



MegaRAID® SAS 9265-8i

Product Brief

TYPICAL USES



Data Center



Cloud Computing



Super Computing



Medical



Video Creation



Tiered Storage

KEY FEATURES

- Eight internal 6Gb/s SATA+SAS ports
- Two Mini-SAS internal connectors (SFF8087)
- LSI SAS2208 Dual-core 6Gb/s ROC - x2 800MHz PowerPC Processors
- 1GB DDRIII cache memory
- Optional heat-tolerant battery backup
- RAID Levels 0, 1, 5, 6, 10, 50 and 60

KEY ADVANTAGES

- Unmatched RAID performance
- Connect up to 128 3Gb/s and 6Gb/s SATA and SAS hard drives or SSDs
- Optimizes solid-state storage deployments
- Heat-tolerant battery backup option (LSIiBBU09)
- Support for LSI Advanced Software Options

MegaRAID SAS 9265-8i

Eight-Port 6Gb/s PCI Express SATA+SAS RAID Controller

Highest Server RAID Performance for Database and Multimedia Applications

As storage demands expand and processing loads grow, it becomes increasingly more difficult for administrators to achieve maximum performance from their applications. The newest line of LSI™ MegaRAID® 6Gb/s SATA+SAS controller cards, built on the LSI SAS2208 dual-core ROC, offer unmatched I/O performance for database applications and streaming digital media environments. The MegaRAID SAS 9265-8i, with eight internal ports, delivers two 800MHz PowerPC processor cores and a 72-bit DDRIII interface that drives 1GB cache memory. Users can deploy the MegaRAID SAS 9265-8i in existing HDD-based server environments for significant performance gains. Alternatively, for users implementing hybrid server platforms based on solid-state storage, these next-generation MegaRAID controllers exploit the potential of SSDs for unsurpassed performance and enterprise-class reliability.

Support for Advanced Software Options

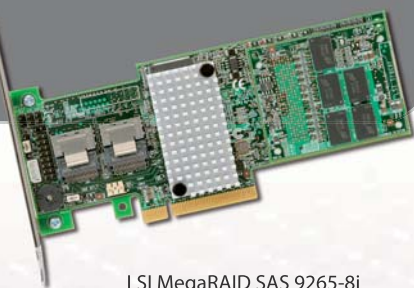
The LSI family of 6Gb/s MegaRAID controllers are designed to support advanced software options that provide white box channel partners with enhanced performance and data protection capabilities. These new software options help enable end users to address key business challenges while helping to deliver a higher return on their IT investments. MegaRAID CacheCade™ software and MegaRAID FastPath™ 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.

Enterprise Data Protection

Standard support for the most popular RAID levels and accessories, including RAID 5, RAID 6 and battery backup, further strengthen the data protection capabilities of the MegaRAID SAS 9265-8i. The new intelligent LSIiBBU09 battery backup unit uses heat-tolerant cell technology to withstand ambient temperatures up to 55 degrees Celsius while protecting the integrity of cache in the event of a power or server failure. This resistance to a high-temperature environment along with remote mounting options gives system builders the flexibility to place the LSIiBBU09 away from thermal hot spots in multiple locations throughout the chassis.

Intuitive RAID Management Utility

The MegaRAID Management Suite™ of software provides the essential 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. This suite of applications allow administrators to adjust SAS or SATA topology views from the system host, controller and disk enclosure down to the logical and physical drive level. Extending to enterprise deployments, these tools scale to more easily configure, monitor and manage RAID and JBOD volumes locally or over the LAN network.



LSI MegaRAID SAS 9265-8i

MegaRAID® SAS 9265-8i

Solution Provided	Eight-port internal SAS solution for performance-hungry applications using up to 128 SAS, SATA and solid state drives (SSDs)	
Physical Dimensions	MD2 Low profile (6.6" X 2.536")	
Internal Connectors	Two Mini-SAS SFF8087 internal connectors	
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	LSISAS2208 Dual-Core RAID on Chip (ROC)	
Cache Memory	1 GB 1333MHz DDRIII SDRAM	
Battery Backup Unit	LSIIBBU09, a heat-tolerant intelligent battery back-up module; remote mount	
Key RAID Data Protection Features	• 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 • SafeStore™ Encryption Services– Instant Secure Erase– (Full SafeStore Encryption key sold separately) • SSD Support with SSD Guard™ • 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 – Automatic rebuild – Enclosure affinity – Emergency SATA hot spare for SAS arrays • Enclosure management – SES (inband) – SGPIO (sideband)	
Operating Temperature	Maximum ambient: 60°C (55°C w/iBBU)	
Operating Voltage	+3.3V	
MTBF (Calculated)	766,841 hours	
Hardware 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 • MegaRAID Storage Manager • MegaCLI (command-line interface) • WebBIOS	
Optional SSD Optimization	MegaRAID CacheCade Software provides 50x boost in READs from SSD Cache MegaRAID FastPath Software delivers up to 300,000 IOPs performance on SSD arrays	
Ordering Information	MegaRAID SAS 9265-8i • Single Pack: LSI00277 • Kit: LSI00278 LSIIBBU09 • Kit: LSI00279	
OS Support	Extensive support includes Microsoft® Windows® Vista/2008/Server 2003/2000/XP, Linux®, Solaris™ (x86), Netware®, FreeBSD®, VMware® and more. * Visit the LSI download Center for the most complete list of supported operating systems: lsi.com/channel/support	



For more information and sales office locations, please visit the LSI web sites at:
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