

### Overview

### Models

	Description	Part Number
HP StorageWorks FC2143 4Gb PCI-X 2.0 HBA	StorageWorks Single Channel 4Gb, PCI-X-to-Fibre Channel Host Bus Adapter for Windows.	AD167A
HP StorageWorks FC2243 4Gb PCI-X 2.0 DC HBA	StorageWorks Dual Channel 4Gb, PCI-X-to-Fibre Channel Host Bus Adapter for Windows.	AD168A

### Product Description

The Emulex PL1150 is a single port 4 Gb Fibre Channel Host Bus Adapter (HBA), which also supports auto speed negotiation to perform I/O with 2 Gb and 1 Gb devices in the SAN.

The Emulex LP11002 is a dual port, 4 Gb Fibre Channel Host Bus Adapter which also supports auto speed negotiation to perform I/O with 2 Gb and 1Gb devices in the SAN.

Operating system support for these HBAs is Windows & Linux

These HBAs are qualified for ProLiant & Integrity platforms configured with the Enterprise Virtual Array 3000, 4000, 5000, 6000 and 8000, MSA1000, MSA 1500, 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

- 4 Gbps Fibre Channel link speed support
- Automatic speed negotiation with existing 1Gb/s and 2 Gb/s Fibre Channel SANs
- Superior performance capable of sustaining greater than 170,000 I/Os per second per channel (total, both ports) depending on a server's processor and I/O capabilities.
- 4-Gbps FC increases aggregate throughput in excess of 1300 Mbytes per second depending on a server's processor and I/O capabilities (total, both ports).
- 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.
- Simultaneous on-board support for Windows remote boot in X86, x64 and Itanium (BootBIOS and EFI).
- Powerful frame level multiplexing, the best choice for mixed workload applications.
- On-board hardware context cache for superior fabric support and high transaction performance.
- Firmware-upgradeable architecture: update HBA features and functionality, preserve investment value.
- Hardware-independent drivers ease management and allow driver upgrade independent of HBA firmware.
- Simple and easy management with HBAnyware™ software - web downloadable.
- End-to-end data path parity and CRC checking, including internal RAM data paths.
- Local memory ECC protection; single bit correction and double bit protection.
- Advanced built in test features-> Boundary scan and Built In Self Test (BIST) for internal RAMs.
- RoHS compliant.

### Benefits At a Glance

- Higher performance with lower price
- Supports the Windows & Linux operating environments
- Provides the flexibility and broad interoperability need for complex highly scalable SANs
- These HBAs as well as all other Emulex HBAs in the SAN are managed through a single interface: HBAnyware.

## Overview

### 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** Standalone telephone support  
Rights to new license version  
Media and documentation updates

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**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/>  
<http://www.emulex.com/>

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**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.

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**HP Care Pack Information** 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.

## Technical Specifications

### FC2143

<b>Environmental</b>	<b>Temperature</b>	Operating	32° to 131° F (0° to 55° C); 100lfm
	<b>Storage Temperature</b>	Non-operating	-40° to 158° F (-40° to 70° C)
	<b>Relative Humidity</b>	Operating	5% to 95% non-condensing
<b>Mechanical Specifications</b>	<b>Dimensions</b> (H x W)	Product	6.60 x 2.536 in (16.76 cm x 6.44 cm)
		<b>Media</b>	Multi-mode Optic
<b>Connector</b>	Optics	Short wave laser with LC type connector	
<b>Ports</b>	one		
<b>Power requirements</b>	Watts: Typical/Max	PCI/PCI-X 66 MHz:	5.0/7.1
		PCI-X 100/133 MHz:	5.2/7.4
		PCI-X Mode 2 133 MHz:	5.3/7.5
		OS Support	

### FC2243

<b>Environmental</b>	<b>Temperature</b>	Operating	32° to 131° F (0° to 55° C); 100lfm
	<b>Storage Temperature</b>	Non-operating	-40° to 158° F (-40° to 70° C)
	<b>Relative Humidity</b>	Operating	5% to 95% non-condensing
<b>Mechanical Specifications</b>	<b>Dimensions</b> (H x W)	Product	6.60 x 2.536 in (16.76 cm x 6.44 cm)
		<b>Media</b>	Multi-mode Optic
<b>Connector</b>	Optics	Short wave laser with LC type connector	
<b>Ports</b>	two		
<b>Power requirements</b>	Watts: Typical/Max	PCI/PCI-X 66 MHz:	6.1/8.7
		PCI-X 100/133 MHz:	6.5/9.3
		PCI-X Mode 2 133MHz:	6.6/9.2.
		OS Support	

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