

HPE SN1600Q 32GB DUAL PORT FIBRE CHANNEL HOST BUS ADAPTER (P9M76A)

Host Adapters



WHAT'S NEW

- Support for VM-ID and Buffer to Buffer Credit Recovery

OVERVIEW

Is your data center poised to take the next step in Fibre Channel connectivity?

The HPE SN1600Q 32Gb Fibre Channel Host Bus Adapters bring data center infrastructure components to a higher level of performance and efficiency with the ability to deliver twice the bandwidth of 16 Gb Fibre Channel (FC) Host Bus Adapters (HBAs). The SN1600Q 32Gb FC HBA is backward compatible

with 16 and 8 Gb FC storage networks and will protect future investments. When using storage intensive applications, such as backup/restore, database transactions, virtualization, and rich media, the increased performance of the 32 Gb infrastructure enables more rapid storage and retrieval of critical information.

The HPE SN1600Q 32Gb Fibre Channel Host Bus Adapters provides a PCIe interface providing a number of features that work together to reduce power consumption, delivering a "green" benefit within the server.

FEATURES

32 Gb High-performance Fibre Channel Host Bus Adapters

The HPE SN1600Q 32Gb Fibre Channel Host Bus Adapters deliver twice the bandwidth of 16 Gb FC HBAs.

More data moved per watt of power consumed when compared to the Generation 5 (16 Gb) FC adapters.

Designed to support emerging Non-Volatile Memory Express (NVMe) over Fibre Channel storage network.

5x efficiency of server investments vs Ethernet based block storage.

High Performance and Enhanced Capability For Critical Workloads and High SLA Environments

The HPE SN1600Q 32Gb Fibre Channel Host Bus Adapters supports for N_Port ID virtualization (NPIV) and industry standards-based Class-specific control (CS_CTL), provides end-to-end quality of service (QoS).

Delivers 32Gbps line rate per physical port, and increases the number of virtual machines (VMs) per each physical HBA Port that can be supported.

Advanced diagnostics capabilities when used in conjunction with HPE B-series FC switches can reduce troubleshooting and downtime with support for features like D-port diagnostics, Link Cable Beacons (LCB), Read Diagnostic Parameters (RDP), enhanced FDMI, FC Ping and FC Trace Route.

Data center administrators do not need to concern themselves with multiple requests from the virtualized servers potentially creating conflict.

Improves host utilization and enhances application performance.

Lower Total Cost of Ownership (TCO)

The HPE SN1600Q 32Gb Fibre Channel Host Bus Adapters allows more data to be moved per watt of power consumed vs. earlier FC generations, improving the power to performance ratio by over 30%.

With support for features like D-port diagnostics, Link Cable Beacons (LCB), Read Diagnostic Parameters (RDP), enhanced FDMI, FC Ping and FC Trace Route, administrators can quickly run a battery of automated diagnostic tests to assess the health of links and fabric components.



PCI Express (PCIe) 3.0 Support

The HPE SN1600Q 32Gb Fibre Channel Host Bus Adapters includes PCIe 3.0 and increases interconnect performance bandwidth by 2x compared to PCIe 2.0.

The PCIe 3.0 encoding scheme reduces overhead by up to 20%.

Technical specifications

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Product Number (SKU)	P9M76A
Compatible operating systems	Red Hat Linux SUSE Linux VMware Microsoft Windows Please visit www.hpe.com/storage/spock for the latest available information on Operating System support



Most, if not all IT organizations are on a digital transformation journey — each at a different stage. With over 11,000 IT projects conducted and 1.4 million customer interactions each year, [HPE Pointnext Services](#)' 15,000+ experts and its vast ecosystem of solution partners and channel partners are uniquely able to help you at every stage of your digital transformation. We bring together technology and expertise to help you drive your business forward and prepare for whatever is next.

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- **[HPE Foundation Care](#)** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more](#).

Other related services

[Defective Media Retention](#) is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

[HPE Service Credits](#) offers a menu of technical services, access additional resources, and specialist skills.

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

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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.

Image may differ from the actual product
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