

HPE SN8700B 4-slot Power Pack+ Director Switch (R6A98A)

What's new

- HPE B-series SN8700B 64Gb/s 64-port high-density blade allows the HPE SN8700B to expand up to 512 ports along with 32 ICL connections for an additional 128 ports for chassis-to-chassis interconnect.
- HPE B-series SN8700B 64Gb SAN Director is offered with the flexibility of both Non-Port side Intake (NPI) and with Non-Port side Exhaust (NPE).
- The HPE SN8700B Director offers reduced latency compared to the previous generation.
- HPE B-series SN8700B Director blades are fully-integrated with 32 64Gb double density short wave, 48 64Gb short wave, 48 32Gb short wave, or 48 32Gb long wave transceivers.
- HPE B-series SN8700B Director offers reduced latency compared to the previous generation.
- The core blade upgrades for the HPE B-series SN8600B Director Switch allow customers to upgrade and unlock the features and 64Gb port bandwidth without replacing their chassis.

Overview

Are you looking to modernize your storage-networking infrastructure to efficiently meet the dynamic and growing demands of your business?

With more reliable data access and procedures to reduce human error, the HPE Storage Area Network Director Switch portfolio delivers a powerful Fibre Channel (FC) and multiprotocol switching infrastructure that can massively scale in a smaller footprint and unleash the full performance of flash and emerging NVMe-based storage.

It provides a mission-critical, scalable, and high-performance foundation for enterprise data centers with private and hybrid-cloud deployments and highly virtualized environments. The HPE Storage Area Network Director Switch portfolio contains the HPE B-series SN8700B 64Gb FC Switch and HPE B-series SN8600B 32Gb FC Switch. The HPE Storage Area Network Director is offered in 8-slot and 4-slot chassis providing up to 512 64Gb/s with up to 32 QSFP based ICLs equivalent to 128 FC ports.

Features

Improved Performance

HPE Storage Area Network Director Switch features up to 64Gbps FC performance and up to 39.6Tbps chassis bandwidth to address I/O and bandwidth-intensive applications for private cloud storage and highly virtualized environments.

Supports flash-based storage workloads with up to 1 billion IOPS utilizing 64-port 64Gb FC blade, 48-port 64Gb FC blade, 64-port 32Gb QSFP blade, 48-port 32Gb FC blade, and 32Gb SAN extension blade.

Increase scalability with up to 2X throughput for high-density virtual machine (VM) deployments and larger fabrics, allowing organizations to support more storage devices using the same number of FC links. [1]

HPE Storage Area Network Director family provides higher chassis, slot-to-slot, and port performance, enabling faster deployment of applications.

HPE B-series Director Switches offer local switching capabilities to verify that data traffic within the same port group does not consume slot bandwidth, increasing the number of line-rate ports.

Simplified Management

HPE Storage Area Network Director simplifies monitoring, management, and diagnostics to avoid problems before they impact operations and it dramatically reduces total cost of ownership (TCO).

HPE SN8700B and SN8600B SAN Directors integrated with HPE Network Orchestrator (NetO) offer greater visibility into your SAN fabric.

The HPE I/O Insight software with 64Gb and 32Gb FC technology enhances visibility into the health of your SAN.

Enables pro-active monitoring of I/O performance and behavior through integrated network sensors, allowing real-time monitoring of NVMe workloads, providing deep insight into problems, and improving service-level agreements (SLAs).

With new automation, organizations can quickly and reliably perform resource intensive tasks, such as provisioning, and enable uninterrupted SAN monitoring, so that tasks can be completed in less time. With automation, organizations can automate repetitive daily tasks and deliver consistent results.

Improves Business Continuity and Disaster Recovery Solutions

The HPE Storage Area Network Director delivers high bandwidth, port density, and throughput required for application performance over WAN connections addressing demanding disaster recovery (DR) requirements through 64Gb, 32Gb FC, and 1GbE/10GbE/40GbE ports.

Reduces bandwidth costs with in-flight data compression at wire speed and increases security with in-flight data encryption.

Provides native 10Gbps FC support on the 32Gb and 64Gb blade.

Lower TCO

HPE SN8600B 8-slot Power Pack+ Director Switch, HPE SN8600B 4-slot Power Pack+ Director Switch, HPE SN8700B 8-slot Power Pack+ Director Switch, and HPE SN8700B 4-slot Power Pack+ Director Switch seamlessly integrate with NVMe throughout the fabric.

Enables high-density, core-edge, and active-active mesh chassis topologies reducing inter-switch cabling by up to 75%. [2]

To meet ever-increasing demands for faster, more reliable data access, it is essential for organizations to deploy a modernized infrastructure that reduces latency, increases bandwidth, and helps ensure near-continuous availability. Unprecedented performance is not enough on its own.



Technical specifications

HPE SN8700B 4-slot Power Pack+ Director Switch

Product Number	R6A98A
Port speed	64Gbps Fibre Channel
Aggregate switch bandwidth	Up to 31 Tbps depending on model and blades selected
Encryption capability	In-flight encryption, data at rest encryption, depending on model
Management software	HPE Power Pack+ Software
Availability features	High availability with redundant hot swappable components, redundant power and cooling subsystems, automatic control processor failover non-disruptive "hot" software code loads, and activation concurrent hardware upgrades.
Form factor	9U
Management features	B-series SAN Network Advisor Integration with Storage Essentials, HPE OneView 1.2, HPE Intelligent Infrastructure Analyzer Software, PowerPack+ Software, Fabric Vision Software, ClearLink diagnostics.
Model availability	The HPE SAN Directors are offered in two form factors, a 4-slot chassis and an eight slot chassis. The 8-slot offering supports up to four power supplies providing 2+2 redundancy and up to three fan trays for 2+1 redundancy. The 4-slot chassis support requires two power supplies for 1+1 redundancy and two fans trays are required.
Upgradability	The HPE SN8700B SAN Director is upgradable with 64Gb and 32Gb capable FC port blades and the HPE SN8600B SAN Director is upgradable with 32Gb FC port blades. The HPE SN8600B SAN Extension Blade is supported on both the HPE SN8700B and HPE SN8600B SAN Directors providing FC extension (16×32Gb/s FC ports) and IP extension over IP networks (16×1GbE/10GbE and 2×40GbE ports).
Media types	The HPE SN8700B SAN Director supports 64Gb and 32Gb transceivers with the HPE SN8700B 64-port 64Gb high density port blade utilizing 64Gb double density transceivers the HPE SN8600B SAN Director supports B-series 32Gb and 16Gb transceivers, Quad Small Form-factor Pluggable (QSFP).
Software (required)	HPE Power Pack+ software comes with the HPE SN8700B and SN8600B SAN Director
Ports	16 to 512 Fibre Channel ports supported
Software (optional)	FICON CUP, MP Blade Performance Extension, Enterprise ICL License, and Fabric Vision Software

[1] <https://docs.broadcom.com/doc/X7-Director-PB>

[2] Two 64-port blades support 32 Inter-Switch Link (ISL) cable connections versus 128 FC cables required using the 48-port blades to achieve the same ISL connectivity, a 75% reduction in cable connectivity.



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

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.

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

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- 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.

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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.

The [Defective Media Retention \(DMR\)](#) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. [Comprehensive Defective Material Retention \(CDMR\)](#) allows you to keep all data retentive components.

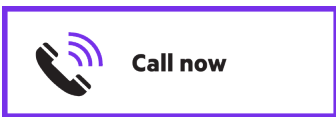
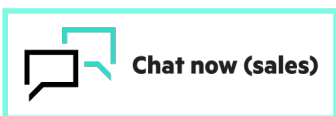
HPE GreenLake

[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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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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