

# HPE QW971A Datasheet



HPE STOREFABRIC SN1000Q 16GB 1-PORT PCIE FIBRE CHANNEL HOST BUS ADAPTER, 699764-001

QW971A

HPE StoreFabric SN1000Q QW971A 16Gbps Single Port Low Profile PCI Express 3.0 Fibre Channel Host Bus Adapter

HPE StoreFabric SN1000Q 16Gb Host Bus Adapters enable more rapid storage and retrieval of critical information when using high bandwidth cloud applications and storage intensive applications such as backup, database transactions and rich media. Designed for greater virtual machine density and bandwidth requirement environments, the SN1000Q 16Gb HBA enables more applications and virtual machines to run on a single server and port, resulting in reduced cabling and higher return on IT investment. The SN1000Q 16Gb HBA is backward compatible with 8 and 4 Gb storage networks and will protect future investments. With the ability to deliver twice the I/O performance of 8 Gb FC HBAs. The SN1000Q takes Storage Networking performance and efficiency to the next level.

## The Highest Performing Fibre Channel Host Bus Adapters

The HPE StoreFabric SN1000Q 16Gb Host Bus Adapters deliver twice the I/O performance of 8 Gb Fibre Channel HBAs. Moving to 16 Gb technology provides the infrastructure required for the more powerful servers and data intensive applications of the future. When using storage intensive applications like backup/restore, database transactions, virtualization and rich media, the improved I/O performance enables faster storage and retrieval of data.

## Best Fibre Channel Host Bus Adapters for Virtualization

Ideal for the implementation of virtual servers with the power to drive multiple virtual machines. Allows a single port to acquire multiple N Port IDs, eliminating the need for additional physical ports. Datacenter administrators do not need to concern themselves with multiple requests from the virtualized servers potentially creating conflict. Improves host utilization and enhances application performance.

## Next Generation Host Bus Adapters with Improved IOPS Performance per Watt

Power savings result in lower operating expenditure.

The HPE StoreFabric SN1000Q QW971A Low Profile Host Bus Adapters provide Fibre Channel connectivity. Data transfer rate 16 Gbps data Fibre Channel transfer rates are well-suited for enterprise network and storage device connections. The QW971A is a single port unit with a Low-Profile PCI Express form factor Host Bus Adapter and it comes with 3 Years Warranty.

## Specifications

- Brand: HPE
- MPN: QW971A
- Option Part Number: QW971A
  
- Spare Part Number: 699764-001

## General

- Device Type: Host Bus Adapter
- Form Factor: Plug-in Card - Low Profile
- Interface (Bus) Type: PCI Express 3.0 x4

## Networking

- Ports: 16Gb Fibre Channel x 1
- Port Speed: 16 Gbps
- Slot Type Supported: PCI Express 3.0 to Fibre Channel
- Media: Multi-Mode Optic (SFP+)
- Connector: Short Wave laser with Lucent Connector (LC)
- PCIe Connector: PCIe 3.0 x4
- Auto-Negotiation: 16/8/4 Gbps
- Connectivity Technology: Wired
- Cabling Type: Fiber Optic
- Data Link Protocol: 16Gb Fibre Channel (Short Wave)
- Data Transfer Rate: 16 Gb/sec
- Features: Auto-Negotiation

## Expansion / Connectivity

- Compatible Slots: 1 x PCI Express 3.0 x4
- Expansion Slots: 2 (total) / 0 (free) x SFP+
- Interfaces: 1 x 16Gb Fibre Channel (Short Wave) - LC multi-mode - x 2

## Software / System Requirements

- Compatible Operating Systems: Microsoft Windows, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise

Server (SLES), VMware, Microsoft Windows Hyper-V

## Miscellaneous

- Included Accessories: Low-Profile Bracket, Full-Height Bracket, 2 x 16Gb SFP+

## Product Dimensions & Weight

- Width: 4.69 inch (119.00 mm)
- Depth: 6.63 inch (168.00 mm)
- Height: 0.63 inch (16.00 mm)
- Weight: 2.50 lbs

## Environmental Specifications

- Operating Temperature: 0° to 55°C (32° to 131°F)
- Storage Temperature: -20° to 70°C (-4° to 158°F)
- Operating Relative Humidity: 10% to 90% at 40°C (104°F), non-condensing

## Compatibility

- HPE Modular Smart Array 2040 SAS Dual Controller LFF Storage
- HPE ProLiant DL Series: DL360e Gen8, DL360e Gen8 Base, DL360e Gen8 Entry, DL360e Gen8 Performance, DL360e Gen8 Special Server, DL360p Gen8, DL360p Gen8 Base, DL360p Gen8 CMS, DL360p Gen8 Entry, DL360p Gen8 High Performance, DL380 G7, DL380 G7 Base, DL380 G7 Efficiency, DL380 G7 Entry, DL380 G7 Performance, DL380 G7 Special Server, DL380e Gen8, DL380e Gen8 Base, DL380e Gen8 Entry, DL380e Gen8 High Performance, DL380e Gen8 Storage, DL380p Gen8, DL380p Gen8 Base, DL380p Gen8 Entry, DL380p Gen8 High Performance, DL380p Gen8 Special, DL385 G7, DL385 G7 Base, DL385 G7 Entry, DL385 G7 HE, DL385 G7 Performance, DL385p Gen8, DL385p Gen8 Dedicated Workload, DL385p Gen8 Entry, DL385p Gen8 Maximized

Consolidation, DL385p Gen8 Storage, DL385p Gen8 Storage Centric, DL580 G7, DL580 G7 Base, DL580 G7 High Performance

- HPE ProLiant ML Series: ML350p Gen8, ML350p Gen8 Base, ML350p Gen8 Entry, ML350p Gen8 Performance
- HPE StoreEasy 3850 Gateway Single Node
- Servers Supported: HPE ProLiant Platforms

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