



MegaRAID SAS 9260CV-4i
MegaRAID SAS 9260CV-8i

TYPICAL USES



Data Center



Video-on-Demand



Super Computing



Medical



Video Creation



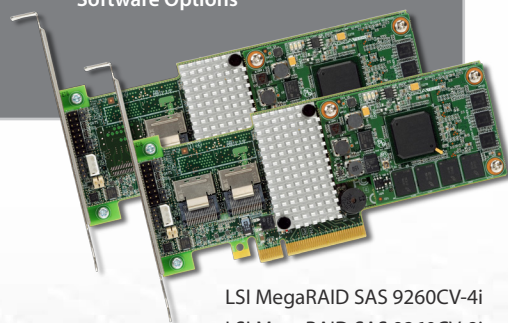
Video Surveillance

KEY FEATURES

- 6Gb/s SATA+SAS RAID Controllers
- 4- and 8-port low-profile MD2
- LSI SAS2108 6Gb/s RAID-on-Chip
- 800MHz PowerPC®
- 512MB 800MHz DDRII cache memory
- RAID Levels 0, 1, 5, 6, 10, 50 and 60
- MegaRAID CacheVault Flash
Cache Protection

KEY ADVANTAGES

- 6Gb/s SAS for superior RAID performance
- Support for 3Gb/s and 6Gb/s SATA and SAS hard drives and SSDs
- CacheVault technology included for greener, lower total cost cache protection
- Support for LSI Advanced Software Options



LSI MegaRAID SAS 9260CV-4i
LSI MegaRAID SAS 9260CV-8i

Product Brief

MegaRAID® SAS 9260CV-4i MegaRAID SAS 9260CV-8i

LSI® 6Gb/s MegaRAID SATA+SAS RAID Controllers with CacheVault™ Flash Cache Protection

Built on the industry-leading 6Gb/s MegaRAID SATA+SAS controller cards, the MegaRAID CV series features the 800MHz LSI SAS2108 RAID-on-Chip (ROC), 512MB DDRII cache memory, and a x8 PCI Express 2.0 host bus interface. In addition to the performance, scalability and configuration flexibility offered by the 6Gb/s MegaRAID SATA+SAS controllers, customers will benefit from a greener, lower cost cache protection solution with MegaRAID CacheVault technology.

MegaRAID CacheVault™ Technology

LSI MegaRAID CacheVault flash cache protection uses NAND flash memory powered by a super-capacitor to protect data stored in the MegaRAID controller cache. This module eliminates the need for a lithium ion battery traditionally used to protect DRAM cache memory on PCI RAID controllers. The RAID controller automatically writes the data in cache to flash when a power failure occurs, while the super-capacitor keeps the current going during the process. When the power comes back, the DRAM is recovered from flash and the system goes on without loss of data. The benefits of this technology are elimination of hardware maintenance associated with LiON batteries, lower total cost of ownership over the life of the adapter, and more environmentally friendly cache protection.

Support for Advanced Software Options

The LSI family of 6Gb/s MegaRAID controllers are designed to support advanced software options that provide white box channel partners with enhanced performance and data

protection capabilities. These new software options help end users address key business challenges while delivering a higher return on their IT investments. MegaRAID CacheCade™ software and MegaRAID Fast Path software boost transactional I/O performance of solid state disk configurations, while MegaRAID Recovery software and MegaRAID SafeStore™ software enable enhanced data protection and security.

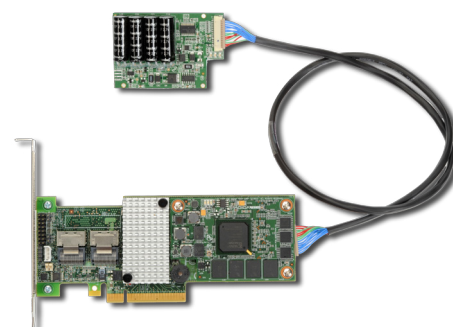
Intuitive RAID Management Utility

The MegaRAID Management Suite™ provides the essential software tools to efficiently manage MegaRAID products, whether deployed in an enterprise or small business. LSI offers a collection of applications and tools including a pre-boot setup utility and a full spectrum of online RAID management utilities to make it easier to configure, monitor, and manage RAID and JBOD volumes locally or over the LAN network.

LSI 6GB/S MegaRAID® SATA+SAS RAID CONTROLLERS WITH CACHEVAULT (9260CV-4I, 9260CV-8I)

Solution Provided	Four- and Eight-port internal SATA+SAS solutions for high I/O and bandwidth-intensive storage applications using SAS, SATA or SSDs; reduces maintenance costs and total cost of ownership using CacheVault technology.	
Device Support	Up to 128 SAS and/or SATA hard drives and SSDs	
Host Bus Type	x8 lane PCI Express 2.0 compliant	
Data Transfer Rates	Up to 6Gb/s per port	
I/O Processor/SAS Controller	LSISAS2108 RAID on Chip (ROC)	
Cache Memory	512MB DDRII SDRAM	
Cache Protection	MegaRAID CacheVault flash cache protection	
Key RAID Data Protection Features	<ul style="list-style-type: none"> • RAID levels 0, 1, 5, and 6 • RAID spans 10, 50 and 60 • Online Capacity Expansion (OCE) • Online RAID Level Migration (RLM) • Auto resume after loss of system power during arrays array rebuild or reconstruction (RLM) • Single controller Multipathing (failover) • Load Balancing • Configurable stripe size up to 1MB • Fast initialization for quick array setup • Check Consistency for background data integrity 	<ul style="list-style-type: none"> • Patrol read for media scanning and repairing • 64 logical drive support • Up to 64TB LUN support • DDF compliant Configuration on Disk (COD) • S.M.A.R.T support • Global and dedicated Hot Spare with Reversible Hot Spare support <ul style="list-style-type: none"> – Automatic rebuild – Enclosure affinity – Emergency SATA hot spare for SAS arrays • Enclosure management <ul style="list-style-type: none"> – SES (inband) – SGPIO (sideband)
Operating Temperature	Maximum ambient: Controller Card: 60°C, Cap Pack: 55°C	
Operating Voltage	+3.3V, +12V	
MTBF	680,002 Hours (controller card)	
Warranty	3 years, free advanced technical support, advanced replacement option	
Regulatory Certifications	EN55022, EN55024, EN60950, EN 61000-3-2, EN 61000-3-3; FCC Class A, Class B; UL1950; UL; CSA C22.2; VCCI; RRL for MIC; BSMI; C-tick	
RAID Management	MegaRAID Management Suite <ul style="list-style-type: none"> • MegaRAID Storage Manager • MegaCLI (command-line interface) • WebBIOS 	
Optional SSD Optimization	MegaRAID CacheCade Software accelerates IO performance by using SSDs as cache MegaRAID Fastpath Software delivers up to 150,000 IOPs performance on SSD arrays	
OS Support	Extensive support includes Microsoft® Windows® 7 Vista/2008/Server 2003/2000/XP, Linux®, Solaris™ (x86), Netware®, Free-BSD®, VMware® and more. * Visit the LSI download Center for the most complete list of supported operating systems: lsi.com/channel/support	

	LSI MegaRAID 9260CV-4i	LSI MegaRAID 9260CV-8i
Order Part Number	LSI00280 (single-pack) LSI00281 (Kit)	LSI00282 (single-pack) LSI00283 (Kit)
Physical Dimensions	MD2 - Low Profile (6.6" X 2.536")	MD2 - Low Profile (6.6" X 2.536")
Ports	4 internal	8 internal
Connectors	1 SFF-8087 (int.)	2 SFF-8087 (int)
Bus Interface	x8 PCIe 2.0	x8 PCIe 2.0
Processor	800MHz LSISAS2108 ROC	800MHz LSISAS2108 ROC
Cache	512MB DDRII	512MB DDRII



MegaRAID SAS 9260CV-8i with CacheVault Flash Module, Power Module and remote cable

For more information and sales office locations, please visit the LSI web sites at:
lsi.com lsi.com/channel

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