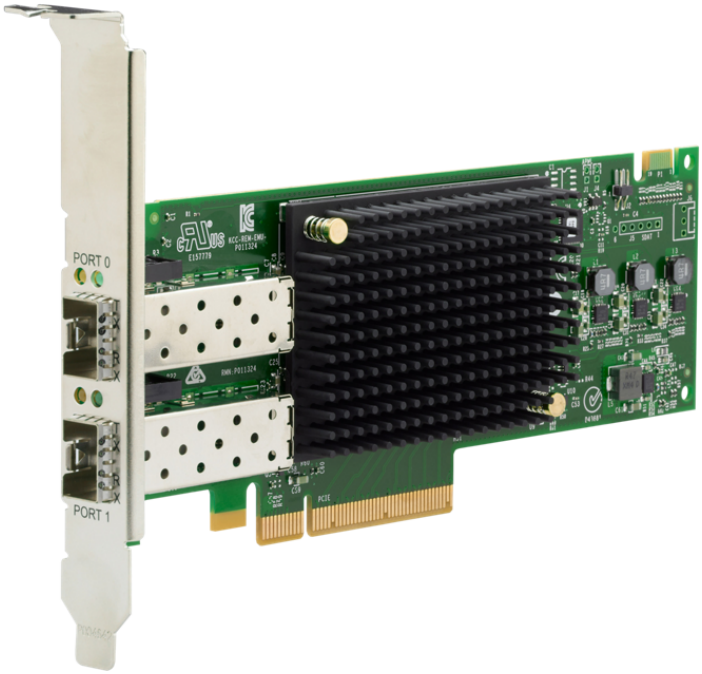
Data sheet

HPE SN1600E 32Gb Fibre Channel Host Bus Adapter

HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter (R2J63A)



What's new

- New HPE SN1620E 32Gb 2-port Fibre Channel Host Bus Adapter.
- Factory installed SPDM certificate that authenticates the adapter is a valid, trusted device on the PCI bus as verified by the ProLiant management utility—HPE iLO.
- Post-quantum cryptography hardware feature to enhance the encryption algorithm generated by the adapter to thwart hacking attempts by future, more powerful quantum computers.

Overview

When your environment has multiple workloads across multiple physical servers, how will you optimize your data?
The HPE SN1620E 32Gb Fibre Channel Host Bus Adapter is the server connection to the Storage Area Network (SAN). Database applications, high volume virtual server configurations and traditional data protection benefit from high bandwidth, low latency, and high I/Os delivered on a SAN. The growth in enterprise flash storage and the deployment of servers with multi-core processors is driving the need for high performance storage networking to prevent application operation gridlocks. The FC host bus adapter (HBA) is a critical element of this storage network to improve storage performance. The HBA offers flexibility and investment protection by supporting two generations of older infrastructure like FC Switches and Directors and two generations of newer infrastructure. This level of

– End-to-end data encryption feature where this HBA can encrypt data in flight to the target device (storage array) helping eliminate the licensing of application-based encryption.

investment protection is critical when the buying cycles of servers and storage differ.

Features

Higher Performance 32Gb Fibre Channel Host Bus Adapter

The HPE SN1620E 32Gb Fibre Channel Host Bus Adapter delivers twice the bandwidth of 16 Gb Fibre Channel Host Bus Adapters while being backward compatible with 16 Gb and 8 Gb FC environments and forward compatible to 64 Gb FC.

The 32 Gb HBA family is compatible with existing storage networking including all 32 Gb Fibre Channel switches and directors plus newer more powerful infrastructure—64 Gb Fibre Channel switches and directors. HBA and Switches/Directors also leverage the FC-NVMe protocol for lower latency.

Higher performance with existing server investments when compared to the 16Gb FC adapters; customers should strive to 'performance match' their infrastructure end-to-end but they also have the option to mix and match as driven by their buying cycles.

Security-Enhanced 32Gb Fibre Channel Host Bus Adapter

A factory-installed certificate assigned and unique to the FC HBA model; the certificate authenticates the adapter is a valid, trusted device on the PCI bus as verified by the HPE ProLiant management utility—HPE iLO. Customers can be more confident that the PCI device is authentic.

With the advent of more powerful quantum computers, Hewlett Packard Enterprise is taking preventative actions to enhance encryption algorithms generated by the adapter. Customers benefit knowing that products purchased today will not be vulnerable to attacks perpetuated by future quantum technology.

The HPE SN1620E encrypts data in flight to the target device (storage array) by implementing the latest Fibre Channel FC-SP3 standard and reduces the complexity and costs of application-based encryption. Unlike application encryption, hardware encryption enables data to be deduped and compression.

Increased Online Transaction Processing (OLTP) and Database Performance

The HPE SN1620E 32Gb Fibre Channel Host Bus Adapter connects the HPE ProLiant to storage networking and centralized to the high performance HPE storage platform.

Databases are structured data that are best served by block storage devices like Fibre Channel HBAs, Fibre Channel switches, and Fibre Channel SAN storage. Combine a high performing ProLiant server with a high performance FC HBA to drive database I/Os.

High levels of bandwidth, I/Os and low latency are paramount to respond time in multiple applications supported by database technology. The HPE SN1620E 32Gb Fibre Channel Host Bus Adapter offers one of the highest levels of performance.

Enhanced Features

The HPE SN1620E 32Gb Fibre Channel Host Bus Adapters are designed to support emerging NVM Express (NVMe) over Fibre Channel storage network.

Provides latest security features that averts unauthorized access to the HBA firmware.

T10 Protection Information (T10-PI) data integrity with high performance hardware offload provides data protection from the server to the storage array.

Technical specifications	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter
Product Number	R2J63A
Platform supported	HPE ProLiant ML and DL Gen11 Servers;HPE Alletra Storage Server 4140;HPE Storage Platforms
Data rate	12,800MBps
Bus type	PCIe
Form factor	Stand up
Power	10.8 Max
Server type supported	ProLiant Gen11 - DL320, DL325, DL345, DL360, DL365, DL380, DL380a, DL385, ML350
Compatible operating systems	Microsoft Windows, Red Hat® Enterprise Linux® (RHEL), SUSE Linux Enterprise Server (SLES), VMware® Use the public HPE link on operating system support at: https://www.hpe.com/us/en/collaterals/collateral.a50010841enw.html
Warranty	3-0-0 Three-year parts exchange warranty. Additional warranty protection can be purchased.
Connector type	SFP
Supported cables	OM3 and OM4 fiber optic, shortware (sw) cable

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

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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.

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

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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.

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.

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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