Overview

The HP 4Gb PCI-Express Fibre Channel Host Bus Adapters (HBAs) support customers using HP ProLiant servers with PCIe I/O slots running a broad range of operating systems. These Fibre Channel HBAs are second generation products that support this new higher speed I/O bus architecture and provide customers the ability to use it to connect to their HP arrays.

For supported Fibre Channel SAN Switches, please consult the SAN Design Reference Guide at the following URL: http://h18006.www1.hp.com/products/storageworks/san/documentation.html

Models Brocade		
HP 41B 4Gb PCle FC HBA	Description HP Single Channel 4Gb PCIe Fibre Channel Host Bus Adapter	Part Number AP767A
HP 42B 4Gb Dual-Port PCle FC HBA	HP Dual Channel 4Gb PCle Fibre Channel Host Bus Adapter	AP768A
Emulex HP FC2142SR 4Gb PCIe HBA	HP Single Channel 4Gb PCIe Fibre Channel Host Bus Adapter	<mark>A8002A</mark>
HP FC2242SR Dual Channel 4Gb PCIe HBA	HP Dual Channel 4Gb PCIe Fibre Channel Host Bus Adapter	A8003A
QLogic HP FC1142SR 4Gb PCIe HBA	HP Single Channel 4Gb PCIe Fibre Channel Host Bus Adapter	AE311A
HP FC1242SR Dual Channel 4Gb PCle HBA	HP Dual Channel 4Gb PCIe Fibre Channel Host Bus Adapter	AE312A

What's New

• Updated support for the 4Gb FC HBAs



Overview

At A Glance

Industry leading PCI-Express based solutions for Fibre Channel

- Agility: Adds 4Gb PCI Express single and dual channel I/O connectivity to HP storage arrays.
- Throughput: 4 Gbps FC increases aggregate throughput rate to 800 MBps per channel in full-duplex mode.
- Performance: PCI-Express host bus interface for high throughput applications.
- High Transfer Rate: Minimum 150,000 IOPS per channel delivers high I/O transfer rates for storage applications.
- Management: Enterprise wide management capabilities.

Warranty

3-0-0 Three-year parts exchange warranty. Additional warranty protection can be purchased.

HP Global Services provides a three-year, limited warranty, fully supported by a worldwide network of resellers and service providers toll-free 7 x 24 hardware technical phone support for the duration of the warranty. In addition, available service offerings include a full range of HP Care Pack packaged hardware and software services.

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.



Service and Support, HP Care Pack, and Warranty Information

HP Care Pack Services. Scalable, Flexible, Dependable. Like your storage.

Your storage is evolving. Get scalable support that evolves with it. HP Care Pack Services is an easy-to-buy, easy-to-use portfolio of packaged services covering your lifecycle needs. You can rely on our highly skilled, HP certified professionals to offer a breadth of expertise across leading storage technologies, and work side by side with you for optimal results. Partner with HP Technology Services to boost availability and avoid costly downtime by mitigating technology-related business risks. To help take the worry out of deploying, supporting and managing your storage technologies, we've designed a portfolio of service options that are as flexible, scalable and affordable as our storage.

Protect your business beyond the warranty

Standard warranty protects against product defects and some causes of downtime. HP Care Pack Services helps you proactively guard against unplanned downtime which can reduce your productivity and profitability. By using a standard approach to warranty uplifts, such as HP Care Pack Services, customers can be certain of consistency of operations for both mission-critical and standard business computing.

Extending warranties with HP Care Pack Services

The key to normalizing the warranty of combined solutions-is making service uplift simple: HP Care Pack Services. This portfolio of predefined packages, extending across the entire IT lifecycle, offering consulting, education, technical support, optimization, risk assessment, and more. It's entirely flexible allowing customers to extend the cover to the precise level of support required. Customer's standard hardware warranty, for example, can be upgraded to next-business-day response, to same-day coverage, or even to a committed six-hour call-to-repair service available 24 hours every day of the week.

Provide consistent, predictable levels of support across your entire department or business

Give you direct access to proven technical and problem-solving expertise Offer a choice of response-time and repair-time commitments Are available whenever and wherever you do business

For many products, post-warranty HP Care Pack Services are available when your original warranty has expired. Choose the support levels that meet your business requirements, from basic to mission-critical. In the new world of business technology, when your technology has to work for your business to work, who can you trust to make your technology work? HP Technology Services, the trusted business technology experts who manage your technology in action, because when technology works, business works. http://www.hp.com/hps/storage

NOTE: Care Pack Services availability may vary by product and country.



Service and Support, HP Care Pack, and Warranty Information

Recommended Services HP Care Pack Services recommended for optimal satisfaction of all deployments of your product. 3-Year HP Support Plus 24 HP Host Bus Adapters (HBA) take on the support level of the HP server in for HP Host Bus Adapters which it is installed. (HBA) For HBA's installed outside of an HP environment: 3-Year HP Support Plus 24 For a higher return on your storage investment, HP Support Plus 24 provides integrated hardware and software support services designed specifically for your technology. Available 24x7, this 3-year combined reactive support option delivers onsite hardware support and over-the-phone software support around-the-clock. Leverage the full strength of HP Technology Services -

> customers can trust the services professionals at HP to work collaboratively with them, putting our strategic and technical know-how to work across their entire infrastructure. HP Install Storage HBAs For customers purchasing HBA as an add-on to existing HP Server or for

SVC installation into a non-HP server, HP Hardware Installation provides initial hardware installation of your product into your technology environment (System configuration is not included)

Product Number	Product Name	Service Name	Care Pack Services Product #	Alternate Care Pack Services Product #
NOTE: HP Host Bus Adap	· · · · · ·	1 I I I I I I I I I I I I I I I I I I I		

N support of an HP HBA in a non-HP Server, the following services are recommended:

AP7	767A	HP 41B PCle 4Gb FC Single Port HBA	3-Year HP Support Plus 24	HA110A3-8D4
AP7	768A	HP 42B PCIe 4Gb FC Dual Port HBA	3-Year HP Support Plus 24	HA110A3-8D4
AE3	311A	HP FC1142 4Gb PCle HBA	3-Year HP Support Plus 24	HA110A3-8D4
AE3	312A	HP FC1242 Dual Channel 4Gb PCle HBA	3-Year HP Support Plus 24	HA110A3-8D4
A80)02A	HP FC2142 4Gb PCle HBA	3-Year HP Support Plus 24	HA110A3-8D4
A80	003A	HP FC2242 Dual Channel 4Gb PCIEe HBA	3-Year HP Support Plus 24	HA110A3-8D4

NOTE: Installation is included with Server install if purchased together. If HBA is ordered as an add-on to existing HP Server or for installation into a non-HP Server, the following service is recommended:

> HP Install Storage HA113A1-527 U6305E HBAs SVC



Service and Support, HP Care Pack, and Warranty Information

eSupport	HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.				
	Support Portal The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.				
	Features include:				
	 Access to self-solve tools (including search technical knowledge base) Efficient logging and tracking of support cases Collaboration with other business and IT professionals Download of patches and drivers Access to diagnostic tools Proactive notification of relevant information 				
	Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit: http://www.hp.com/support				
Customer Technical Training	Consider education as an integral part of your strategy to get the best return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking, archiving and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to on-site training customized to your needs or online. www.hp.com/learn/storage				
HP Services Awards	HP Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction. For a list of all our awards, please visit: http://h20219.www2.hp.com/services/cache/433028-0-0-225-121.html				
Additional Services Information	For more information about HP Care Pack Services for Storage, please visit: http://www.hp.com/hps/storage				
	If you have specific questions, contact your local HP representative. Contact information for a representative in your area can be found at "Contact HP" http://www.hp.com				



Technical Specifications

		Family C	omparison T	able		
	41B/AP767A	42B/AP768A	FC2142SR / A8002A	FC2242SR / A8003A	FC1142SR / AE311A	FC1242SR / AE312A
Number of channels	Single	Dual	Single	Dual	Single	Dual
Port Speed	4 Gbps	4 Gbps	4 Gbps	4 Gbps	4 Gbps	4 Gbps
Slot type supported	PCI Express to Fibre Channel	PCI Express to Fibre Channel	PCI Express to Fibre Channel	PCI Express to Fibre Channel	PCI Express to Fibre Channel	PCI Express to Fibre Channel
OS Supported NOTE: Always refer to t specific product support		of Connectivity Kr	nowledge for HP S	torage Products at	: www.hp.com/stc	prage/spock for
Windows Server 2003	x86, x64, R2	x86, x64, R2	x86, x64, IA64, R2	x86, x64, IA64, R2	x86, x64, R2	x86, x64, IA64, R2
Windows Server 2008	x86, x64, R2	x86, x64, R2	x86, x64, IA64, R2	x86, x64, IA64, R2	x86, x64, R2	x86, x64, IA64, R2
VMware 3.5	U4/U5	U4/U5	U4/U5	U4/U5	U4/U5	U4/U5
VMware 4.0	YES	YES	YES	YES	YES	YES
VMware 4.1	YES	YES	YES	YES	YES	YES
RHEL 4	N/A	N/A	x86, x64, IA64	x86, x64, IA64	x86, x64	x86, x64, IA64
RHEL 5	x86, x64	x86, x64	x86, x64, IA64	x86, x64, IA64	x86, x64	x86, x64, IA64
SLES 10	x86, x64	x86, x64	x86, x64, IA64	x86, x64, IA64	x86, x64	x86, x64, IA64
SLES 11	x86, x64	x86, x64	x86, x64, IA64	x86, x64, IA64	x86, x64	x86, x64, IA64
Solaris 10 x86	N/A	N/A	x86	x86	x86	x86
	Always r		gle Point of Conne prage/spock for sp			oducts at:
Servers Supported	N		HP ProLiant G7, C ver QuickSpecs fo			ıs.
Array Platforms Supported	EVA:	EVA:	EVA:	EVA:	EVA:	EVA:
Sophoned	EVA4x00 EVA4400s EVA6x00 EVA8x00	EVA4x00 EVA4400s EVA6x00 EVA8x00	EVA4x00, EVA4400s EVA6x00, EVA8x00	EVA4x00, EVA4400s EVA6x00, EVA8x00	EVA4x00, EVA4400s EVA6x00, EVA8x00	EVA4x00, EVA4400s EVA6x00, EVA8x00
	XP:	XP:	XP:	XP:	XP:	XP:
		XP10000/12000 XP20000/24000 P9500	XP10000/12000			XP128/1024 XP10000/12000 XP20000/24000 P9500
	MSA:	MSA:	MSA:	MSA:	MSA:	MSA:
	MSA2000fc P2000 G3	MSA2000fc P2000 G3	MSA1000 MSA1500 MSA2000fc P2000 G3	MSA1000 MSA1500 MSA2000fc P2000 G3	MSA1000 MSA1500 MSA2000fc P2000 G3	MSA1000 MSA1500 MSA2000fc P2000 G3



HP 4Gb PCle Fibre Channel Host Bus Adapters

Environmental - Operating Temperature	32° to 122° F (0° to 50° C) (dry bulb)	32° to 122° F (0° to 50° C) (dry bulb)	<mark>32° to 113° F</mark> (0° to 45° C)	32° to 113° F (0° to 45° C)	32° to 131° F (0° to 55° C)	32° to 131° F (0° to 55° C)
Environmental - Storage Temperature	-40° F to 163° F (-43° to 73° C) (dry bulb)	-40° F to 163° F (-43° to 73° C) (dry bulb)	<mark>-4 ° to 158° F</mark> (-20° to 70° C)	-4 ° to 158° F (-20° to 70° C)	-20° to 158° F (-4° to 70° C)	-20° to 158° F (-4° to 70° C)
Environmental - Relative Humidity - Operating	5% to 93% (relative, non- condensing)	5% to 93% (relative, non- condensing)	5% to 95% non- condensing	5% to 95% non- condensing	5% to 95% non- condensing	10% to 90% non-condensing
Product Dimensions (HxW)	1.63 x 6.5 in (43 x 165 mm)	1.63 x 6.5 in (43 x 165 mm)	<mark>6.60 x 2.54 in</mark> (167.64mm x 64.4 mm)	6.60 x 2.54 in (167.64mm x 64.4 mm)	6.60 x 2.54 in (167.64 x 64.4 mm)	6.60 x 2.54 in (167.64 x 64.4 mm)
Media	Multi-mode Optic	Multi-mode Optic	Multi-mode Optic	Multi-mode Optic	Multi-mode Optic	Multi-mode Optic
Connector	Short wave laser with LC type connector					
Brackets	Shipped with both ½ height and full-height brackets					

Technical Specifications

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The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

