HPE Storage Fibre Channel Switch B-series SN6750B

HPE SN6750B 64Gb 48/128 48-port 64Gb Short Wave SFP56 Integrated Fibre Channel Switch (R8U61A)

What's new

- Features switch offerings with 64Gb optics as well as Port-on-Demand upgrade kits bundled with 64Gb optics or 64Gb double-density (DD) optics, enabling scaling from 48 to 128 ports.
- HPE Storage SN6750B Gen7 64Gb fibre channel switch technology enables organizations to realize a self-learning, self-optimizing, and self-healing autonomous SAN.
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Overview

Are you struggling to meet the I/O demands of hyper-scale virtualization, large cloud infrastructures, and growing flash-based storage environments?

The HPE Storage Fibre Channel Switch B-series SN6750B is an ultra-dense, high-performance, highly scalable, enterprise-class storage networking switch delivering Gen7 64Gb Fibre Channel capabilities. It is designed to support data growth, demanding workloads, and data center consolidation in large scale enterprise infrastructures. Delivering 64Gb performance and high port density, it accelerates data access, adapts to evolving requirements, and drives 24x7 businesses. It can scale from 48 to 128 ports with Port On Demand (POD) upgrades in a 2U package enabling organizations to create high-scale fabrics in less space. In addition, with a 50% latency reduction compared to the previous generation and no oversubscription, the switch improves performance of NVMe storage and high-transaction workloads.[1]

Features

Enhanced Security

With enhanced security and autonomous SAN technology, the HPE Storage Fibre Channel Switch B-series SN6750B takes the guesswork out of protecting and managing a network.

It enables a cyber-resilient network that protects against security threats, enables nonstop operations, and increases management automation.

Increase Performance for Application and Solid State Storage Architectures

The HPE Storage Fibre Channel Switch B-series SN6750B delivers increased performance through a combination of improved throughput and low latency across 64Gb links in hyper-scale virtualization, large cloud infrastructures, and growing flash-based storage environments.

Improved performance of NVMe storage with 50% lower switching latency than 32Gb. Latency for locally switched ports is 460 ns including forward error correction (FEC). [1]

With 96 SFP+ ports and 16 DD ports, it can scale up to 128 device ports for an aggregate throughput of 8.192Tbps. [1]

Ultra-dense and Highly Scalable

The HPE Storage Fibre Channel Switch B-series SN6750B scales up to 128 device ports in an efficiently designed 2U form factor, delivering increased port density and space utilization for simplified scalability.

Each of the 96 SFP+ ports and 16 DD ports supports 8, 10, 16, 32, and 64Gb FC speeds.

Provides flexibility to utilize high-speed 64Gb, 64Gb DD, 32Gb, 10Gb optics on demand to meet growing data center needs and provide backward compatibility to older infrastructures.

Technical specifications	HPE SN6750B 64Gb 48/128 48-port 64Gb Short Wave SFP56 Integrated Fibre Channel Switch
Product Number	R8U61A
Port speed	64Gb
Ports	48-port active with 48 64Gb SW transceivers
Aggregate switch bandwidth	8.192 Tbps, maximum
Encryption capability	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 64Gb, 32Gb SFP and 64Gb DD transceivers
Upgradability	Activate additional ports using 24 port SFP and 32 port DD POD Kit upgrades
Software (optional)	SANnav, All offerings include HPE Power Pack+ (Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing, and FICON CUP)
Form factor	2U
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.

[1] Internal Brocade comparison to Brocade G730 Switch (HPE SN6600B Fibre Channel Switch), March 2021. (https://docs.broadcom.com/doc/G730-Switch-PB)

HPE Services

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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.

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— **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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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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PSN1014666469WWEN, October, 2026.

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