



HPE SN6650B 32GB 128/48 48-PORT 32GB SHORT WAVE SFP+ INTEGRATED FIBRE CHANNEL SWITCH (Q9V95B)

B-series Switches



OVERVIEW

Is there a need to modernize your storage network? The all-flash data center and emerging NVMe storage requires a modern storage network that can keep up with pace of innovation seen with compute and storage resources. The HPE B-series SN6650B 32Gb FC switch is a high-port density building block with 128 Fibre Channel ports that provides the tools to optimize NVMe storage and automate SAN management tasks. It provides 32 Gb SAN connectivity with up to 4 Tbps total system bandwidth for data center consolidation and one of the most demanding all-flash workloads. New automation capabilities enable DevOps resources to automate operations to increase productivity with simple and open automation through open APIs and the Ansible automation engine. The HPE B-series SN6650B enables new insight into

NVMe storage fabrics with modern I/O traffic visibility and VM-level granularity to validate and fine-tune performance for better efficiency.

FEATURES

Flash-Ready Performance

Supports up to 4 Tbps bandwidth with very low latency < 780 ns (including FEC) through the use of cut-through switching.

Shatters application performance barriers with up to 200 million IOPS utilizing up to 566 million frame switching per second.

Delivers up to 384 Gbps of combined in-flight encryption and 192 Gbps of in-flight compression to improve bandwidth and help minimize the risk of unauthorized access.

Built in ASIC enables I/O insight into NVMe/FC storage traffic with VM-level granularity to validate and fine-tune performance for better efficiency.

Internal fault-tolerant and enterprise-class RAS features help minimize downtime to support growing mission-critical environments.

Easy Manageability with Simple and Open Automation

Provides tools to simplify and automate operations enabling DevOps resources to orchestrate SAN resources through open APIs and the Ansible automation engine.

Easier integration into third-party tools utilizing a library of templates and scripts (REST APIs) to help deploy applications faster.

Supports I/O Insight and VM Insight (included in HPE PowerPack+ software) to provide deeper visibility into FC/NVMe traffic.

Enterprise-class Scalability

Delivers industry-leading port density with 128 Fibre Channel ports in an elegant 2U form factor.

Provides 96 32-Gb SFP+ ports and eight 4×32-Gb QSFP ports to enable data centers to scale efficiently and deliver more connectivity with fewer switches.

Offers cost-effective pay-as-you-grow scalability, expanding from 48 to 128 ports with flexible Ports on Demand (PoD).

Supports 32/16/10/8/4 Gb Fibre Channel.



Technical specifications

HPE SN6650B 32Gb 128/48 48-port 32Gb Short Wave SFP+ Integrated Fibre Channel Switch

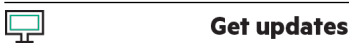
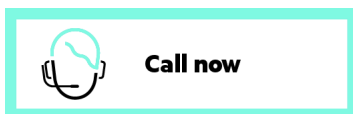
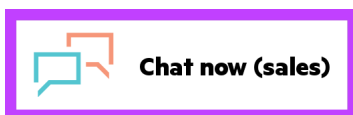
Product Number (SKU)	Q9V95B
Port speed	32 Gb
Aggregate switch bandwidth	4.096 Tbps
Encryption capability	Security types: DH-CHAP (between switches and end devices), FCAP switch authentication, HTTPS, IPsec, IP filtering, LDAP with IPv6, OpenLDAP, Port Binding, RADIUS, TACACS+, user-defined Role-Based Access Control (RBAC), Secure Copy (SCP), Secure RPC, Secure Syslog, SFTP, SSH v2, SSL, Switch Binding, Trusted Switch. The HPE SN6650B FC Switch provides up to 12 in-flight encryption and compression ports.
Protocol supported	Fibre Channel
Availability features	Hot plug and redundant: two power supply (FRUs) with integrated power module, three FAN FRUs with 2 fans each. Enhanced fault detection, Forward error correction (FEC) on 16 Gbps (configuration dependent) and 32 Gbps (FEC on full time) for all data paths and system memory.
Form factor	2U
Upgradability	HPE SN6650B 24-port SFP upgrade E-LTU (Port on demand) HPE SN6650B 32-port QSFP upgrade E-LTU (Port-on-demand)
Software (optional)	HPE Power Pack+ software (Includes Fabric Vision, Extended Fabric, ISL Trunking, IO Insight and VM Insight) HPE Network Advisor Professional Software (free), HPE SAN Network Advisor Professional Plus Upgrade, HPE SAN Network Advisor Enterprise software, HPE Smart SAN for 3PAR, HPE B-series Integrated Routing
Minimum dimensions (H x W x D)	Width: 440 mm (17.32 in.) Height: 86.7 mm (3.41 in.) Depth: 609.6 mm (24 in.)
Weight	21.31 kg (47.00 lb) with two power supply FRUs, and three fan FRUs without transceivers



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

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- [HPE Proactive Care](#) offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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