Data sheet

HPE SN1610Q 32Gb Fibre Channel Host Bus Adapter

What's new

- NVMe protocol
- Hardware root of trust
- Improve bandwidth, latency, and I/O performance

Overview

Are you looking for an upgrade path to improve Storage Area Network performance for your ProLiant servers?

The HPE SN1610Q 32Gb Fibre Channel Host Bus Adapter (HBA) provides significant I/O performance and security benefits over existing 16 Gb SAN solutions. Even if the SN1610 is introduced into a new ProLiant server, the Fibre Channel standard enables backward compatibility to 16 Gb infrastructure. Additionally, the HPE SN1610Q 32Gb Fibre Channel HBA is forward compatible to 64 Gb and future speeds. The exponential effect of newer servers and infrastructure helps accelerate databases, host more virtual machines, support emerging technologies such as NVMe, and reduce total cost of ownership. The HBA delivers better business outcomes across multiple industry verticals that rely on high-performance, data-intensive, and reliable connectivity from servers to storage.

Features

32 Gb High Performance Bandwidth, Lower Latency, and Higher Number of I/Os

HPE SN1610Q 32Gb Fibre Channel HBA offers higher bandwidth than older HBAs to allow for faster travel from source to destination targets.

Lower latency enables the transition from one action to the next action transaction. With 32,000,000,000 (billion) bits traveling per second, even small improvements to latency can have large impacts at scale.

Performance up to 2 million IOPS.

Database and Data-Intensive Applications Improved Performance with Fibre Channel.

Fibre Channel is designed to support block-based data structures found in most databases and their associated applications — enterprise resource planning (ERP), reservation systems, financial and insurance, medical, and large virtual server deployments.

The adapter improves database transactional performance, enables faster business decisions with better data mining, and hosts more VMs.

The newer NVMe protocol strips away many of the older, unused SCSI commands and builds a more memory-friendly protocol (think storage arrays with SSDs) offering much lower latency and quicker responses to data transactions

Lower Total Cost of Ownership and Investment Protection

Migrating from 16 Gb HBAs reduces cabling and power consumption while improving overall performance.

SAN design allows component generations to be mixed, meaning older and newer products are automatically supported. If an end-to-end SAN upgrade is not possible, it is possible to upgrade different portions of the SAN to match budgets.

SAN design supports two generations forward compatibility: 32 Gb HBA today would function properly with 64 Gb and 128 Gb components in the future. Future deployments could place high I/O functions on faster-performing products while leaving-lower performing functions on lower-performing products.

Fibre Channel Remains the Most Secure Protocol for Transporting Data

Designed to only transmit data to other Fibre Channel devices on a SAN, the protocol excludes IP addresses removing access from outside entities and vulnerabilities.

Hardware root of trust is built into the HPE SN1610Q 32Gb Fibre Channel HBA that prevents unsigned firmware from being downloaded into the adapter making sure that only secure firmware is downloaded.

Technical specifications	HPE SN1610Q 32Gb Fibre Channel Host Bus Adapter
Data rate	32 Gb per second
Number of ports	Single, Dual
Bus type	PCIe 4.0
Connector type	SFP+
Supported cables	Shortwave, 50 micron, fiber optic up to 100 meters
Server type supported	Most HPE ProLiant DL platforms. See the server QuickSpecs for more information.
Compatible operating systems	Red Hat®, Linux® SUSE Linux, VMware®, Microsoft, Windows. Visit www.hpe.com/storage/spock for the latest available information on Operating System support.
Power	Single Port: 11W Max Dual Port: 15W Max
Compatible array platforms	HPE Alletra storage, HPE Primera, HPE 3PAR family, HPE MSA family, and HPE XP family. Visit www.hpe.com/storage/spock for the latest available information on array support.
Management features	HPE GreenLake SAN Fabric Manager
Warranty	Three-year limited warranty, parts exchange next business day delivery. For more warranty information, visit http://www.hpe.com/storage/warranty
Platform supported	HPE ProLiant ML and DL Gen10 and Gen10 Plus servers HPE ProLiant ML and DL Gen11 Servers HPE Alletra Storage Server 4110 HPE Alletra Storage Server 4120 HPE Alletra Storage Server 4140

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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

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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— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

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For additional technical information, available models and options, please reference the QuickSpecs

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