Overview

Shape the Future of QuickSpecs – Your Input Matters

HPE Storage Fibre Channel Switch B-series SN3700B

In today's data-driven world, where both the value and protection of data are paramount, IT organizations face increasing pressure to ensure their systems are secure, reliable, and efficient. The challenge lies not only in securing continuous, non-stop access to data but also in optimizing critical applications and resources to improve productivity. To address these demands, a simple and always-on infrastructure is essential—one that supports high throughput and low-latency requirements for critical applications. HPE B-series 64Gb Gen7 Fibre Channel is key to helping organizations meet these challenges. By integrating this robust, high-performance network into their storage ecosystem, small and mid-sized businesses can effectively handle large volumes of data with minimal overhead. This enables faster decision making, improved operational efficiency, and a competitive edge, all without the complexity or cost typically associated with large enterprise-level solutions.

Faced with explosive data growth, the all-flash data centers need more IO capacity to accommodate the massive amounts of data, applications, and workloads. At the same time the collective expectations for availability continue to rise, users expect applications to be available and accessible from anywhere, at any time, on any device.

To meet these dynamic and growing business demands, organizations need to deploy and scale up applications quickly. As a result, many are moving to higher Virtual Machine (VM) densities to enable rapid deployment of new applications and deploying all-flash storage to help those applications that demand more performance and reduced latency, scaling to support thousands of users. To increase agility, reduce expenses, and realize the full benefits of these architectures, organizations need the storage network to deliver the performance required by today's server and all-flash storage environments. In addition, storage networks are becoming increasingly important to application performance, which means that they also must become easier to administer and manage. By treating the network as a strategic part of a highly virtualized environment, organizations can increase optimization and efficiency even as they rapidly scale their environments.

The HPE Storage Fibre Channel Switch B-series SN3700B meets the demands of hyper-scale virtualization, larger cloud infrastructures, and growing all-flash-based storage environments by delivering market-leading 64Gb Fibre Channel technology and capabilities. It provides a high-density building block for increased scalability, designed to support growth, demanding workloads, and data center consolidation in small to mid-sized enterprise infrastructures. It is built for maximum affordability and flexibility, performance, and ease of use.

The HPE Storage Fibre Channel Switch B-series SN3700B is an affordable entry-level 8-24-port 64Gb Fibre Channel switch that doesn't compromise on 64Gb functionality offering 24 x 64 Gigabyte per second (Gbps) SFP+ ports in a 1U form-factor. You can start small with as little as 8-ports and select 32Gb FC or 64Gb FC optics to meet your budget requirements. And for low-cost deployments, it is available preconfigured with 8 Short Wave 32Gb SFP+ for customers transitioning to next gen IT technology. Each of the twenty-four (24) SFP+ ports support 8, 16, 32 and 64 Gbps Fibre Channel speeds. The HPE Storage Fibre Channel Switch B-series SN3700B is designed to support the SAN requirements of a small to medium-sized workgroup as well as customers who demand enterprise SAN switch capabilities. With industry leading highest FC port density in a slim 1U height, the HPE Storage Fibre Channel Switch B-series SN3700B enables the creation of very dense fabrics in a relatively small space for tighter budgets.

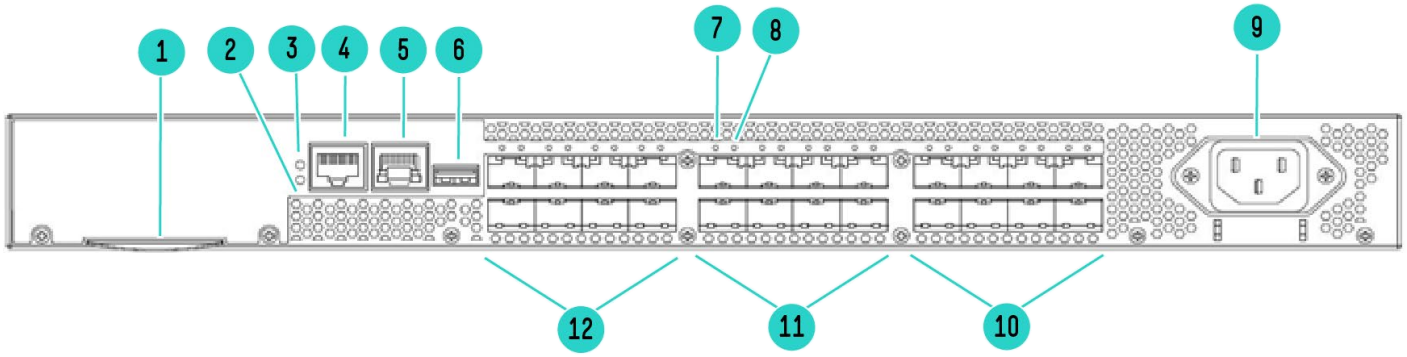
With its flexible Ports on Demand (PoD) capability, the HPE Storage Fibre Channel Switch B-series SN3700B provides excellent overall value as the foundation of a SAN with the ability to grow with an organization's SAN needs. Even as an entry-level switch, the HPE Storage Fibre Channel Switch B-series SN3700B delivers operational simplicity as it can be configured in as little as 3-steps. The switch provides excellent SAN management and SAN health tools with HPE PowerPack + Software included in the base models for optimal SAN health, and it supports HPE Smart SAN for Alletra 9000 all–flash fabric deployments (SAN zoning) in just a few click of a mouse all centralized from the array. It also delivers high IOPs, high bandwidth and low-latency with flash-ready performance and always on reliability, while delivering seamless interoperability and ease of use advantages found only in the HPE B-series product family.

Overview

The HPE Storage Fibre Channel Switch B-series SN3700B is available in the following models

- HPE Storage 64Gb 24/8 8-port 32Gb Short Wave SFP28 Switch B-series SN3700B
- HPE Storage 64Gb 24/8 8-port 64Gb Short Wave SFP28 Switch B-series SN3700B

Both offerings include the software features of Power Pack+, the software upgrade option offered in prior generations, this includes the following: Fabric Vision and IO Insight, ISL Trunking, and Extended Fabric. The software provides the SAN administrator with the necessary tools to monitor the health and performance of the network, while also ensuring the highest levels of security, scalability and manageability.



HPE Storage Fibre Channel Switch B-series SN3700B

1.	Switch ID pull-out tab	7.	SFP+ FC port 8 (upper) status LED
2.	System status LED	8.	SFP+ FC port 12 (lower) status LED
3.	System power LED	9.	AC power receptacle
4.	System RS232 console port (RJ-45)	10.	Trunk port group 2 (SFP+ FC ports 16-23)
5.	Ethernet port with two Ethernet status LEDs	11.	Trunk port group 1 (SFP+ FC ports 8-15)
6.	USB port	12.	Trunk port group 0 (SFP+ FC ports 0-7)

Models

HPE Storage Fibre Channel Switch B-series SN3700B 64 Gb FC Switch Models

Description	SKU
HPE Storage 64Gb 24/8 8-port 32Gb Short Wave SFP28 Switch B-series SN3700B	S5A94A
HPE Storage 64Gb 24/8 8-port 64Gb Short Wave SFP56 Switch B-series SN3700B	S5A95A

Notes: Brocade references all optics as SFP+ in the description whereas HPE references the industry standards descriptions for the type of optics. The 32Gb optics are referred to as SFP28 optics and 64Gb optics are referred to as SFP56.

Standard Features

Key Features and Benefits

- Delivers 64 Gb flash ready-performance, affordability, in as little as 8-ports with no compromise in 64Gb functionality, with up to 24 ports in an energy-efficient 1U form factor, providing maximum flexibility for diverse deployment and tighter budgets.
- Industry-leading reliability and quality with an unprecedented lifetime warranty*
- HPE Storage Fibre Channel Switch B-series SN3700B supports 64 Gb SFP56 and the more affordable 32Gb FC SFP+ optics providing flexibility for users to accommodate their budgets and slower FC speeds such as 16Gb FC.
- Investment protection with SAN interoperability as the HPE Storage Fibre Channel Switch B-series SN3700B is capable of supporting 16Gb, 32Gb and 64Gb connectivity.
- Support any combination of Short Wavelength (SWL) or Long Wavelength (LWL) optics
- Features dynamic Ports on Demand (PoD) capabilities for fast, easy, and cost-effective scaling in small 8-port Port on Demand (PoD) increments. PoD Kit upgrades are available in 8-port upgrade kits, including both the license and 8 optics (either 32Gb or 64Gb) under one part number.
- Support high-density server virtualization, cloud architectures and flash-based storage environments.
- Virtual Fabric (VF) support for up to 2 logical switches
- NVMe over Fabric Ready support for SAN infrastructure in all-flash environments that are latency sensitive
- FC port-to-port latency is minimized to 460 nanoseconds through the use of cut-through frame switching at 64 Gbps
- Virtual Machine Identity (VMID) support via VM Insight – provides granular visibility of virtualized applications which allows storage admins to obtain granular performance stats which helps them troubleshoot and classify VM IO flows to the fabric for better performance outcomes. Support for HPE Smart SAN for Alletra 9000 –Automated SAN orchestration for Alletra 9000 all-flash Fibre Channel SAN deployments, simplifying traditional SAN zoning from hours to minutes.
- Provides up to 24 non-blocking Fibre Channel ports that may be used to connect to external N_ports (as an F_port) or to other Fibre Channel switches (as an E_port or Ex_port). Each port can operate at 8 Gbps, 10 Gbps, 16 Gbps, 32 Gbps or 64 Gbps link speed
- Extensive software feature-set enabled by the Fabric Operating System (FOS) such as Zoning with hardware level enforcement, NPIV, Virtual Fabrics (VF), Extended Fabrics (Long Distance ISLs), Trunking (ISL Trunking), Dynamic Path Selection (DPS), , QoS, Fabric Vision, MAPS, Flow Vision, IO Insight and ClearLink Diagnostics (D_port), Brocade Advanced WebTools, and much more. These features and capabilities deliver ease of management, high performance and scalability, high reliability, availability and serviceability
- Traffic Optimizer on Gen7 platforms optimizes SAN traffic by segregating traffic flows with different characteristics.
- Management through Brocade SANnav Management Portal, FOS CLI and WebTools
- Inter-Switch Link (ISL) Trunking allows up to eight ports between a pair of switches to be combined to form a single logical ISL with a speed of up to 512 Gbps for optimal bandwidth utilization, high availability and load balancing.
- Real time power monitoring enables users to monitor the power usage of the switch in real time.
- Supports only Back-to-front (non port-side intake) airflow.
- Open systems support only (no FICON support)

HPE Storage Fibre Channel Switch B-series SN3700B 64 Gb FC Switch

- Delivers 8, 16 and 24-ports in a 1U enclosure.
- Provides 8 Gbps, 16 Gbps, 32 Gbps and 64Gb* performance
  - 64Gb/s optical transceiver can autonegotiate to 64Gb/s, 32Gb/s, or 16Gb/s
  - 32Gb/s optical transceiver can autonegotiate to 32Gb/s, 16Gb/s, or 8Gb/s
- Employs optional Inter-Switch Link (ISL) Trunking to provide a high-speed data path between switches which enables a high speed data path between 64 Gbps switches up to 512 Gbps.

Notes: *64 Gbps performance can be obtained between two 64 Gbps capable devices.

Standard Features

Configuration Support

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

High-availability features

- Integrated single power supply and 4 built-in cooling fans (Minimum 3 fans required for the switch to continue functioning properly).
- Achieve continuous uptime with the industry's lowest failure rate and high availability.
- Monitor proactively the overall health of your storage network and VM performance.
- 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.
- 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.

Software Components, Standard, Base Models

HPE Storage Fibre Channel Switch B-series SN3700B

Both of the HPE Storage Fibre Channel Switch B-series SN3700B offerings include the software features traditionally associated with the Power Pack+ Software Bundle. This includes the following:

- Fabric Vision
- Extended Fabric
- 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:

- 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.

Standard Features

- 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 Management Portal that contains all critical SAN information for convenient review and analysis.
- 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

Extended Fabric

Optional license which 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, a logical groups up to eight 64 Gbps SFP+ ports per ISL trunk provides a high bandwidth trunk between two switches. The switch operating system views the trunk as a single, high bandwidth resource (up to 512 Gbps) when routing connections between 64 Gb switches. Connections are load-balanced across the individual links, which comprise the logical trunk group.

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.

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.

Congestion Notification: Introduced in Fabric OS v9.0 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.

Traffic Optimizer: Fabric OS supports Traffic Optimizer on Gen7 platforms that optimizes SAN traffic by segregating traffic flows with different characteristics. Traffic Optimizer automatically groups traffic flows with similar predefined attributes, such as flow destination speed and priority, as a dedicated performance group. Each performance group uses a dedicated resource path within the fabric. By organizing flows by performance group and preventing mixed traffic, Traffic Optimizer prevents slower traffic from obstructing the higher-speed or higher-priority traffic on that path.

Standard Features

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.

Software Components, Optional

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-years and 5-years period as both – physical and electronic License-to-Use (LTU). It supports 8Gb, 16Gb and 32Gb FC Switches and Directors.

HPE Smart SAN for Alletra 9000

HPE Smart SAN for Alletra 9000 software automatically orchestrates SAN fabrics for HPE Alletra 9000 all-flash deployments. The software defined networking solution simplifies fabric deployments and reduces the probability of human errors through Fibre Channel T-11 Standards-based Target Driven Peer Zoning (TDPZ), all from the Alletra 9000 CLI or Alletra 9000 SSMC. It is a distributed application embedded in HPE Alletra 9000 Storage and SAN components (array, hosts and switches) that enables Alletra 9000 arrays to orchestrate host configuration, settings and SAN diagnostics across the SAN. HPE Smart SAN is supported with HPE B-series (32 Gb, 16 Gb and 8 Gb FC Switches), (32 Gb, 16 Gb and 8 Gb FC) HBAs, HPE Networking Comware 5900 Series Switches and Alletra 9000 storage. HPE Smart SAN for Alletra 9000 through its Target and Alletra 9000 Federated Driven Peer Zoning features enables storage administrators to automate switch zoning in a few clicks of a mouse, resulting in the creation of fewer zones and enables configuration of zones in minutes and not in hours. Through automation, it reduces the probability of errors and potential downtime.

Additional information can be found here:
https://www.hpe.com/us/en/product-catalog/storage/storage-software/pip.hpe-smart-san-for-Alletra 9000.8295863.html

Notes:

- Supports B-series 32 Gb, 16 Gb and 8 Gb FC switches with FOS 7.4.0a or later.
- A list of supported HPE (32 Gb, 16 Gb and 8 Gb) FC HBAs can be found at: **https://h20272.www2.hpe.com/spock/**
- Supports Alletra 9000 storage with 3.2.2 or later with only 16 Gb target ports on HPE Alletra 9000 storage.
- For Alletra 9000 SSMC support, you need Alletra 9000 SSMC 3.1 and OS version 3.3.1.

Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

https://www.hpe.com/services

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

https://www.hpe.com/services/consulting

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

HPE Managed Services | HPE

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

https://www.hpe.com/services/operational

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

https://www.hpe.com/services/completecare

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

https://www.hpe.com/services/techcare

Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:
https://www.hpe.com/services/lifecycle

For a list of the most frequently purchased services using service credits, see the **HPE Service Credits Menu**

Other Related Services from HPE Services

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.
https://www.hpe.com/services/training

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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 QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at **https://ssc.hpe.com/portal/site/ssc/**

Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.
https://support.hpe.com/hpesc/public/home/signin

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"
https://www.hpe.com/us/en/contact-hpe.html

For more information
http://www.hpe.com/services

Configuration Information

Step 1 - Base Configuration (Select one)

Description	SKU
HPE Storage 64Gb 24/8 8-port 64Gb Short Wave SFP56 Switch B-series SN3700B	S5A95A

64 Gb 24-port FC Switch with 8 active ports; eight short wave 64Gb SFP56; accessory kit (Rackmount kit with plenum, enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cords, serial cable, and the following software: Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Fabric Vision, ISL Trunking, Extended Fabric

Notes: This product includes lifetime warranty.

HPE Storage 64Gb 24/8 8-port 32Gb Short Wave SFP28 Switch B-series SN3700B	S5A94A

64 Gb 24-port FC Switch with 8 active ports; eight short wave 32Gb SFP28; accessory kit (Rackmount kit with plenum, enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cords, serial cable, and the following software:Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Fabric Vision, ISL Trunking, Extended Fabric

Notes: This product includes lifetime warranty.

Step 2 – Options

Port On Demand (POD) Kits

Description	SKU
HPE Storage 64Gb 8-port Short Wave SFP56 Fibre Channel Upgrade SN3700B License with Transceiver Kit	S5A97A
HPE Storage 32Gb 8-port Short Wave SFP28 Fibre Channel Upgrade SN3700B License with Transceiver Kit	S5A96A

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

Fibre Channel Transceivers

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 32Gb SFP28 Short Wave 1-pack Secure Transceiver	R6B12A
HPE B-series 32Gb SFP28 Short Wave 8-pack Secure Transceiver	R6W26A
HPE B-series 32Gb SFP28 Long Wave 10km 1-pack Secure Transceiver	R6B13A
HPE B-series 32Gb SFP Extended Long Wave 25km 1-pack Secure Transceiver	R7M17A

Distance - Maximum	HPE Standard OM3 Cable	HPE PremierFlexOM3+ Cable	HPE PremierFlex OM4 Cable
64 Gb Performance:	70 meters	70 meters	100 meters
32 GbPerformance:	70 meters	70 meters	100 meters
16 Gb performance:	100 meters	100 meters	125 meters

Configuration Information

Accessories

Description	SKU
HPE B-series 4G USB Drive	N9Y63A

Optical Cables

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

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
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) 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.

Configuration Information

- 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.
- SANnav trail licenses are no longer available

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.

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.

Technical Specifications

Family Information

Features	SN3000B 16 Gbps FC Switch	SN3600B 32 Gbps FC Switch	SN3700B 64 Gbps FC Switch
Targeted Environment	Workgroups, Departments	Workgroups, Departments	Workgroups, Departments
Fibre Channel Port Bandwidth	16 Gbps	32 Gbps	64Gbps
Aggregate device bandwidth	384 – 768 Gbps full duplex	768 Gbps end-to-end full duplex	1.536 Tbps
OS Support	**Notes:** Please Refer to SPOCK**: https://h20272.www2.hpe.com/spock/**		
Storage system support	Primera, Nimble, 3PAR StoreServ, StoreVirtual , P9500/XP7, MSA		
FC Ports	12 or 24 enabled 24 Max	8 or 24 Enabled 24 Max	8 port base, expandable to 24Max with POD Kits
SFP	B-series	B-series	B-series
Advanced Trunking	Included with Power Pack+ Upgrade	Included with Power Pack+ or Optional Upgrade	Included in base offering
Adaptive Networking	Included	Included	Included
Form factor	1U	1U	1U
Zoning Software	Yes (Included)	Yes (Included)	Yes (Included)
Hot plug, redundant power supplies	Optional	No, single, fixed power supply	No, single, fixed power supply
Hot plug fans	Yes (integrated with power supply)	No, four integrated system cooling fans	No, four integrated system cooling fans

Technical Specifications

Features	SN6600B 32Gb FC Switch and SN6600B 32Gb FC Switch	SN6700B 64Gb FC Switch
Targeted Environment	Workgroups, Departments	Workgroups, Departments
Fibre Channel Port Bandwidth	32 Gb	64Gb
Aggregate device bandwidth	2 Tbps	3.5 Tbps
OS Support	**Notes:** Please Refer to SPOCK **https://h20272.www2.hpe.com/spock/**	
Storage system support	Primera, Nimble, 3PAR StoreServ, StoreVirtual, P9500/XP, MSA	
FC Ports	24 or 48 enabled 64 Max	24 Enabled 56 Max
SFP	B-series Optics (16Gbps or 32Gbps)	B-series Secure 24 32Gbps SFP28 or 64Gb SFP56 included
Advanced Trunking	Included with Power Pack+ or Optional Upgrade	Included in Power Pack+ on all switches
Adaptive Networking	Included	Included
Form factor	1U	1U
Zoning Software	Yes (Included)	Yes (Included)
Hot plug, redundant power supplies	Yes	Yes
Hot plug fans	Yes (integrated with power supply)	Yes (integrated with power supply)

Technical Specifications

Features	SN6500B 16Gb FC Switch and SN6500B 16Gb FC Power Pack+	SN6650B 32Gb FC Switch and SN6650B 32Gb FC PP+ Switch	SN6750B FC Switch
Targeted Environment	Workgroups, Departments	Workgroups, Departments	Workgroups, Departments
Fibre Channel Port Bandwidth	16Gbps	32Gb	64Gbps
Ethernet	N/A	NA	NA
Aggregate device bandwidth	768-1536-Gbps	4Tbps	8.2Tbps
OS Support	**Notes:** Please Refer to SPOCK **https://www.hpe.com/storage/spock**		
Storage system support	HPE Primera, 3PAR StoreServ, Nimble, StoreVirtual , P9500/XP7, MSA		
FC Ports	48 or 96 Enabled 96 Max	48 or 96 Enabled 128 Max utilizing QSFP ports	48 or 96 Enabled 128 Max utilizing DD ports
SFP	B-series	B-series	B-series
Advanced Trunking	Included with Power Pack+ or Optional Upgrade	Included with Power Pack+	Included
Adaptive Networking	Included	Included	Included
Form factor	2U	2U	2U
Zoning Software	Yes (Included)	Yes (Included)	Yes (Included)
Hot plug, redundant power supplies	Yes	Yes	Yes
Hot plug fans	Yes	Yes	Yes

Technical Specifications

Features	SN4000B SAN Extension Switch	2600 Extension SAN Switch	SN4700B SAN Extension Switch
Targeted Environment	Data Centers	Data Centers	Data Centers
Fibre Channel Port Bandwidth	16Gbps	32Gbps	64Gbps
Ethernet	1/10/40Gbps 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	Alletra, Primera, Nimble, 3PAR StoreServ, StoreVirtual , P9500/XP, MSA		
FC Ports	24 Enabled 24 Max	4 or 12 Enabled 12 Max	24 Enabled 24 Max
Ethernet Ports	16 ports 1/10GbpsE Enabled 16 Max 2 – 40GbpsE ports	2 or 6 Enabled 6 Max	16 1/10/25Gbps Enabled 16 Max 2 100Gbps Enabled 2 Max
SFP	B-series	B-series	B-series
Advanced Trunking	Included	Included with Optional Upgrade Kit	Included
Adaptive Networking	Included	Included	Included
Form factor	2U	1U	1U
Zoning	Included	Included	Included
Hot plug, redundant power supplies	Yes	Yes	Yes
Hot plug fans	Yes	Yes	Yes

Technical Specifications

Features	SN8600B 4-slot SAN Director Power Pack+	SN8700B 4-Slot SAN Director Power Pack
Targeted Environment	Cloud Optimized Data Centers	Cloud Optimized Data Centers
Port Bandwidth	Up to 32 Gbps	Up to 64Gb
Aggregate device bandwidth	10.24 Tbps	15.5 Tbps
OS Support	**Notes:** Please Refer to SPOCK **https://h20272.www2.hpe.com/spock/**	
Storage system support	Primera, Nimble, 3PAR StoreServ, StoreVirtual P9500/XP, MSA	
Ports	Up to 256 32 Gb ports or a 320-port equivalent with 16 ICL ports.	256 ports - 192 device ports with a 64Gb data rate plus 16 4x50Gb ICLs or 320 ports - 256 device ports with a 32Gb data rate plus 16 4x50Gb ICLs
SFP	B-series	B-series Secure
Advanced Trunking	Included with Power Pack	Included with Power Pack
Adaptive Networking	Included	Yes (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	SN8600B 8-Slot SAN Director Power Pack+	SN8700B 8-Slot SAN Director Power Pack+
Targeted Environment	Cloud Optimized Data Centers	Cloud Optimized Data Centers
Port Bandwidth	Up to 32 Gb	Up to 64Gb
Aggregate device bandwidth	16.2 Tbps	31 Tbps
OS Support	**Notes:** Please Refer to SPOCK **https://h20272.www2.hpe.com/spock/**	
Storage system support	Primera, Nimble, 3PAR StoreServ, StoreVirtual P9500/XP, MSA	
Ports	384 32 Gb ports or a 512-port equivalent with 128 Gb (32 Gb×4 QSFP ports)	512 ports - 384 device ports with a 64Gb data rate plus 32 4x50Gb ICLs or 640 ports - 512 device ports with a 32Gb data rate plus 32 4xGen7 ICLs
SFP	B-series	B-series Secure
Advanced Trunking	Included with Power Pack	Included with Power Pack
Adaptive Networking	Included	Yes (included)
Form factor	14U	14U
Zoning Software	Yes (included)	Yes (included)
Hot plug, redundant power supplies	Yes	Yes
Hot plug fans	Yes	Yes

Technical Specifications

Features	Brocade 32Gb Fibre Channel SAN Switch Module for HPE Synergy
Targeted Environment	Enterprise, Datacenters, Workgroups, Departments
Port Bandwidth	32Gbps
Aggregate device bandwidth	896 Gbps (36 ports x 16 Gbps)
OS Support	**Notes:** Please Refer to SPOCK **https://h20272.www2.hpe.com/spock/**
Storage system Support	HPE Primera, 3PAR StoreServ, Nimble, StoreVirtual , P9500/XP7, MSA
Ports	8 SFP+ external, 2 QSFP external /12 internal
SFP	B-series
Advanced Trunking	Included with Power Pack+ or Optional Upgrade
Adaptive Networking	Included
Form factor	Embedded
Zoning Software	Yes (Included)
Hot plug, redundant power supplies	Yes, in Synergy Frame
Hot plug fans	Yes, in Synergy Frame

Technical Specifications

System Architecture

Fibre Channel ports	Switch mode (default): 8, 16, and 24-port configurations (8-port increment through Ports on Demand [PoD] Kits); E, F, M, D and EX ports. Access Gateway default port mapping: 16 F_Ports, 8 N_Ports
Scalability	Full-fabric architecture with a maximum of 239 switches.
Certified maximum	6000 active nodes; 56 switches, 19 hops in Brocade Fabric OS® fabrics; larger fabrics certified as required
Performance	Fibre Channel: 8.5Gb/s line speed, full duplex; 14.025Gb/s line speed, full duplex; 28.05Gb/s line speed, full duplex; 57.8Gb/s line speed, full duplex; auto-sensing of 8, 16, 32, and 64G port speeds.
ISL trunking	Frame-based trunking with up to eight SFP+ ports per ISL trunk; up to 512Gb/s per ISL trunk. Exchange-based load balancing across ISLs with Dynamic Path Selection (DPS) included in Brocade Fabric OS.
Aggregate bandwidth	1.536Tb/s
Maximum fabric latency	Latency for locally switched ports is 460 ns (including FEC).
Maximum frame size	2,112-byte payload.
Frame buffers	2,000 dynamically allocated.
Classes of service	Class 2, Class 3, Class F (inter-switch frames).
Port types	F_Port, E_Port, M_Port, D_Port (ClearLink Diagnostic Port) on 24 SFP+ ports. Access Gateway mode: F_Port and NPIV-enabled N_Port.
Data traffic types	Fabric switches supporting unicast.
Media types	64 Gbps: HPE Storage SN3700B requires HPE hot-pluggable SFP56, LC connector; 64 Gbps SWL, LWL. 32 Gbps: HPE Storage SN3700B requires HPE hot-pluggable SFP28, LC connector; 32 Gbps SWL, LWL, ELWL. Fibre Channel distance subject to fiber-optic cable and port speed.
USB	One USB port for system log file downloads or firmware upgrades.
Fabric services	Monitoring and Alerting Policy Suite (MAPS); Flow Vision; Adaptive Networking (Ingress Rate Limiting, QoS); Fabric Performance Impact (FPI) monitoring; Slow Drain Device Quarantine (SDDQ); Fabric Performance Impact Notification (FPIN), Traffic Optimizer, Advanced Zoning (default zoning, port/WWN zoning, broadcast zoning, peer zoning, target driven zoning); Dynamic Fabric Provisioning (DFP); Dynamic Path Selection (DPS); Extended Fabrics (Long Distance ISLs); Enhanced BB credit recovery; FDMI; Trunking (ISL Trunking); FSPF; (FCR); Management Server; NPIV; NTP v3; Registered State Change Notification (RSCN); Reliable Commit Service (RCS); Simple Name Server (SNS); Virtual Fabrics (Logical Switch, Logical Fabric); Read Diagnostics Parameter (RDP) **Notes:** Some fabric services do not apply or are unavailable in Access Gateway mode.

Technical Specifications

Management

Supported management software	Advanced Web Tools; Brocade 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	DH-CHAP (between switches and end devices); FCAP switch authentication; HTTPS; IP filtering; LDAP with IPv6; OpenLDAP; Port Binding; RADIUS; TACACS+; user-defined Role-Based Access Control (RBAC); Secure Boot; Secure Copy (SCP); Secure Syslog; SFTP; SSH v2; SSL; Switch Binding; Trusted Switch.
Management access	1000Mb/s Ethernet (RJ-45) port, in-band over Fibre Channel, RJ-45 serial console port, and one USB port.
Diagnostics	Active Support Connectivity (ASC) and Brocade Support Link (BSL); built-in flow generator; ClearLink optics and cable diagnostics, including electrical/optical loopback, link traffic/latency/distance; Fabric Performance Impact Monitoring (FPI); flow mirroring; Forward Error Correction (FEC); frame viewer; IO Insight for SCSI and NVMe monitoring; Monitoring and Alerting Policy Suite (MAPS); non-disruptive 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); Syslog/Audit Log; VM Insight.

Mechanical

Enclosure	Back-to-front airflow (non-port-side intake); power from back, 1U
Size	Width: 42.88 mm (16.88 in.) Height: 4.29 mm (1.69 in.) Depth: 30.66 mm (12.07in.)
System weight	4.24 kg (9.35 lb) with one integrated power supply and fans, without transceivers 4.84 kg (10.67 lb) with one integrated power supply, fans, fully populated with transceivers

Environment

Operating environment	Temperature: 0°C to 40°C/32°F to 104°F. Humidity: 10% to 85% (non-condensing).
Non-operating environment	Temperature: -25°C to 70°C/-13°F 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 10G, 11 ms half-sine Non-operating: Trapezoidal wave, 60G, 18 ms, 3G axis
Vibration	Operating: 1.0g sine, 0.4 grms random, 5 Hz to 500 Hz Non-operating: 2.4g sine, 1.1 grms random, 5 Hz to 500 Hz
Heat dissipation	Typical: 185 BTU/hr Max: 350 BTU/hr

Technical Specifications

Power

Power supply	Base switch includes a single, fixed power supply with four integrated system cooling fans.
AC input	100V to 240V
Maximum input current	2 A
Input line frequency	47 Hz to 63 Hz. (Nominal: 50/60 Hz)
Power consumption	Maximum power draw: • 105W with all 24 ports operating at 64G running 100% traffic rate. (24 ports populated with 64G SWL transceivers) Fans at max speed. • 45W for empty chassis with no optical transceivers. Typical power draw: • 65W with 12 ports operating at 64G running 50% traffic rate. (12 ports populated with 64G SWL transceivers) Fans at nominal speed. • 85W with 24 ports operating at 64G running 50% traffic rate. (24 ports populated with 32G SWL transceivers) Fans at nominal speed.

Summary of Changes

Date	Version History	Action	Description of Change
25-Aug-2025	**Version 2**	Changed	Configuration Information section was updated - Removed IR & SANnav Trial license references
03-Feb-2025	**Version 1**	New	New QuickSpecs

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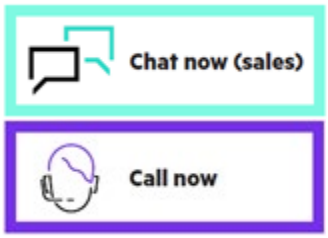

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