Avago SAS 9207-8i
8-port, 6Gb/s SAS+SATA to PCIe Host Bus Adapter

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

Overview

Avago SAS 9207-8i host bus adapter provides high performance for internal drive connectivity in 1U/2U servers and workstations. The SAS 9207-8i provides 8 lanes of 6Gb/s SAS and is matched with 8 lanes of PCI Express (PCIe) 3.0, 8Gb/s performance to eliminate any performance bottlenecks. Performance is based on the SAS 2308 6Gb/s SAS IO Controller that highly integrates the latest enhancements in PCIe and SAS technology.

The SAS 9207-8i has two (x4) internal mini-SAS connectors (SFF8087) and provides SAS and SATA data transfer rates of 1.5, 3, and 6Gb/s per lane and can achieve over 650K IOPs.

Storage by LSI™

Avago Technologies products serve four primary target markets: wireless communications, wired infrastructure, enterprise storage, and industrial. Avago Storage by LSI offers the industry's broadest portfolio of storage solutions, backed by decades of experience and trusted by the world's leading server and storage suppliers. Avago provides the building blocks for storage solutions that help customers understand, prioritize, store and protect critical data.

The Avago SAS portfolio includes MegaRAID® controller cards, host bus adapters (HBAs), advanced software options, Syncro® shared DAS solutions and SAS storage ICs, including RAID-on-Chip (ROCs), I/O controllers and expanders.

Fusion-MPT™ Architecture

Fusion-MPT architecture marks the next generation of I/O architecture designed to deliver the highest performance available today while reducing time to market, integration, and certification time. Fusion-MPT devices are high performance, cost-effective protocol controllers that represent the newest system- level integration technology in intelligent I/O processors from Avago.

Key Features

- 8 internal 6Gb/s SAS+SATA ports
- 8 lanes, PCI Express 3.0
- Low profile form factor design
- Two x4 internal mini-SAS connectors (SFF8087)
- SAS 2308 6Gb/s SAS+SATA Controller
- Supports up to 256 SAS or SATA end devices
- Supports SSDs, HDDs and tape drives

Key Advantages

- Provides internal connectivity in a low profile form factor
- 8 lanes of PCIe 3.0 provides fast signaling for high-bandwidth applications
- High performance with 6Gb/s data transfer rates

SAS 9207-8i Host Bus Adapter

IO Controller	SAS 2308/ 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 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	Two mini-SAS internal connectors (SFF8087)
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 Non-RAID devices
Environmental	Operating Storage
	0oC to 55oC -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/support/pages/download-search.aspx for details on versions
Warranty	3 years; with advanced replacement option
	Free technical support at http://www.lsi.com/support

Ordering Information

SAS 9207-8i SGL

MPN: H5-25412-00

OPN: LSI00301

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

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