

# HPE C8R44B

## Datasheet

## Product Overview

- HPE brings advanced connectivity to storage networks with the B-series SN3600B Fibre Channel Switch, tailored for all-flash, modern data centers.
- This switch serves small to large enterprises handling mission-critical workloads, virtualization, and multi-tenant cloud scenarios.
- Engineered with up to 24 x 32Gbps SFP+ ports in 1U, it supports 4/8/16/32Gbps speeds, high IOPS, aggregate bandwidth, and low-latency design.
- Unique features include dynamic Ports on Demand, HPE PowerPack+ SAN management, and advanced VM Insight for granular virtualized workload visibility.
- Deployment is simplified with rapid 3-step setup, PowerPack+ monitoring suite, and seamless interoperability with large HPE/Brocade SAN environments.
- Ideal for growing enterprises, it delivers scalable, budget-friendly performance, helping users quickly adapt IT infrastructure to meet business and application demands.

## Product Highlights

- **32Gbps Fibre Channel Performance:** Up to 24 x 32Gbps SFP+ ports in 1U deliver high-speed throughput for flash storage and mission-critical workloads.
- **Flexible Scalability:** Ports on Demand licensing allows seamless expansion in 8-port increments with cost-efficient upgrade kits.
- **Advanced SAN Management:** PowerPack+ provides tools like Fabric Vision and ISL Trunking, boosting visibility, security, and network health.
- **Multi-Generation Interoperability:** Supports legacy and current SAN environments for easy migration and future-proof investment.

## Detailed Features



C8R44B

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Component	Specification
Port Configurations	48, 72, and 96-port (24-port increments via PoD licenses)
Port Types	Universal: E, F, M, D, EX
Maximum Speed	Up to 32Gbps per port
Form Factor	1U
SAN Interoperability	Supports HPE and Brocade SAN platforms



## High-Performance Fibre Channel Switching

The SN3600B delivers enterprise-grade 32Gbps throughput, enabling high-bandwidth, low-latency connections that support flash-ready storage environments and clustered mission-critical workloads. It supports up to 24 active SFP+ ports in a compact design for efficiency.

## Flexible Port Scalability

With dynamic Ports on Demand, the switch supports flexible incremental upgrades. Users can start with 8 ports and scale in 8-port increments as needed, balancing capacity growth with investment protection for evolving business needs.

## Integrated SAN Management

HPE PowerPack+ software provides advanced SAN management with Fabric Vision and ISL Trunking. This suite enhances monitoring, health analysis, fabric automation, and provides extended fabric capability for secure large-scale deployments.

## Robust Virtualization Support

Features like NVMe over Fabrics and VM Insight deliver visibility into application IO flows. Administrators gain granular control and easier troubleshooting for virtualized environments, optimizing SAN performance for VM-intensive workloads.

## Comprehensive Interoperability

The SN3600B is engineered for seamless compatibility with legacy HPE and Brocade Fibre Channel infrastructures, simplifying upgrades and migrations while protecting previous hardware investments.

## Advanced Automation Features

Smart SAN for 3PAR offers centralized, wizard-driven SAN zoning and automated fabric orchestration. This reduces deployment time for all-flash Fibre Channel SANs from hours to minutes and minimizes configuration errors.

## High-Reality, Dense Deployment

The 1U chassis supports the industry's highest port density in its class, enabling customers to build dense, high-speed fabrics within limited rack space. This is ideal for data center consolidation and environments with space constraints.

## Power and Energy Efficiency

Features real-time power monitoring, efficient back-to-front airflow, and an energy-optimized architecture. Dual hot-swappable power supplies ensure uptime while controlling operational costs in demanding enterprise networks.

# 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	48, 72, and 96-port configurations (24-port increments via Ports on Demand licenses), Universal port types: E, F, M, D, EX
Interoperability	8/8 SAN switch, 8/24 SAN switch, SN3000B, SN6000B, SN6500B SAN switches, 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
Performance	Auto-sensing 4, 8, and 16 Gbps port speeds, ISL trunking up to eight 16 Gbps ports (128 Gbps per trunk), unlimited trunk groups, Exchange-based load balancing (DPS in Fabric OS)
Aggregate Bandwidth	1536 Gbps
Fabric Latency	700 ns (locally switched ports); Encryption/compression: 5.5 sec per node; FEC adds 400 ns between E_Ports (enabled by default)



Feature	Value
Maximum Frame Size	2112-byte payload
Classes of Service	Class 2, Class 3, Class F (Inter-switch frames)
Port Types	D_Port (Diagnostic), E_Port, EX_Port, F_Port, M_Port (Mirror), U_Port (Self-detect), Access Gateway mode (F_Port, NPIV-enabled N_Port)
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 Gbps) optical transceivers, distance depends on fiber and port speed
USB	One USB port for system log file 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	33G, 11 ms half-sine, 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 (fully populated with 96 x 16Gbps SWL optics); 350 W (empty chassis, no optics)

## Product Comparison

Feature	C8R44B	OS6350-P10	CE9866-128DQ
Port Configuration	48, 72, or 96-port FC (PoD scalable)	8 x 10/100/1000 ports + 2 x 1G SFP uplink	128 x 400GE QSFP112 + 2 x 10GE SFP
Port Type	Fibre Channel, Universal ports (E,F,M,D,EX)	RJ-45/SFP (copper/fiber)	QSFP112 (optical)



Feature	C8R44B	OS6350-P10	CE9866-128DQ
Max Port Speed	32Gbps FC	1Gbps	400Gbps
Switching Fabric	Managed Fibre Channel	Layer 2/3 switching	Layer 2/3 data center switching
Management Features	HPE PowerPack+ (SAN Health, Fabric Vision), PoD	Web/SNMP, PoE	CLI, Web GUI, sFlow, VRRP
Power Redundancy	Dual hot-swappable PSU	Yes	Yes
Dimensions (W x D x H)	429.25 x 609.75 x 86.74 mm	440 x 104 x 44 mm	442 x 640 x 88.1 mm
Special Features	NVMeoF, VMID, Smart SAN for 3PAR	PoE, Fanless design	High-density data center, advanced automation
Use Case	Storage SAN-optimized, virtualization	Branch access	Core/aggregation/high-performance data centers

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Dual Power Supplies</li> <li>- Rack Mount Kit</li> <li>- Console Cable</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- 32Gbps SFP+ Transceiver</li> <li>- 16Gbps SFP+ Transceiver</li> <li>- Enhanced PowerPack+ Software License</li> </ul>



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## References

[1] HPE. (2023). HPE SN3600B Fibre Channel Switch: Data Sheet. Retrieved from <https://www.hpe.com/psnow/doc/a00000578enw.html>