

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

## Host Adapters



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## 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**

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<b>Product Number</b>	P9M76A
<b>Compatible operating systems</b>	Red Hat Linux SUSE Linux VMware Microsoft Windows Please visit <a href="http://www.hpe.com/storage/spock">www.hpe.com/storage/spock</a> for the latest available information on Operating System support

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

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- IT Training and personal development

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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.

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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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