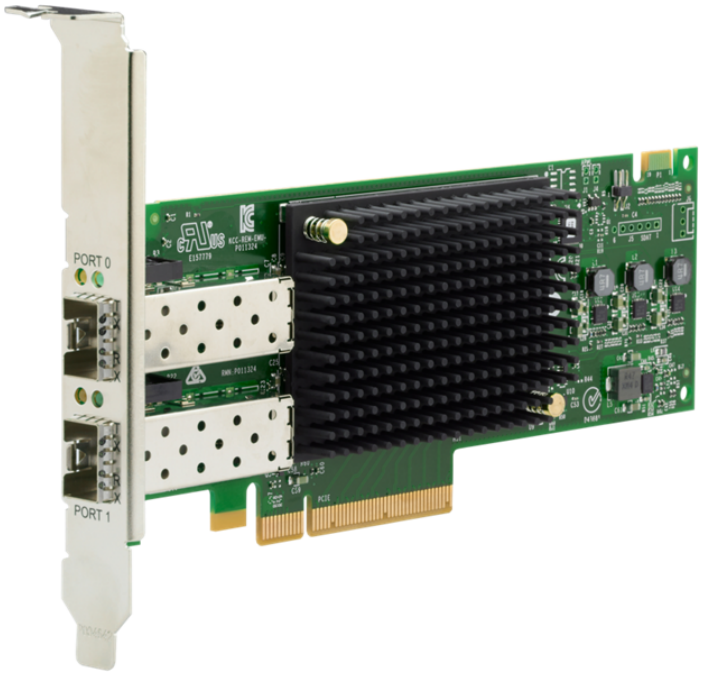
Data sheet

HPE SN1700E 64Gb Fibre Channel Host Bus Adapter

HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter (R7N78A)



What's new

- New HPE SN1720E 64Gb 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

Overview

When server infrastructure may be limiting the performance of the OLTP and database operations, what server upgrades are necessary to address potential performance bottlenecks and achieve more effective results?
The HPE SN1720E 64Gb Fibre Channel Host Bus Adapter is designed for demanding mission-critical workloads and emerging applications. It supports HPE ProLiant, HPE Alletra Storage servers, and HPE Cray / HPE Superdome servers in a Fibre Channel SAN. Compared to the previous generation, the HPE SN1700E FC HBAs offers higher bandwidth, better latency, enhanced security, and operational efficiency for 64GFC. It provides seamless backward

algorithm generated by the adapter to thwart hacking attempts by future, more powerful quantum computers.

– 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.

compatibility to 32GFC and 16GFC networks. When using storage-intensive applications, such as backup/restore, database transactions, virtualization, and rich media, the increased performance of the 64GFC infrastructure enables rapid storage and retrieval of critical information.

Features

Highest Performance End-to-End Infrastructure is 64Gb Fibre Channel

The HPE SN1720E 64Gb Fibre Channel Host Bus Adapter offers higher bandwidth, better latency, enhanced security, and operational efficiency for 64GFC storage area networks.

Databases, applications, and all-flash arrays function at their highest performance with a 64Gb infrastructure serving and retrieving data across the SAN.

Coupling the latest ProLiant server with a 64Gb HBA, 64GB switches, and an HPE Alletra array will drive superior performance for multiple block-based workloads like database, virtual servers, and backup/restore.

Simplified Manageability and Uptime

The HPE SN1720E 64Gb Fibre Channel Host Bus Adapter saves time with non-disruptive firmware updates, queue depth changes, and optics replacements.

A dual path storage networking design improves access to SAN storage and greatly reduces unplanned downtime. The dual path design will reroute data traffic in the event any component failure in the SAN.

The entire ProLiant server ecosystem can be managed by Hewlett Packard Enterprise' award-winning HPE Compute Ops Management.

Protect Your Data

The HPE SN1720E 64Gb Fibre Channel Host Bus Adapter can thwart malicious firmware with a silicon root of trust and digitally signed firmware.

The secure boot offers UEFI boot code security with digitally signed boot code along with an SPDM HBA certificate authenticating the HBA to the ProLiant servers.

The HPE SN1720E 64Gb Fibre Channel Host Bus Adapter can protect the data from corruption using the data integrity field (T10 DIF) and reduce retires with Forward Error Correction.

Technical specifications	HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter
Product Number	R7N78A
Platform supported	HPE ProLiant ML and DL Gen11 Servers;HPE Alletra Storage Server 4140;HPE Storage Platforms
Data rate	64 Gb
Bus type	PCIe Gen4 x 8
Form factor	PCIe
Power	13.3 Watts max
Server type supported	HPE ProLiant platforms, Alletra Storage servers, and Cray/Superdome server families - refer to the server QuickSpecs for more information.
Compatible operating systems	Red Hat®, Linux®, SUSE Linux, VMware®, Microsoft Windows. Use the public HPE link on operating system support at: https://www.hpe.com/us/en/collaterals/collateral.a50010841enw.html
Product dimensions	Single Port: 167.64 x 10.92 x 68.83mm Dual Port: 167.64 x 12.44 x 69.34mm
Weight	Single Port : 0.145 kg Dual Port: 0.125 kg
Warranty	3 year limited warranty, parts exchange, and next business day delivery, for more warranty information refer to https://www.hpe.com/storage/warranty
Connector type	SFP+
Supported cables	OM3 and OM4 shortwave (sw) cables

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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

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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