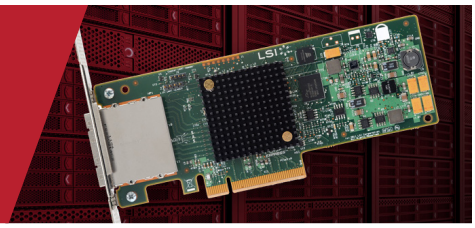
Product Brief

Avago SAS 9207-8e

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



Key Features

- 8 external 6Gb/s SAS+SATA ports
- 8 lanes, PCIe 3.0
- Low profile form factor design
- Two, x4 external mini-SAS connectors (SFF8088)
- SAS 2308 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 PCIe 3.0 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 Avago 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 SAS 9207-8e provides 8 lanes of 6Gb/s SAS matched with 8 lanes of PCI Express (PCIe) 3.0, 8Gb/s performance. 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 9207-8e 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 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.

SAS 9207-8e 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 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 0°C to 55°C 5 to 90% Non-condensing	Storage -45°C to 105°C 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; WEEE	
OS Support	Microsoft Windows, Linux (SuSE , Red Hat), Solaris, VMware, Free BSD 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 9207-8e SGL
MPN: H5-25427-00
OPN: LSI00300

AVAGO TECHNOLOGIES

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