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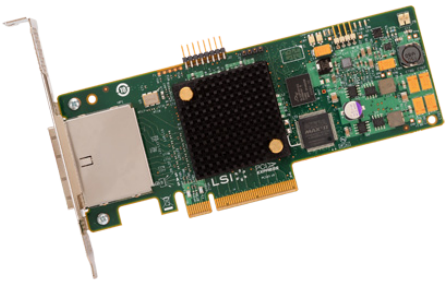
Product Brief

LSI SAS 9205-8e

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



LSI SAS 9205-8e

KEY FEATURES

- 8 external 6Gb/s SAS+SATA ports
- 8 lanes, PCI Express 2.0
- Low profile form factor design
- Two, x4 external HD 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 2.0 provides fast signaling for high-bandwidth applications and broad compatibility with latest motherboards
- High performance with 6Gb/s data transfer rates

8-Port SAS HBA Provides High Performance for External JBOD and External RAID Enclosures

Overview

The LSI SAS 9205-8e host bus adapter provides high performance connectivity for 1U/2U mid to high-end servers that connect to large scale storage enclosures. The LSI SAS 9205-8e is based on the LSISAS2308 IO controller that highly integrates the latest enhancements in PCI Express and SAS technology and supports up to 1024 SAS or SATA devices.

The LSI SAS 9205-8e has two (x4) external mini SAS connectors (SFF8088) which provide SAS and SATA data transfer rates of 1.5, 3 and 6Gb/s per lane through automatic speed negotiation and can achieve over 550,000 IOPs. Enhanced features include T-10 Protection Information Model for early detection of and recovery from data corruption, and Spread Spectrum Clocking (SSC) for minimal EMI.

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 builtin 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 9205-8e 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 2.0	
PCI Data Burst Transfer Rates	Half Duplex x8, PCIe, 4000 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	
PCI Card Type	3.3 V Add-in Card	
Operating Voltage	+12V +/-8%; 3.3V +/-8%	
PCI Power (Nominal)	9W typical (Airflow min 200 LFM)	
Device Support	1024 Non-RAID devices	
Environmental	Operating 0oC to 55oC 5 to 90% Non-condensing	Storage -45°C to 105°C 5 to 90% Non-condensing
MTBF	> 3,000,000 hours	
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); Safety: EN60950; RoHS; WEEE	
OS Support	Microsoft Windows, Linux (SuSE , Red Hat), Solaris, VMware See http://www.lsi.com/channel/ChannelDownloads for details on versions	
Warranty	3 years; with advanced replacement option Free technical support at http://www.lsi.com/channel/support	

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