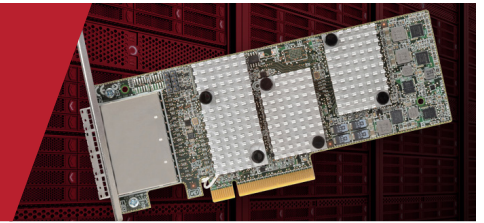# LSI® SAS 9206-16e
16-Port, 6 Gb/s SAS+SATA to PCI Express® Host Bus Adapter

Key Features

- 16 external 6 Gb/s SAS+SATA ports
- 8 lanes, PCI Express 3.0
- Low profile form factor design
- Four x4 external - mini-SAS HD connectors (SFF8644)
- Two LSI SAS 2308 6gb/s SAS+SATA Controllers
- 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 faster signaling for high-bandwidth applications
- High performance with 6Gb/s data transfer rates

16-port SAS HBA Provides Maximum Connectivity and Performance for External JBOD and External RAID enclosures in a low profile form factor

Overview

The LSI SAS 9206-16e, quad port, host bus adapter provides high performance acheiving over 1 million IOPs for high-end servers and storage applications. The LSI SAS 9206-16e provides 16 lanes of 6Gb/s SAS data transfer rates. The adapter complies with the latest PCI Express 3.0 specification with 8Gb/s per lane. The adapter is backward compatible with previous PCIe generations and provides SAS and SATA data transfer rates of 6 and 3Gb/s per lane through automatic speed negotiation. LSI provides a complete suite of industry standard operating system drivers. The LSI SAS 9206-16e has four (x4) external mini SAS HD connectors (SFF8644) enabling a low profile solution.

SAS Leadership

LSI is the storage market leader in SAS, Enterprise RAID, and Application Acceleration, enabling the entire storage ecosystem. LSI offers the broadest product portfolio in the industry including SAS ROCs, IO Controllers, Expanders, Host Bus Adapters, RAID controller cards, switches, advanced software options, and application acceleration solutions. LSI solutions provide the performance, connectivity, scalability, and manageability required for today's enterprise storage environments.

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 Fusion-MPT (Message Passing Technology) architecture. Each controller features embedded-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 9206-16e Host Bus Adapter

IO Controller	Two, LSISAS2308/ Fusion MPT 2.0
Storage Connectivity Data Transfer Rates	16 ports; 6Gb/s SAS 2.1 compliant
SAS Bandwidth	Half Duplex
	2400MB/s, x4, 6Gb/s SAS lanes
Port Configurations	16 ea, x1 ports (individual drives)
	4 ea, x4 wide ports
	2ea , x8 wide ports
Host Bus	x8 lane, PCI Express 3.0 compliant
PCI Data Burst Transfer Rates	Half Duplex
	8000MB/s, x8, PCIe 3.0
Physical Dimensions	68.90 x 167.65 mm
Connectors	Four (x4) mini-SAS HD external connector (SFF8644)
Brackets	Full height and low profile
Cable Support	Passive Copper, Active Copper, Active Optical
Operating Voltage	+12V +/-8%; 3.3V +/-9%
PCI Power (Nominal)	25.8W
Device Support	1024-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	>1,300,000 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); 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
Warranty	3 years; with advanced replacement option
	Free technical support at http://www.lsi.com/channel/support

Ordering Information

SAS 9206-16e SGL

MPN: H5-25176-02

OPN: LSI00299

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