

# HPE C8R43A

## Datasheet



## Product Overview

- The HPE Storage Fibre Channel Switch B-series SN3600B is an enterprise-class 32Gb FC switch designed for next-generation data centers.
- It is built for businesses and IT integrators running mission-critical applications, virtualization, and demanding workloads in all-flash data centers.
- Offers up to 24 x 32Gbps SFP+ ports within a compact 1U form factor, with flexible 8/16/32 Gbps rates and high performance for dense fabrics.
- Standout features include dynamic Ports on Demand (PoD), high FC port density, and support for both 16Gb and 32Gb optics for budget flexibility.
- Management is simplified through rapid 3-step configuration, comprehensive SAN monitoring with HPE PowerPack+ Software, and automated zoning for flash SANs.
- Ideal for small to large enterprises, the SN3600B delivers reliable, scalable, and easy-to-manage SAN infrastructure for data-driven environments.

## Product Highlights

- **Flexible Scalability:** Dynamic Ports on Demand (PoD) enable easy, cost-effective scaling from 8 to 24 ports as business needs grow.
- **Flash-Ready Performance:** Delivers up to 32Gbps per port, ensuring high-speed, low-latency connections optimized for all-flash SAN environments.
- **Advanced Monitoring:** Real-time power monitoring and VM Insight deliver visibility, while PowerPack+ Software supports proactive SAN health management.
- **Interoperability & Reliability:** Seamlessly replaces older FC switches, offers broad SAN compatibility, and ensures reliable uptime with redundant architecture.

## Detailed Features



C8R43A

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Component	Specification
Port Configuration	48-, 72-, and 96-port (24-port increments via PoD licenses)
Port Types	Universal (E, F, M, D, EX)
Form Factor	1U
SFP+ Support	16/32Gb Fibre Channel SFP+ optics
Management	HPE PowerPack+ Software Integration



## Flash-Optimized Architecture

The SN3600B is engineered for high-performance flash storage, leveraging market-leading 32Gbps throughput and ultra-low latency. Its architecture is tailored to facilitate smooth operations for mission-critical workloads, ensuring rapid data access and seamless application delivery across large and demanding environments.

## Flexible Ports on Demand (PoD)

This switch features dynamic Ports on Demand licensing, enabling fast and budget-friendly expansion in small 8-port increments. Each kit includes both licenses and optics under one part number. Businesses can scale infrastructure cost-effectively, adding capacity only as needed while maintaining operational continuity.

## Comprehensive SAN Management

HPE Power Pack+ Software is bundled to deliver Fabric Vision, ISL Trunking, and Extended Fabric support. These tools empower administrators with advanced network health monitoring, detailed diagnostics, and simplified management, leading to maximum visibility, security, and efficiency in SAN operations.

## NVMe and Virtualization Support

The SN3600B is NVMe over Fabric ready, providing support for latency-sensitive, all-flash environments. Its VMID/VM Insight capability reveals granular stats for virtualized applications, enabling precise troubleshooting and performance tuning for large-scale virtualization or cloud deployments.

## Auto SAN Orchestration

Through HPE Smart SAN for 3PAR, traditional SAN zoning is simplified from hours to minutes. This automated orchestration accelerates all-flash deployments and helps enterprises integrate, configure, and manage fabrics with just a few clicks—minimizing manual errors and reducing time to value.

## High-Density & Efficient Design

With up to 24 x 32Gbps SFP+ ports in a compact 1U enclosure, the SN3600B delivers the industry's highest port density at entry-level. Its design saves rack space, optimizes power consumption, and aligns with limited budgets in enterprise or departmental scenarios.

## Superior Bandwidth & Trunking

ISL Trunking technology allows for bundling up to eight ports between switches, delivering up to 256Gbps speed per logical connection. Cut-through frame switching keeps port-to-port latency under 900 nanoseconds, crucial for high-throughput and latency-critical applications in modern data centers.

## Operational Reliability & Power Monitoring

The switch features redundant, hot-swappable power supplies and real-time power monitoring, ensuring consistent operation under varying loads. Back-to-front airflow supports orderly cooling, while real-time telemetry enables predictive maintenance and operational resilience for enterprise SANs.

# 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)
Port Options	48-, 72-, and 96-port configurations (24-port increments via PoD licenses)
Universal Port Types	E, F, M, D, EX
Interoperability	Supports 8/8 SAN switch, 8/24 SAN switch, SN3000B, SN6000B, SN6500B, 1606 Extension SAN switch, SN4000B SAN extension switch, SN8000B 8-Slot SAN backbone director, SN8000B 4-Slot SAN director, Brocade 8Gb SAN switch for HPE BladeSystem c-Class, Brocade 16Gb SAN switch for HPE BladeSystem c-Class, Brocade 16Gb Fibre Channel SAN switch module for HPE Synergy
Supported Speed	Auto-sensing for 4, 8, 16 Gb/s port speeds



Feature	Value
ISL Trunking	Up to eight 16 Gb/s ports per ISL trunk, up to 128 Gb/s per trunk; DPS load balancing; No limit on trunk groups
Aggregate Bandwidth	1536 Gb/s
Fabric Latency	700 ns (locally switched ports); Encryption/compression 5.5 s per node; FEC adds 400 ns between E_Ports
Maximum Frame Size	2112-byte payload
Classes of Service	Class 2, Class 3, Class F (Inter-switch frames)
Port Types Detail	D_Port (Diagnostic), E_Port, EX_Port, F_Port, M_Port (Mirror), U_Port (self discovery), Access Gateway mode: F_Port and NPIV-enabled N_Port
Data Traffic Support	Supports unicast
Media Types	Hot-pluggable, B-Series Branded SFP, LC connector; Short-Wave Laser (SWL), Long-Wave Laser (LWL); Supports SFP+ 16/10/8 Gb/s optical transceivers
Cable Distance	Depends on fiber-optic cable and port speed
USB	1 USB port for system log download or firmware upgrade
Temperature Range Operating	0°C to 40°C (32°F to 104°F)
Temperature Range Non-operating	-25°C to 70°C (-13°F 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)
Shock Operating	20G, 6 ms half-sine
Shock Non-operating	33G, 11 ms half-sine, 3/eg axis
Vibration Operating	0.5G sine, 0.4 grms random, 5–500 Hz
Vibration Non-operating	2.0G sine, 1.1 grms random, 5–500 Hz
Power Supply	Dual, hot-swappable, redundant power supplies
AC Input	85 to 264 V, ~5 to 2.5 A; Frequency: 47 to 63 Hz
Power Consumption (96 ports with optics)	450 W (all 96 ports with 16 Gb/s SWL optics)
Power Consumption (empty chassis)	350 W (empty chassis, no optics)



## Product Comparison

Feature	C8R43A	C8S45A	BR-G620-24-16G-F
Port Speed	32Gbps Fibre Channel	16Gbps Fibre Channel	16Gbps Fibre Channel
Port Density	Up to 96 ports (via PoD)	Up to 48 ports	24 SFP+ ports
Form Factor	1U	1U	1U
Scalability	Dynamic PoD 8-port increments	Fixed PoD licensing	Fixed configuration
Redundant PSU	Yes, dual hot-swappable	Yes, hot-swappable	Yes, hot-swappable
Max Bandwidth	1536 Gb/s	768 Gb/s	384 Gb/s
Advanced SAN Management	HPE PowerPack+, Smart SAN	Standard SAN tools	Standard SAN tools
NVMe over FC Support	Yes (NVMe/F Ready)	No	Limited
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Dual Power Supplies</li> <li>- Mounting Kit</li> <li>- Documentation Kit</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP+ Optical Transceivers</li> <li>- Additional PoD License Kits</li> <li>- Rack Rails</li> </ul>



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### Shenzhen Branch

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### UK Branch

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## References

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