

LSI SAS 9207-4i4e

8-port, 6Gb/s SAS+SATA to PCI Express Host Bus Adapter



Key Features

- 4 Internal and 4 external 6Gb/s SAS+SATA ports
- 8 lanes, PCI Express 3.0
- Low profile form factor design
- One x4 mini-SAS internal connector (SFF8087)
- One x4 mini-SAS external connector (SFF8088)
- LSISAS2308 6Gb/s SAS+SATA Controller
- Supports up to 256 SAS or SATA end devices
- Supports SSDs, HDDs and tape drives

Key Advantages

- Provides state of the art connectivity for servers and appliances with internal storage and the ability to add external storage
- 8 lanes of PCI Express 3.0 provides fast signaling for high-bandwidth applications
- High performance with 6Gb/s data transfer rates

8-port SAS HBA Provides High Performance for Internal and External Storage Connections

Overview

LSI SAS 9207-4i4e host bus adapter provides a high performance solution for internal and external storage connections in 1U/2U servers and workstations. The LSI SAS 9207-4i4e provides 8 lanes of 6Gb/s SAS and is matched with 8 lanes of PCI Express 3.0, 8Gb/s performance to eliminate any performance bottlenecks. Performance is based on the LSISAS2308 6Gb/s SAS IO Controller that highly integrates the latest enhancements in PCI Express and SAS technology.

The LSI SAS 9207-4i4e has one (x4) internal mini-SAS connector (SFF8087), one (x4) external mini-SAS connector (SFF8088), and provides SAS and SATA data transfer rates of 1.5, 3, and 6Gb/s per lane and can achieve over 650K IOPs.

SAS Leadership

LSI offers the broadest SAS product portfolio in the industry with true end-to-end solutions including controllers, expanders, active-active multiplexers, ROCs, host bus adapters, RAID solutions, and external storage. LSI's proven SAS core has completed extensive stress and interoperability testing resulting in the industry's most robust, interoperable solution.

LSI has supplied leading edge serial technology to systems throughout the world for over seven generations, making LSI the most experienced enabler of serial interconnect for storage in the world. Integrators can be assured that their LSI adapter is providing the most advanced and robust serial technology available.

Fusion MPT Architecture

The LSI SAS host bus adapters are based on the Fusion MPT™ architected SAS controllers, which implements LSI's Fusion-MPT (Message Passing Technology) architecture. Each controller features embedded PowerPC™ processors that deliver maximum host CPU offload. The built-in intelligence enables LSI to publish a single binary OS driver to operate any Fusion MPT controller or adapter. The architecture enables high performance, reduced software development, and faster time to market.

LSI SAS 9207-4i4e Host Bus Adapter							
IO Controller	LSI SAS2308/ Fusion MPT 2.0						
Storage Connectivity Data Transfer Rates	8 ports, 6Gb/s SAS 2.1 Compliant						
SAS Bandwidth	Half Duplex 600 MB/s per lane						
Port Configurations	4 ea, x1 internal ports (individual drives) 4 ea, x1 external ports 1ea, x4 external wide port						
Host Bus	x8 lane, PCI Express 3.0 compliant						
PCI Data Burst Transfer Rates	Half Duplex x8, PCIe, 8000 MB/s						
Physical Dimensions	Low Profile (2.6" x 6.6")						
Connectors	One x4 internal mini-SAS (SFF8087), One x4 external mini-SAS (SFF8088)						
Brackets	Full height and low profile						
Cable Support	Passive Copper						
PCI Card Type	3.3 V Add-in Card						
Operating Voltage	+12V +/-8%; 3.3V +/-9%						
PCI Power (Nominal)	9.8W						
Device Support	256 SAS+SATA devices						
Environmental	<table border="0"> <tr> <td>Operating</td> <td>Storage</td> </tr> <tr> <td>0°C to 55°C</td> <td>-45°C to 105°C</td> </tr> <tr> <td>5 to 90% Non-condensing</td> <td>5 to 90% Non-condensing</td> </tr> </table>	Operating	Storage	0°C to 55°C	-45°C to 105°C	5 to 90% Non-condensing	5 to 90% Non-condensing
Operating	Storage						
0°C to 55°C	-45°C to 105°C						
5 to 90% Non-condensing	5 to 90% Non-condensing						
MTBF	>2,000,000						
Regulatory Certifications	EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/New Zealand (AS/NZS 3548); Korea (N-B 2-0001-404); Safety: EN60950; RoHS; WEEE						
OS Support	Microsoft Windows, Linux (SuSE , Red Hat), Solaris, VMware, FreeBSD See http://www.lsi.com/channel/ChannelDownloads for details on versions and support						
Warranty	3 years; with advanced replacement option Free technical support at http://www.lsi.com/channel/support						

Ordering Information

SAS 9207-4i4e SGL

MPN: H5-25434-00

OPN: LSI00303



Visit the Avago Server Storage website at: avagotech.com/server-storage

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