

HPE Storage Fibre Channel Switch B-series SN6600B

HPE SN6600B 32Gb 48/24 16Gb Short Wave SFP+ Fibre Channel Switch (R6V47A)



What's new

- QSFP Port On Demand (PoD) kits including a PoD upgrade license, activating 4 QSFP ports, and 4 32Gb QSFP Fibre Channel optics.
- PoD kits including a PoD upgrade license, activating 12 ports, and 12 32Gb Fibre Channel optics.
- 32Gb short-wave QSFP with break-out capability added.
- New 16Gb or 32Gb transceivers bundled with switches.

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 SN6600B is a high-performance, ultra-dense, highly scalable, easy-to-use, and NVMe ready enterprise-class storage networking switch delivering Gen6 Fibre Channel (FC) capabilities. It is designed to support data growth, demanding workloads, and data center consolidation in small- to large-scale enterprise infrastructures. Delivering 32Gb to 128Gb performance, customized high port density, and integrated network sensors, it accelerates data access, adapts to evolving requirements, and drives 24x7 businesses. It can scale from 24 to 64 ports with 48 SFP+ and 4 QSFP+ ports, all in an efficient 1U package. In addition, a simplified deployment process and a point-and-click user interface make the HPE Storage Fibre Channel Switch B-series SN6600B easy to use.

Features

Increase Performance for Application and Solid State Storage Architectures

The HPE Storage Fibre Channel Switch B-series SN6600B delivers increased performance through a combination of improved throughput and low latency across 32Gb and 128Gb links in hyper-scale virtualization, large cloud infrastructures, and growing flash-based storage environments.

The onboard ASIC provides up to 566 million frames switched per second and up to 100 million IOPS to meet the demands of flash-based storage workloads.[1]

Port-to-port latency is reduced to 780 nanoseconds (including FEC) through the use of cut-through switching at 32G.[2]

With 48 SFP+ ports and 4 QSFP ports, each providing four 32Gb connections, it can scale up to 64 device ports for an aggregate throughput of 2Tb.

Ultra-dense and Highly Scalable

The HPE Storage Fibre Channel Switch B-series SN6600B scales up to 64 Fibre Channel ports in an efficiently designed 1U form factor, delivering increased port density and space utilization for simplified scalability.

Each of the 48 SFP+ ports supports 4, 8, 10, 16, and 32Gb FC speeds, while each of the four QSFP ports is capable of supporting 128Gb.

Provides flexibility to utilize high-speed 32Gb as well as 16Gb optics on demand to meet growing data center needs and provide backward compatibility to older infrastructures.

Simplified Management with Deep Analytical Insights

HPE Storage Fibre Channel Switch B-series SN6600B combines HPE Power Pack+ software that helps simplify monitoring, improve operational stability, and dramatically reduce costs.

Proactively and non-intrusively monitor storage device IO providing deep insight into problems and improved service level agreements (SLA).

Gain comprehensive visibility into the fabric using browser-accessible dashboards with drill-down capabilities.

Building Block for Virtualized, Private Cloud Storage

The HPE Storage Fibre Channel Switch B-series SN6600B supports multitenancy in cloud environments reducing the number of switches required.

Provides efficient link utilization with up to 64Gb of in-flight data compression over inter-switch links (ISLs).

Internal fault-tolerant and enterprise-class reliability, availability, and serviceability (RAS) features help reduce downtime to support mission-critical cloud environments.



Technical specifications

HPE SN6600B 32Gb 48/24 16Gb Short Wave SFP+ Fibre Channel Switch

Product Number	R6V47A
Port speed	32Gb
Aggregate switch bandwidth	2 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
Form factor	1U
Management features	B-series SAN Network Advisor Integration with Storage Essentials
BladeSystem supported	No
Upgradability	Activate additional ports using 12 port SFP and 16 port QSFP POD Kit upgrades
Media types	Supports 32Gb, 16Gb, 10Gb transceivers
Ports	24-ports active with 24 16Gb SW transceivers
Software (optional)	SANnav, HPE Power Pack+ (Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing, and FICON CUP)
Product dimensions	4.39 x 44 x 35.56 cm
Weight	7.73 kg with two power supply FRUs, without transceivers

[1], [2] source: <https://docs.broadcom.com/doc/GA-DS-2052>



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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

HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

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