LSI SAS 9200-8e
8-Port, 6Gb/s SAS+SATA to PCI Express Host Bus Adapter

Key Features

- 8 external 6Gb/s SAS+SATA ports
- 8 lanes, PCI Express 2.0
- Low profile form factor design
- Two x4 external mini-SAS connectors (SFF8088)
- LSISAS2008 6Gb/s SAS+SATA Controller
- Supports up to 512 SAS or SATA end devices
- Supports SSDs, HDDs and tape drives

Key Advantages

- PCI Express 2.0 provides faster signaling for high-bandwidth applications
- 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 9200-8e, dual port, host bus adapter provides high performance connectivity for external JBOD and external RAID enclosures. The LSI SAS 9200-8e provides 8 lanes of 6Gb/s SAS connectivity to 8 lanes of PCI Express 2.0 5Gb/s performance to eliminate bottlenecks. Performance is based on the LSISAS2008 IO controller that highly integrates the latest enhancements in PCI Express and SAS technology. The HBA supports up to 512 SAS 2.0 compliant devices.

The LSI SAS 9200-8e has two (x4) external mini- SAS connectors (SFF8088) enabling a low profile solution that can achieve over 320,000 IOPs. Automatic speed negotiation for SAS and SATA data transfer rates of 1.5, 3 and 6Gb/s per lane assures legacy compatibility while new systems can benefit from 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 9200-8i Host Bus Adapter

I/O Controller	LSI SAS2008/ Fusion MPT 2.0
Storage Connectivity ; Data Transfer Rates	8 ports; 6Gb/s SAS 2.0 compliant
Host Bus	x8 lane, PCI Express 2.0 compliant
PCI Data Burst Transfer Rates	Half Duplex x8, PCIe, 4000 MB/s +12V ±10%
Physical Dimensions	Low Profile (2. 6" 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)	8 W typical (Airflow min 200 LFM)
Device Support	512 Non-RAID SAS/SATA devices
Environments	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 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

Ordering Information

SAS 9200-8e SGL
MPN: H5-25086-01
OPN: LSI00188

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

Avago
T E C H N O L O G I E S