

# HPE C8R08A

## Datasheet



## Product Overview

- The HPE Storage Fibre Channel Switch B-series SN3600B is an enterprise SAN switch in the HPE B-series family tailored for reliable and high-performance data centers.
- Ideal for small to large businesses, it addresses the SAN needs for workgroups, enterprises, and any organization scaling workloads that require all-flash data center environments.
- It supports up to 24 x 32Gbps SFP+ Fibre Channel ports in a 1U form factor, running 4/8/16/32 Gbps, with flexible optics to match evolving performance needs.
- Dynamic Ports on Demand enable efficient scaling, while advanced SAN management through HPE PowerPack+ Software brings real-time health and performance monitoring.
- Deployments benefit from simple configuration and HPE Smart SAN fabric orchestration, making SAN zoning and management seamless and fast.
- The SN3600B brings market-leading Fibre Channel technology, ease of management, and lasting value to organizations planning resilient, high-demand SAN environments.

## Product Highlights

- **Flash-Ready Performance and Flexible Scalability:** Delivers up to 32Gbps per port and supports deployment from 8 up to 24 ports, ideal for budget-conscious and demanding enterprise SAN environments.
- **Industry-Leading Reliability & Investment Protection:** Supports replacement for legacy entry-level FC switches, offering future-ready interoperability and uninterrupted upgrade paths.
- **Advanced Ports on Demand Upgrades:** Incrementally scale in 8-port kits with simple licensing and optic bundles for cost-effective and responsive network growth.
- **Enhanced SAN Management & Visibility:** PowerPack+ Software offers granular monitoring, automated fabric orchestration, and swift SAN zoning via HPE Smart SAN for 3PAR.

## Detailed Features



### C8R08A

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Component	Specification
Switch Architecture	16Gb, 48/24 ports
Max Ports	48 SFP+ ports
Port Speed	16Gbps
Form Factor	1U rack-mount
Power Supply	Redundant, hot-swappable



## 32Gbps Fibre Channel Performance

The SN3600Bs support for 32Gb Fibre Channel technology ensures exceptionally high throughput and low-latency data transfer. It is engineered for modern environments that demand fast application response times, especially with all-flash storage arrays. This guarantees smooth data flow under heavy workloads, minimizing bottlenecks and ensuring business continuity for mission-critical operations.

## Unmatched Port Density in 1U

This switch offers up to 24 SFP+ ports at 32Gbps within a compact 1U enclosure. Such high density optimizes valuable rack space while keeping power and cooling costs low. Enterprises can consolidate their SAN infrastructure footprint without sacrificing connectivity, making it ideal for dense data center deployments where efficiency and flexibility are crucial.

## Dynamic Ports on Demand Licensing

The SN3600B integrates flexible Ports on Demand (PoD), allowing expansion in affordable 8-port increments. This modular approach aligns investment with network growth, reducing upfront costs and supporting pay-as-you-grow scaling. IT teams can respond quickly to expanding workloads without wasting unused capacity or overspending on infrastructure.

## Comprehensive Multi-Speed Optics Support

Supporting 4, 8, 16, and 32Gbps Fibre Channel optics, the SN3600B enables organizations to mix and match port speeds based on requirement and budget. Users can opt for more affordable 16Gbps SFP+ in less critical roles, ensuring future-proof investment protection while smoothly transitioning to higher speeds as needed.

## Enterprise SAN Automation with Smart SAN

Integrated HPE Smart SAN automates manual zoning processes for 3PAR environments, reducing SAN configuration from hours to minutes. Storage administrators benefit from simplified operations, fewer errors, and improved consistency across large-scale all-flash deployments. This accelerates new application onboarding and minimizes downtime during updates.

## Advanced SAN Health Monitoring

The embedded Power Pack+ Software provides tools like Fabric Vision, ISL Trunking, and Extended Fabric. These features empower administrators to monitor network health in real time, optimize traffic, and enforce high security postures. Troubleshooting is quicker, and administrators gain actionable insights for continuous optimization and reliability.

## NVMe over Fabrics & Virtual Machine Insights

NVMe over Fabric readiness ensures the switch can handle latency-sensitive, high-performance storage traffic common in next-gen data centers. VM Insight with Virtual Machine ID enables granular monitoring of virtualized workloads, giving deep visibility to pinpoint and resolve performance issues at the VM level, improving SLAs and resource efficiency.

## Efficient Power and Cooling Design

Operational efficiency is enhanced by a real-time power monitoring system and a back-to-front airflow architecture. Hot-swappable dual power supplies and fan modules ensure continuous uptime and maintain stable operations even in challenging data center environments. These design choices lower TCO while upholding enterprise reliability standards.

# Technical Specifications

## Product Specifications

Feature	Value
Dimensions (H x W x D)	43 x 438 x 443 mm (1.7 x 17.23 x 17.45 in)
Enclosure Type	Port side Intake and Port side Exhaust airflow models available; power from back; 1U
Operating Temperature Range	0°C to 40°C (32°F to 104°F)
Non-operating Temperature Range	-25°C to 70°C (-13°F to 158°F)
Operating Humidity	10% to 85% non-condensing
Non-operating Humidity	10% to 85% non-condensing
Shock (Operating)	20 G, 6 ms half-sine
Shock (Non-operating)	Half sine, 33 G, 11 ms, 3/eg Axis



Feature	Value
Vibration (Operating)	0.5 G sine, 0.4 gm random, 5 to 500 Hz
Vibration (Non-operating)	2.0 G sine, 1.1 gm random, 5 to 500 Hz
Operating Altitude	Up to 3,000 m (9,842 ft)
Non-operating Altitude	Up to 12,000 m (39,370 ft)
AC Input Voltage	85 to 264 V ~5 to 2.5 A
Input Line Frequency	47 to 63 Hz
Power Supply	Dual, hot-swappable redundant power supplies with integrated system cooling fans
Power Consumption (Fully Populated)	110 W with all 48 ports populated with 16 Gb/s SWL optics
Power Consumption (Empty Chassis)	72 W with no optics

## Product Comparison

Feature	C8R08A	JL709A	C1-N7710-B26S2E
Switch Type	Fibre Channel SAN Switch	Ethernet Layer 3 Switch	Aggregation/Core Data Center Switch
Max Ports	24 SFP+ (32Gbps Fibre Channel)	48 × 1G + 4 × 10G SFP+	26 × 100G QSFP28 + 2 × 400G QSFP-DD
Forwarding Performance	32Gbps per port	Up to 176 Gbps	Up to 4.8 Tbps
PoE Support	No	Yes, up to 370W	No
Redundant Power	Dual hot-swappable	Yes	Yes
Main Use Case	Fibre Channel SAN, all-flash storage	Enterprise Access/ Distribution	High-performance data center/core
Management	PowerPack+ SAN Tools	Web, CLI, SNMP	Web, CLI, Automation APIs
Form Factor	1U rack-mount	1U rack-mount	1U rack-mount

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Rack Mount Kit</li> <li>- Power Cable</li> <li>- Quick Start Guide</li> </ul>



Category	Accessories
Optional Accessories	<ul style="list-style-type: none"><li>- 16Gb/32Gb SFP+ Transceiver Modules</li><li>- Spare Fan Unit</li><li>- Extended Fabric License</li></ul>



## Support & Warranty



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## References

[1] HPE. (2022). HPE Storage Fibre Channel Switch B-series SN3600B Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/a00000578enw.html>