



HPE C8R45B

Datasheet



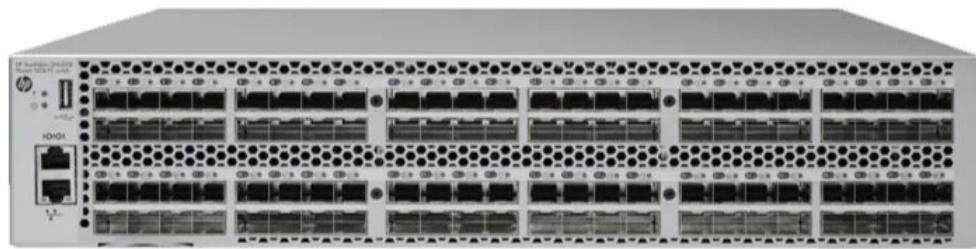
Product Overview

- The HPE Storage Fibre Channel Switch B-series SN3600B is part of HPE's leading SAN portfolio, built for demanding business environments.
- This switch targets growing enterprises and data centers, supporting deployment in all-flash, high-density virtualized, and cloud-driven scenarios.
- It features up to 24 x 32Gbps SFP+ ports within a 1U chassis, providing high-density Fibre Channel connectivity and robust 4/8/16/32Gbps speed support.
- Key differentiators include dynamic Ports on Demand scalability, NVMe over Fabric readiness, and VM Insight for virtual machine-level visibility.
- Easy management comes from HPE PowerPack+ software, rapid 3-step setup, and Smart SAN automation for quick SAN zoning and monitoring.
- The SN3600B brings flash-ready speed, reliable scale, and simplified SAN operations, empowering fast application rollout for modern businesses.

Product Highlights

- Flash-Ready 32Gb Fibre Channel Performance:** Up to 24 high-speed ports in a compact 1U chassis deliver powerful all-flash storage connectivity and smooth scaling.
- Dynamic Port Scalability:** Ports on Demand capability enables fast, affordable capacity expansions in 8-port increments to fit evolving business needs.
- Hybrid Optics Support:** Supports both cost-effective 16Gb SFP+ and 32Gb SFP+ optics for flexible deployments and budget optimization.
- Automated SAN Management:** Smart SAN and PowerPack+ software deliver easy SAN setup, monitoring, and health management in virtualized and all-flash environments.

Detailed Features



C8R45B

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Component	Specification
Switching Mode	48-, 72-, and 96-port configs, 24-port increments via Ports on Demand
Port Types	Universal (E, F, M, D, EX), Diagnostic, Auto self-discovery
Aggregate Bandwidth	1536 Gb/s
Power Supply	Dual, hot-swappable, redundant



High-Performance Fibre Channel Architecture

The SN3600B leverages market-leading 32Gb Fibre Channel technology, delivering the performance required for all-flash storage and mission-critical data center workloads. Its high-density design supports up to 24 SFP+ ports in a compact 1U form factor, maximizing rack space efficiency while ensuring low-latency IO performance for demanding applications such as virtualization and large-scale SAN environments.

Flexible Scalability with Ports on Demand

With dynamic Ports on Demand (PoD), organizations can easily expand the switch's capacity in 8-port increments. This approach enables cost-effective growth while minimizing upfront investment. Included PoD upgrade kits combine both licenses and optics, ensuring seamless capacity expansion without complex procurement processes or downtime.

Versatile Optics Compatibility

Supporting both 32Gb FC SFP+ and the more affordable 16Gb SFP+ transceivers, the SN3600B provides flexible network planning. It lets organizations accommodate varying performance and budget requirements, while also supporting legacy speeds such as 8Gb FC to ease infrastructure transitions and maximize existing investments.

NVMe Over Fabric Ready

For organizations moving to all-flash arrays and latency-sensitive environments, the SN3600B is ready for NVMe over Fibre Channel. When combined with an NVMe-enabled SAN fabric, it reduces latency and increases IOPS, helping deliver the full benefit of next-generation storage technologies for virtualization and high-transaction workloads.

Granular Virtual Machine Insight

The SN3600B offers VM Insight with Virtual Machine Identity (VMID) support, enabling deep visibility and analytics for VM-level IO flows. Storage administrators can collect detailed performance metrics, pinpoint bottlenecks, and troubleshoot issues quickly for improved performance in virtualized environments.

Automated Smart SAN Orchestration

With HPE Smart SAN for 3PAR, the switch supports end-to-end automation for 3PAR all-flash Fibre Channel SAN deployments. This drastically simplifies traditional SAN zoning workflows, reducing configuration time from hours to minutes and minimizing human error in complex topologies.

Advanced Bandwidth and Latency Optimization

Utilizing ISL trunking technology, the SN3600B combines up to eight ports for a single logical link, providing up to 512Gbps full-duplex throughput. Cut-through switching techniques minimize port-to-port latency to under 900 nanoseconds, delivering optimal performance for time-sensitive applications in financial, medical, and cloud service sectors.

Comprehensive Monitoring and Power Efficiency

Real-time power usage monitoring gives operators visibility on energy consumption to optimize data center resources. The device only supports back-to-front airflow, ensuring compatibility with modern hot/cold aisle containment strategies for efficient cooling and operational reliability.

Technical Specifications

Product Specifications

Feature	Value
Dimensions (H x W x D)	86.74 x 429.25 x 609.75 mm (3.42 x 16.90 x 24.01 in)
Fibre Channel Ports	Switch mode (default): 48-, 72-, and 96-port configurations (24-port increments via Ports on Demand licenses)
Port Types	Universal (E, F, M, D, EX) ports; D_Port (Diagnostic); E_Port, EX_Port, F_Port, M_Port (Mirror); U_Port (auto self-discovery); F_Port and NPIV-enabled N_Port in Access Gateway mode
Interoperability	8/8, 8/24, SN3000B, SN6000B, SN6500B SAN switches; 1606 Extension, SN4000B SAN extension switch; SN8000B 8-Slot and 4-Slot SAN directors; Brocade 8Gb SAN switch for HPE BladeSystem c-Class; Brocade 16Gb SAN switch for HPE BladeSystem c-Class; Brocade 16Gb FC SAN switch module for HPE Synergy



Feature	Value
Performance	Auto-sensing 4, 8, 16 Gb/s port speeds; ISL trunking: up to eight 16 Gb/s ports per trunk, 128 Gb/s per trunk; no limit to trunk groups; exchange-based load balancing across ISLs with DPS (Fabric OS)
Aggregate Bandwidth	1536 Gb/s
Fabric Latency	Locally switched port latency: 700 ns; Encryption/compression: 5.5 s per node; FEC adds 400 ns between E_Ports (enabled by default)
Maximum Frame Size	2112-byte payload
Classes of Service	Class 2, Class 3, Class F (Inter-switch frames)
Data Traffic Types	Fabric switches supporting unicast
Media Types	Hot-pluggable, B-Series SFP, LC connector; Short-Wave Laser (SWL), Long-Wave Laser (LWL); supports SFP+ (16/10/8 Gb/s) optical transceivers; distance depends on fiber and port speed
USB Port	One USB port for system log downloads or firmware upgrades
Operating Temperature	0° to 40°C (32° to 104°F)
Non-operating Temperature	-25° to 70°C (-13° to 158°F)
Operating Humidity	10% to 85% (non-condensing)
Non-operating Humidity	10% to 90% (non-condensing)
Operating Altitude	Up to 3000 m (9,842 ft)
Storage Altitude	Up to 12 km (39,370 ft)
Operating Shock	20G, 6 ms half-sine
Non-operating Shock	Half-sine, 33G 11 ms, 3/eg axis
Operating Vibration	0.5G sine, 0.4 grms random, 5 to 500 Hz
Non-operating Vibration	2.0G sine, 1.1 grms random, 5 to 500 Hz
Power Supply	Dual, hot-swappable, redundant power supplies
AC Input	85 to 264 V, ~5 to 2.5 A
Input Line Frequency	47 to 63 Hz
Power Consumption	450 W (all 96 ports with 16 Gb/s SWL optics); 350 W (empty chassis, no optics)



Product Comparison

Feature	C8R45B	C8R07A	C1-N7710-B26S2E-R
Fibre Channel Ports	48-, 72-, 96-port configs	48-port config	48 x 25GbE SFP28, 8 x 100GbE QSFP28
Aggregate Bandwidth	1536 Gb/s	768 Gb/s	2.56 Tbps
Port Type	Universal FC (E, F, M, D, EX), SFP+	FC SFP+	Ethernet SFP28/QSFP28
Port Speeds	4/8/16/32Gbps	4/8/16Gbps	1/10/25/40/100Gbps
Stacking/ Scale	Ports on Demand, up to 96 FC	No PoD scaling	Stackable
Latency	700 ns locally switched	700 ns	Variable (based on use)
Redundant Power	Dual, hot-swappable	Yes	Yes
Management Software	PowerPack+, Smart SAN	Standard	Advanced CLI, Web UI
Application Focus	All-flash SAN, NVMe, VM environments	Traditional SAN	High-density datacenter switching

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Cords - Rack Mount Kit - Quick Start Guide
Optional Accessories	<ul style="list-style-type: none"> - 32Gb SFP+ Transceiver - 16Gb SFP+ Transceiver - Extended Fabric License



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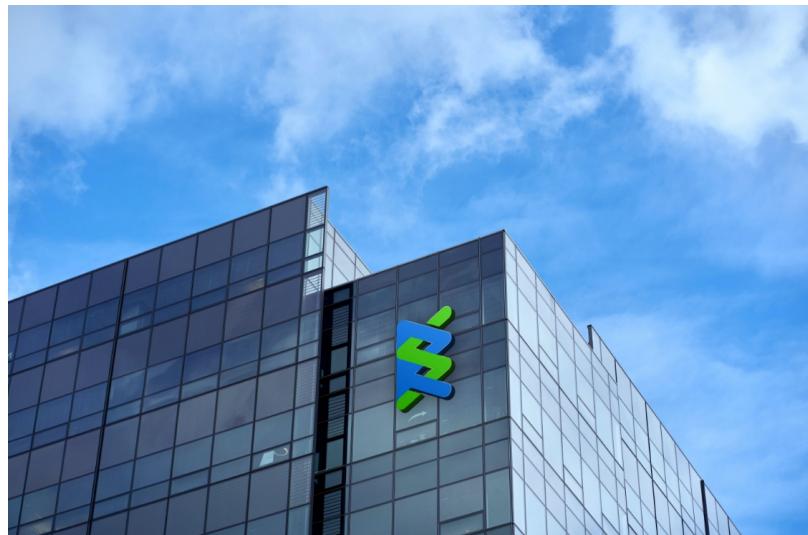


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References

[1] HPE. (2023). HPE Storage Fibre Channel Switch B-series SN3600B Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/a00000578enw.html>