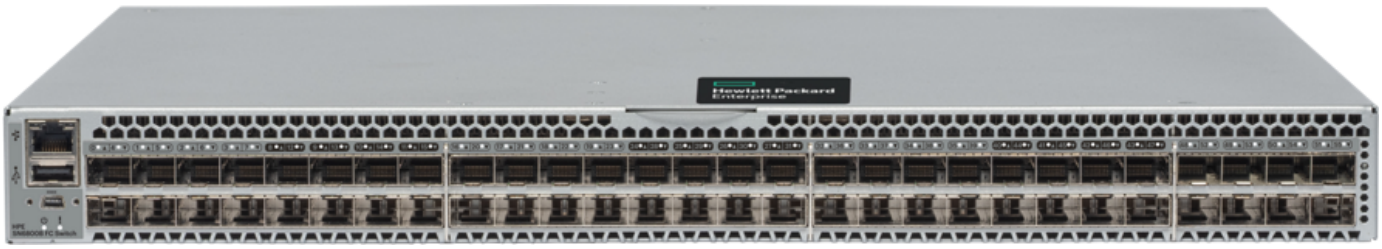
Data sheet

HPE Storage Fibre Channel Switch B-series SN6800B



What's new

- 128G Connectivity: The SN6800B doubles the bandwidth of previous Gen7 switches, offering 128Gbps line speeds across its ports.
- Post-quantum Cryptography (PQC): The Gen8 architecture introduces quantum-resistant algorithms and protocols to protect data against future decryption by quantum computers.
- Adaptive Traffic Optimizer: Automatically classifies and prioritizes traffic based on protocol, speed, and latency profile, helping ensure that slower devices do not block high-speed NVMe or FC flows.
- SAN Fabric Intelligence (SAN FI): Provides end-to-end visibility by correlating server, storage, and virtual machine resources, which automates troubleshooting and management.

Overview

As workloads become more demanding, cyber threats become more sophisticated, and the spectrum of threats expands, it is essential to fortify the storage network against hidden risks. The network must deliver optimal performance, operate
autonomously, streamline management, and protect critical data. The HPE Storage Fibre Channel Switch B-series SN6800B with Gen8 technology delivers the performance, automation, and security necessary to enable these capabilities.

Features

Gen8 128G Performance

With 56 128G SFP ports and unmatched low latency, this switch delivers exceptional bandwidth and throughput, making it ideal for fueling enterprise AI and modern workloads.

High-density 1U Switch

With its compact design, the HPE Storage Fibre Channel Switch B-series SN6800B enables efficient use of rack space while providing the scalability necessary for future growth. Scale from 24x to 56x 128G ports in 8-port increments, on demand, utilizing four 8-port port-on-demand (POD) kits.

Quantum-safe Architecture

Built on a cyber-resilient, quantum-safe architecture that fortifies the SAN to protect critical data and applications from quantum computing and cybersecurity threats. Protects against unauthorized access by securing storage traffic through Fibre Channel isolation and role-based access controls.

Self-healing Technology

Built-in congestion management helps ensure traffic flows smoothly and performance remains consistent, while self-healing capabilities maintain uptime when issues arise. Set-and-forget automation eliminates the need for constant monitoring and manual intervention, reducing troubleshooting time.

Simplified SAN Management

To simplify SAN operations, HPE Storage Fibre Channel Switch B-series SN6800B offers easy-to-use management tools that improve efficiency and provide organizations with greater visibility and control. The switch features a built-in simplified user interface making it easier to manage everyday tasks.

Technical specifications	HPE Storage Fibre Channel Switch B-series SN6800B
Port speed	128Gb
Ports	56 maximum
Aggregate switch bandwidth	7.168Tbps, maximum
Encryption capability	Quantum-safe (PQC algorithms) in-flight encryption, AES-GCM-256
Protocol supported	Fibre Channel
Availability features	Hot code load, ports-on-demand with no downtime hot-swappable redundant power supplies with integrated cooling fans
Media types	Supports 128GB and 64GB FC transceivers
Management software	Web Tools
Upgradability	Activate additional ports using 8-port POD kit upgrades
Model availability	128Gb 24-port active with 24 64Gb SFPs Non Portside Intake (NPI) airflow, 128Gb 24-port active with 24 64Gb SFPs Non Portside Exhaust (NPE) airflow, 128Gb 24-port active with 24 128Gb SFPs Non Portside Intake (NPI) airflow, 128Gb 24-port active with 24 128Gb SFPs Non Portside Exhaust (NPE) airflow
Software (optional)	SANnav, all offerings include Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing, and FICON CUP
Software (required)	FOS 10.x minimum
Form factor	1U
Warranty	The Hardware Warranty is 3-year parts, 3-year on-site (standard business hours, next business day response) and 3-year labor. For more information, refer to the HPE website at https://hpe.com/support.

HPE Services

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

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. 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

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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