

Overview

HPE Integrity 16Gb Fibre Channel Host Bus Adapters

The HPE Integrity 16Gb Host Bus Adapters are designed to support Integrity Servers with PCI-Express I/O slots to connect to HPE Storage Arrays using the 16/8/4 Gb Fibre Channel protocol.

The HPE Integrity 16Gb Host Bus Adapters bring datacenter infrastructure components to a higher level of performance and efficiency with the ability to deliver twice the I/O performance of 8Gb HBAs. A 16Gb FC HBA purchased today is backward compatible with 8 and 4 Gb storage networks and will protect future investments. When using storage intensive applications, such as backup/restore, database transactions, virtualization, and rich media, the increased performance of the 16 Gb infrastructure enables more rapid storage and retrieval of critical information. Designed for environments with greater virtual machine density and bandwidth requirements, the 16Gb HBAs enable more applications and VMs to run on a single server and Fibre Channel port, resulting in reduced cabling and a higher return on IT investment.

What's New

- HPE Integrity SN1000Q Single Port 16GB Fibre Channel Host Bus Adapter
- HPE Integrity SN1000Q Dual Port 16GB Fibre Channel Host Bus Adapter

Key Features and Benefits

Performance	Delivers twice the data throughput (MB/s) compared to 8Gb FC HBAs <ul style="list-style-type: none">• High link speed allows larger data block sizes to be moved in lesser time resulting in improved application performance
Support for greater Server Virtualization	Ideal for high density server virtualization environments <ul style="list-style-type: none">• Enables more applications and VMs to run on a single server and Fibre Channel port, resulting in reduced cabling and a higher return on IT investment
Provides HPE Integrity Connectivity to Storage And Network	Robust interoperability testing <ul style="list-style-type: none">• Provides an HPE-branded HBA solution which has undergone extensive HPE interoperability testing for connecting HPE Integrity servers into storage and networking environments.• Optimal for connecting to The HPE 16Gb FC edge/core network switches.
Improved IOPS performance per watt	Power savings result in lower Operating expenditure

Notes: Both the cards will support NPIV.

Models

Models

	Description	Part Number
Single Port	HPE Integrity SN1000Q 1-port 16Gb Fibre Channel Host Bus Adapter	B9F23A
Dual Port	HPE Integrity SN1000Q 2-port 16Gb Fibre Channel Host Bus Adapter	B9F24A



Service and Support

HPE Pointnext - Service and Support

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- Get faster time to market
- Save on TCO, align costs to business
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Free up resources with Operational Services from HPE Pointnext Services

HPE delivers services for IT by using proven best practices as well as automation and methodologies that have been tested and refined by HPE experts and artificial intelligence through thousands of deployments globally. Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller. Services are quoted using Hewlett Packard Enterprise order configuration tools.

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<https://www.hpe.com/services/techcare>

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HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

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Support Services and Warranty Information

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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.

Defective Media Retention

An option available with HPE Pointnext Complete Care and HPE Pointnext Tech Care and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

For more information

- www.hpe.com/services
- <https://www.hpe.com/us/en/services/operational.html>

To learn more on HPE Storage Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

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 - Customers purchasing from a commercial reseller can find HPE Support Services at <https://ssc.hpe.com/portal/site/ssc/>
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Technical Specifications

	HPE Integrity SN1000Q 2-port 16Gb Fibre Channel Host Bus Adapter	B9F24A
Number of channels	Single	Dual
Port Speed	16 Gbps	16 Gbps
Slot type supported	PCI Express 2.0 to Fibre Channel	PCI Express 2.0 to Fibre Channel
Supported OS	HPE UX	HPE UX
Servers Supported		
Array Platforms Supported		
What's Included in the Box?	16 Gbps HBA with standard bracket, one 16 Gbps SFP+, low-profile bracket, documentation	16 Gbps HBA with standard bracket, two 16 Gbps SFP+, low-profile bracket, documentation
Environmental - Operating Temperature	32° F to 131° F (0° C to 55° C)	32° F to 131° F (0° C to 55° C)
Environmental - Storage Temperature	-4° F to 158° F (-20° C to 70° C)	-4° F to 158° F (-20° C to 70° C)
Environmental - Relative Humidity - Operating	15% to 80% RH at 40° C (non-condensing)	15% to 80% RH at 40° C (non-condensing)
Product Dimensions (W x D x H)	6.63 x 0.63 in. (119 x 168 x 16mm)	6.63 x 0.63 in. (119 x 168 x 16mm)
Media	Multi-mode Optic (SFP+)	Multi-mode Optic (SFP+)
Connector	Short wave laser with LC type connector	Short wave laser with LC type connector
PCIe Connector	PCIe 2.0 x8	PCIe 2.0 x8
Auto-negotiation	16/8/4 Gbps	16/8/4 Gbps
Brackets	Shipped with both ½ height and full-height brackets	Shipped with both ½ height and full-height brackets



Summary of Changes

Date	Version History	Action	Description of Change
15-Nov-2021	Version 7	Changed	Service and Support Pointnext Tech Care and Complete Care information updated
23-Oct-2017	Version 6	Added	Care Pack naming and Service and Support- Parts and Materials updated.
21-Oct-2016	From Version 4 to 5	Changed	Rebranding edition.
29-Sep-2014	From Version 3 to 4	Changed	Changes were made throughout the QuickSpecs.
11-Apr-2014	From Version 2 to 3	Changed	Technical Specifications section was revised.
31-Jan-2014	From Version 1 to 2	Changed	Model descriptions were revised.
30-Sep-2013	Version 1	New	QuickSpecs created



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