

# HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter (R2E09A)

## Overview

Are you looking for a high-performance Fibre Channel (FC) adapter for the modern storage area network?

With improvements in server performance, increased virtualization, as well as flash and NVMe storage, the existing storage can become the bottleneck in your environment. The FC host bus adapter (HBA) is a critical element of this storage area network to improve storage performance.

The HPE SN1610Q 32Gb Fibre Channel Host Bus Adapter provides significant I/O performance and security benefits to accelerate databases, host more virtual machines, support emerging technologies such as NVMe and reduce total cost of ownership. It delivers better business outcomes across multiple industry verticals that rely on high performance, safe, and reliable storage connectivity for their storage infrastructure.

## Features

### 32 Gb High-performance Fibre Channel Host Bus Adapters

HPE SN1610Q 32Gb Fibre Channel Host Bus Adapter offers higher bandwidth, better latency, enhanced security, and operational efficiency for 32 GFC storage area networks.

Performance of up to 2 million IOPS and 12,800 Mbps of aggregate throughput.

Simultaneous support for FCP-SCSI and FC-NVMe to make transition from legacy SCSI environments to new NVMe environments seamless.

Higher performance with existing server investments when compared to 16 Gb FC adapters.

More data moved per watt of power consumed when compared to 16 Gb FC adapters.

### High Performance and Enhanced Capability for Critical Workloads and High SLA Environments

HPE SN1610Q 32Gb Fibre Channel Host Bus Adapter supports N\_Port ID virtualization (NPIV), virtual machine ID (VM-ID), and industry standards-based class-specific control (CS\_CTL). These provide end-to-end quality of service (QoS).

Improve database transactional performance, enable faster business decisions with better data mining, and host more VMs.

Port isolation design delivers deterministic and scalable performance on each port.

Provides hardware root of trust to protect against malicious firmware downloads.

Delivers enhanced security via the new secure firmware update feature which protects and ensures the authenticity of device firmware.

### Lower Total Cost of Ownership

HPE SN1610Q 32Gb FC HBA integrates with HPE SmartSAN, HPE Smart Fabric Orchestrator, HPE B-Series, and HPE C-Series switch management platforms, reduces total cost of ownership (TCO) and improves reliability.

Support for Fabric Assigned – World Wide Network (FA-WWN) and Fragment-Based Lead Discovery (F-BLD) provides fabric pre-provisioning services to simplify SAN deployment and orchestration.

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

### PCI Express (PCIe) 4.0 Support

HPE StoreFabric SN1610Q 32Gb Fibre Channel Host Bus Adapter includes PCIe 4.0 and provides better interconnect performance bandwidth when compared to PCIe 3.0.

## Technical specifications

## HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter

<b>Product Number</b>	R2E09A
<b>Bus type</b>	PCIe 4.0
<b>Form factor</b>	2U
<b>Power</b>	12.3W Max -No SFP
<b>Server type supported</b>	HPE ProLiant platforms. Please refer to the Server QuickSpecs for more information.
<b>Compatible operating systems</b>	Red Hat®, Linux® SUSE Linux, VMware®, Microsoft®, Windows®. Visit <a href="http://www.hpe.com/storage/spock">www.hpe.com/storage/spock</a> for the latest available information on Operating System support.
<b>Product dimensions (metric)</b>	68.9 x 167.6 mm
<b>Weight</b>	Dual Port: 120 g
<b>Warranty</b>	Three-year limited warranty, parts exchange next business day delivery. For more warranty information refer to <a href="http://www.hpe.com/storage/warranty">http://www.hpe.com/storage/warranty</a>
<b>Connector type</b>	SFP+



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.

### Consulting services

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

### Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

### Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- 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.

### Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

### HPE Education Services

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.

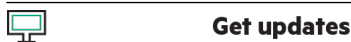
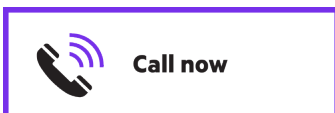
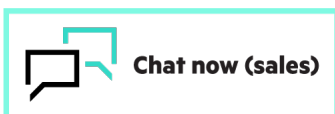
## HPE GreenLake

[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.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

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Contact our presales specialists.

[Call for availability](#)



Explore **HPE GreenLake**



  
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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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