

### Overview

### Models

<b>HP StorageWorks FC2143 4Gb PCI-X 2.0 HBA</b>	StorageWorks 4Gb, PCI-X-to-Fibre Channel Host Bus Adapter for Windows and Linux. (Emulex LP1150)	AD167A
<b>HP StorageWorks FC2243 Dual Channel 4Gb PCI-X 2.0 HBA</b>	StorageWorks Dual Channel 4Gb, PCI-X-to-Fibre Channel Host Bus Adapter for Windows and Linux (Emulex LP11002)	AD168A
<b>HP StorageWorks FC1143 4Gb PCI-X 2.0 HBA</b>	StorageWorks 4Gb, PCI-X-to-Fibre Channel Host Bus Adapter for Windows and Linux (Qlogic QLA2460)	AB429A
<b>HP StorageWorks FC1243 Dual Channel 4Gb PCI-X 2.0 HBA</b>	StorageWorks Dual Channel 4Gb, PCI-X-to-Fibre Channel Host Bus Adapter for Windows and Linux (Qlogic QLA2462)	AE369A

### Product Description

The 4Gb PCI-X Fibre Channel Host Bus Adapter Family consists of single and dual channel Host Bus Adapters (HBAs) with an optical LC type connector. These HBAs are provided by Qlogic and Emulex and are qualified for ProLiant and Integrity platforms configured with the Enterprise Virtual Array 3000, 4000, 5000, 6000 and 8000, MSA1000, MSA1500, and XP array offerings.

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

### Key Features

- 4Gb/s Fibre Channel link speed support
- PCI-X 2.0 mode 2, 266 MHz bus compatibility and extended high-availability support with ECC.
- Compatible with PCI 33/66 (3.3V signaling) and PCI-X 66/100/133 MHz slots
- Automatic speed negotiation with existing 1Gb/s and 2Gb/s Fibre Channel SANs
- Superior performance capable of sustaining up to 100,000 I/Os per second per channel
- 4-Gbps FC increases aggregate throughput rate to 1.6GBps in full-duplex mode
- Full fabric support with automatic topology and speed adaptation
- Full support for both FC service Class 2 and 3
- Support FC-Tape devices
- RoHS compliance
- HBAware from Emulex and Qlogic SANsurfer FC HBA Manager for centralized management and remote control of distributed HBAs

### Benefits At a Glance

- Higher performance with lower price
- Supports the Windows and Linux operating environments
- Provides the flexibility and broad interoperability need for complex highly scalable SANs

### Family Comparison Table

	FC2143	FC2243	FC1143	FC1243
<b>Number of channels</b>	Single	Dual	Single	Dual
<b>Port Speed</b>	4 Gb	4 Gb	4 Gb	4 Gb
<b>Slot type supported</b>	PCI-X 2.0 to Fibre Channel	PCI-X 2.0 to Fibre Channel	PCI-X 2.0 to Fibre Channel	PCI-X 2.0 to Fibre Channel

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<b>OS Supported</b>	Microsoft Windows 2000	Microsoft Windows 2000	Microsoft Windows 2000	Microsoft Windows 2000	
	Microsoft Windows Server 2003	Microsoft Windows Server 2003	Microsoft Windows Server 2003	Microsoft Windows Server 2003	
	Microsoft Windows Server 2003 64-Bit Edition	Microsoft Windows Server 2003 64-Bit Edition			
	Microsoft Windows Server 2003 for 64-bit Extended Systems	Microsoft Windows Server 2003 for 64-bit Extended Systems	Microsoft Windows Server 2003 for 64-bit Extended Systems	Microsoft Windows Server 2003 for 64-bit Extended Systems	
	Red Hat Enterprise Linux 3 (AMD64/EM64T)	Red Hat Enterprise Linux 3 (AMD64/EM64T)	Red Hat Enterprise Linux 3 (AMD64/EM64T)	Red Hat Enterprise Linux 3 (AMD64/EM64T)	
	Red Hat Enterprise Linux 3 (x86)	Red Hat Enterprise Linux 3 (x86)	Red Hat Enterprise Linux 3 (x86)	Red Hat Enterprise Linux 3 (x86)	
	Red Hat Enterprise Linux 4 (AMD64/EM64T)	Red Hat Enterprise Linux 4 (AMD64/EM64T)	Red Hat Enterprise Linux 4 (AMD64/EM64T)	Red Hat Enterprise Linux 4 (AMD64/EM64T)	
	Red Hat Enterprise Linux 4 (Itanium)	Red Hat Enterprise Linux 4 (Itanium)			
	Red Hat Enterprise Linux 4 (x86)	Red Hat Enterprise Linux 4 (x86)	Red Hat Enterprise Linux 4 (x86)	Red Hat Enterprise Linux 4 (x86)	
	SUSE LINUX Enterprise Server 8	SUSE LINUX Enterprise Server 8	SUSE LINUX Enterprise Server 8	SUSE LINUX Enterprise Server 8	
	SUSE LINUX Enterprise Server 8 (AMD64)	SUSE LINUX Enterprise Server 8 (AMD64)	SUSE LINUX Enterprise Server 8 (AMD64)	SUSE LINUX Enterprise Server 8 (AMD64)	
	SUSE LINUX Enterprise Server 9 (AMD64/EM64T)	SUSE LINUX Enterprise Server 9 (AMD64/EM64T)	SUSE LINUX Enterprise Server 9 (AMD64/EM64T)	SUSE LINUX Enterprise Server 9 (AMD64/EM64T)	
	SUSE LINUX Enterprise Server 9 (Itanium)	SUSE LINUX Enterprise Server 9 (Itanium)			
	SUSE LINUX Enterprise Server 9 (x86)	SUSE LINUX Enterprise Server 9 (x86)	SUSE LINUX Enterprise Server 9 (x86)	SUSE LINUX Enterprise Server 9 (x86)	
	VMware V2.5.4 and later V3.0 and later	VMware V2.5.4 and later V3.0 and later	VMware V2.5.4 and later V3.0 and later	VMware V2.5.4 and later V3.0 and later	
	<b>Servers Supported</b>	HP ProLiant platforms HP Integrity platforms	HP ProLiant platforms HP Integrity platforms	HP ProLiant platforms HP Integrity platforms	HP ProLiant platforms
		<b>Array Platforms Supported</b>	EVA3000, EVA4x00, EVA5000, EVA6x00, EVA8x00, XP Disk Arrays, MSA1000, MSA1500	EVA3000, EVA4x00, EVA5000, EVA6x00, EVA8x00, XP Disk Arrays, MSA1000, MSA1500	EVA3000, EVA4x00, EVA5000, EVA6x00, EVA8x00, XP Disk Arrays, MSA1000, MSA1500
	<b>Environmental - Operating Temperature</b>		32° to 131° F (0° to 55° C)	32° to 131° F (0° to 55° C)	32° to 113° F (0° to 45° C)

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<b>Environmental - Storage Temperature</b>	-20° to 158° F (-4° to 70° C)	-20° to 158° F (-4° to 70° C)	-40° to 158° F	-40° to 158° F
<b>Environmental - Relative Humidity - Operating</b>	10% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing
<b>Product Dimensions (HxW)</b>	6.7 x 2.5 in (16.93 cm x 5.15 cm)	6.7 x 2.5 in (16.93 cm x 5.15 cm)	6.60 x 2.54 in (167.64mm x 64.4 mm)	6.60 x 2.54 in (167.64mm x 64.4 mm)
<b>Media</b>	Multi-mode Optic	Multi-mode Optic	Multi-mode Optic	Multi-mode Optic
<b>Connector</b>	Short wave laser with LC type connector	Short wave laser with LC type connector	Short wave laser with LC type connector	Short wave laser with LC type connector
<b>Brackets</b>	Shipped with both ½ height and full-height brackets	Shipped with both ½ height and full-height brackets	Shipped with both ½ height and full-height brackets	Shipped with both ½ height and full-height brackets

For additional technical specifications go to <http://saw.cce.hp.com/km/saw/home.do> (HP employees and partners only)

### 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

#### Software Product Services

Stand-alone telephone support  
Rights to new license  
Media and documentation updates

#### Hardware Product Services

Installation services  
On-site maintenance (includes warranty support)  
Response time upgrades during the warranty period  
Post-warranty coverage  
RAID setup and performance consulting via statement of work  
For additional hardware installation and maintenance information, please refer to the URL listed below:  
<http://www.hp.com/hps/hardware/>

#### Warranty Upgrade Options

Response - Upgrade on-site response from next business day to same day 4 hours  
Coverage - Extend hours of coverage from 9 hours x 5 days to 24 hours x 7 days  
Duration - Select duration of coverage for a period of 1, 3, or 5 years  
Additional Warranty protection and/or HP Installation packages can be purchased.

#### HP Care Pack Information and Installation Services

Sample part numbers:

3 year, uplift to 5 x 9, Next Day Response	FM-**XHW-36
3 year, uplift to 5 x 9, 4-hour Response	FM-**4HR-36
3 year, uplift to 7 x 24, 4-hour Response	FM-**724-36
Hardware Installation	FM-**INS-IN

\*\* Represents a two-digit, product-specific code

HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.

HP Care Pack is not available for less than the product's warranty duration.

HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.

HP Care Pack services are prepaid.

If ordering this HBA for a non-HP server, manually add package band 8D4 and Installation HA113A1 band 527. If ordering this HBA as an add-on to an existing HP server, manually add Installation HA113A1 band 527.

For additional HP Care Pack (hardware & software) information, as well as orderable part numbers, please refer to the URL <http://www.hp.com/hps/carepack/>

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

### *Service and Support, HP Care Pack and Warranty Information*

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