

# LSI SAS 9207-8e

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



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### 8-port SAS HBA Provides High Performance for External JBOD and External RAID enclosures

#### Overview

The LSI SAS 9207-8e host bus adapter provides high performance for 1U/2U mid to high-end servers that connect to large scale storage enclosures. The LSI SAS 9207-8e provides 8 lanes of 6Gb/s SAS matched with 8 lanes of PCI Express 3.0, 5Gb/s performance. 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 9207-8e has two (x4) external mini-SAS connectors (SFF8088) and provides SAS and SATA data transfer rates of 1.5, 3, and 6Gb/s per lane and can achieve over 700K 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.

#### Key Features:

- 8 external 6Gb/s SAS+SATA ports
- 8 lanes, PCI Express 3.0
- Low profile form factor design
- Two, x4 external mini-SAS connectors (SFF8088)
- LSISAS2308 6Gb/s SAS+SATA Controller
- Supports up to 1024 SAS or SATA end devices
- Supports SSDs, HDDs and tape drives

#### Key Advantages:

- Maximum connectivity and performance in a low profile form factor
- 8 lanes of PCI Express 3.0 provides fast signaling for high-bandwidth applications and broad compatibility with latest motherboards
- High performance with 6Gb/s data transfer rates

## LSI SAS 9207-8e Host Bus Adapter

IO Controller	LSISAS2308, 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	8 ea, x1 ports (individual drives) 2 ea, x4 wide ports	
Host Bus	x8 lane, PCI Express 3.0	
PCI Data Burst Transfer Rates	Half Duplex x8, PCIe, 8000 MB/s	
Physical Dimensions	Low Profile (2.7" x 6.6")	
Connectors	Two mini-SAS external connectors (SFF8088)	
Brackets	Full height and low profile	
Cable Support	Passive Copper, Active Copper	
PCI Card Type	3.3 V Add-in Card	
Operating Voltage	+12V +/-8%; 3.3V +/-9%	
PCI Power (Nominal)	9.8W	
Device Support	1024 Non-RAID SAS/SATA devices	
Environmental	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 hrs	
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 6 of 6; WEEE	
OS Support	Microsoft Windows, Linux (SuSE, Red Hat), Solaris, VMware, Free BSD See <a href="http://www.lsi.com/channel/ChannelDownloads">http://www.lsi.com/channel/ChannelDownloads</a> for details on versions	
Warranty	3 years; with advanced replacement option	
	Free technical support at <a href="http://www.lsi.com/channel/support">http://www.lsi.com/channel/support</a>	



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