kit	Included
Adaptive Networking	Included	Included
Form factor	1U	1U
Zoning	Included Yes (Included)	Included
Hot plug, redundant power supplies	Yes	Yes
Hot plug fans	Yes	Yes

Technical Specifications

System Architecture

Fibre Channel ports	**Switch mode (default):** Minimum of 24 ports and maximum of 56 ports configuration. Port numbers above minimum are enabled through 8-port increments via Ports on Demand (PoD) Kits (which include PoD licenses and 8 transceivers). Universal ports self-configure as E_Ports, F_Ports, N_Ports, or D_Ports. Ex. Ports can be activated on a per-port basis with the included Integrated Routing license. Access Gateway default port mapping: 56 F_Ports, 8 N_Ports
Scalability	Full fabric architecture with a maximum of 239 switches: https://support.hpe.com/hpsc/doc/public/display?docId=c00403562
Certified maximum	4,000 active nodes; 56 switches, 19 hops in FOS fabrics; larger fabrics certified as required Refer to SAN Design Guide for current configuration information: https://support.hpe.com/hpsc/doc/public/display?docId=c00403562
Interoperability	– SN2600B SAN Extension Switch – SN4700B SAN Extension Switch – SN8600B 8-Slot SAN Director Power Pack+ – SN8700B 8-Slot SAN Director Power Pack+ – SN8800B 8-Slot SAN Director – SN8600B 4-Slot SAN Director Power Pack+ – SN8700B 4-Slot SAN Director Power Pack+ – SN8800B 4-Slot SAN Director – SN6650B Fibre Channel Switch – SN6750B Fibre Channel Switch – SN6600B Fibre Channel Switch – SN6700B Fibre Channel Switch – SN3600B Fibre Channel Switch – SN3700B Fibre Channel Switch – Brocade 32Gb Fibre Channel SAN Switch Module for HPE Synergy – Brocade 64Gb Fibre Channel SAN Switch Module for HPE Synergy
Performance	Fibre Channel: 112.2Gb/s line speed, full duplex; 57.8Gb/s line speed, full duplex; 28.05Gb/s line speed, full duplex; 14.025Gb/s line speed, full duplex; autosensing of 128, 64, 32, and 16G port speeds depending on SFPs used
ISL Trunking	Frame-based trunking with up to eight SFP+ ports per ISL trunk; up to 1024Gb/s per ISL trunk Exchange-based load balancing across ISLs with Dynamic Path Selection (DPS) included in Fabric OS
Aggregate bandwidth	7.168 Tbps
Maximum Fabric latency	Latency for locally switched ports is 580 ns at 128G with dual forward error correction (FEC)
Maximum frame size	2112-byte payload
Frame buffers	40K
Classes of service	Class 2, Class 3, Class F (Inter-switch frames)

Technical Specifications

Port types	D_Port (ClearLink® diagnostic port), E_Port, EX_Port, F_Port, M_Port; optional port-type control Access Gateway mode: F_Port and NPIV-enabled N_Port
Data traffic types	Fabric switches supporting unicast
Media types	Hot-pluggable, Small Form Factor Pluggable (SFP), LC connector; Short-Wave Laser (SWL), Long-Wave Laser (LWL); Extended Long-Wave (ELWL), distance depends on fiber-optic cable and port speed. Supports 128Gb, 64 Gb, 32 Gb optical transceivers.
USB	One standard USB port for firmware download, SupportSave, and configuration upload or download
Fabric services	BB Credit Recovery; Advanced Zoning (Default Zoning, Port/WWN Zoning, Peer Zoning); Congestion Signaling; Dynamic Path Selection (DPS); Extended Fabrics; Fabric Performance Impact Notification (FPIN); Fabric Vision; FDMI; FICON CUP; Flow Vision; F_Port Trunking; FSPF; Integrated Routing; ISL Trunking; Management Server; Name Server; NPIV; NTP v3; Port Decommission/Fencing; QoS; Registered State Change Notification (RSCN); SAN Fabric Intelligence (SAN FI); Slow Drain Device Quarantine (SDDQ); Target-Driven Zoning; Adaptive Traffic Optimizer; Virtual Fabrics (Logical Switch, Logical Fabric); VMID+ and AppServer Note: Some fabric services do not apply or are unavailable in Access Gateway mode
Long Distance	Fibre Channel, in-flight compression (LZO) and encryption (AES-GCM-256 encryption on FC ISLs [E_Port]); support for DWDM MAN connectivity
Options	SFP media, USB Device
Management	
Management software supported	Advanced Web Tools; SANnav Management Portal and SANnav Global View; command-line interface (CLI); HTTP/HTTPS; RESTful API; SNMP v1/v3 (FE MIB, FC Management MIB); SSH
Security	AES-GCM-256 encryption on FC ISLs (E_Port); Device Connection Control (DCC); DH-CHAP (between switches and end devices); Federated Authentication; FCAP switch authentication; HTTPS; IP filtering; OpenLDAP; port binding; principle of least privilege architecture; user-defined role-based access control (RBAC); Secure Boot; Secure Copy (SCP); Secure Syslog; SFTP; SSH v2; SSL; Switch Binding; TLS1.3; PQC algorithms; Trusted FOS Certificates (TruFOS); USGv6 compliant
Management access	1000Mb/s Ethernet (RJ-45) port and serial console port (mini-USB with thumb screws, plus a mini-USB to RJ-45 adapter for regular RJ-45 console port access)
Diagnostics	Active Support Connectivity (ASC) and Brocade Support Link (BSL); built-in flow generator; ClearLink optics and cable diagnostics, including link traffic/latency/distance; Fabric Performance Impact Monitoring (FPI); flow mirroring; dual forward error correction (FEC); frame viewer; IO Insight for SCSI and NVMe monitoring; Monitoring and Alerting Policy Suite (MAPS); nondisruptive daemon restart; optics health monitoring; POST and embedded online/offline diagnostics, including environmental monitoring, FCping, and Pathinfo (FC traceroute); power monitoring; RAStrace logging; Rolling Reboot Detection (RRD); SAN Fabric Intelligence (SAN FI); Syslog/Audit Log; VM Insight
Mechanicals	
Enclosure	Front-to-back airflow; nonport-side exhaust; power from back, 1U Back-to-front airflow; nonport-side intake; power from back, 1U
Size	Width: 44.00 cm (17.32 in.) Height: 4.37 cm (1.72 in.) Depth: 39.68 cm (15.62 in.)

Technical Specifications

System Weight	8.39 kg (18.5 lb) with two power supplies, fans, without transceivers 9.48 kg (20.9 lb) with two power supplies, fans, fully populated with transceivers
Environment	
Operating environment	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 85% (non-condensing)
Non-operating	Temperature: -25° to 70°C (-13° to 158°F) Humidity: 10% to 90% (non-condensing)
Operating Altitude	Up to 3,000 m (9,842 ft)
Storage altitude	Up to 12 km (39,370 ft)
Shock	Operating: Up to 20 G, 6 ms half-sine Non-operating: Half-sine, 33 G 11 ms, 3/eg axis
Vibration	Operating: 1.0 Grms sine, 0.40 Grms random, 5.9 Hz to 500 Hz Non-operating: 2.4 Grms sine, 1.12 Grms random, 5.9 HZ to 500 Hz
Heat dissipation	Typical: 56 ports at 1146.79 Btu/hr Maximum: 56 ports at 1638.28 Btu/hr
Power	
Power Supply	Dual, hot-swappable, redundant power supplies with integrated system cooling fans 80 Plus Platinum Power cords are sold separately and can be configured through OCA.
AC input	90V to 264V, maximum input current 9.7A
AC Input line frequency	50 Hz to 60 Hz nominal, 47 Hz to 63 Hz range
AC Power Consumption	Measured based on 240V input and 128G SWL SFP+ optics Idle power draw: 146W for an empty chassis with no transceivers Typical power draw: • 262W with 28 128G SWL optics modules under 50% traffic rate, low fan speed, ambient temperature 25°C • 336W with 56 128G SWL optics modules under 50% traffic rate, low fan speed, ambient temperature 25°C Maximum power draw: 478W with 56 128G SWL optics modules under 100% traffic rate, max. fan speed, ambient temperature 40°C

Summary of Changes

Date	Version History	Action	Description of Change
15-Jun-2026	Version 2	Changed	Standard Features section was updated. Main changes: Enhanced the Security section with new capabilities, including: – Post-Quantum Cryptography (PQC) – Quantum-Resistant Encryption – Principle of Least Privilege Architecture – Integrity Validation and Anti-Tampering mechanisms Expanded AI-driven SAN and automation content, including additional detail on: – Self-optimizing capabilities – Real-time monitoring and analytics – Adaptive Traffic Optimizer – SAN Fabric Intelligence (SAN FI)
01-Jun-2026	Version 1	New	New QuickSpecs

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