



MegaRAID® SAS 9260-16i

Product Brief

TYPICAL USES



Storage



Video Surveillance



Super Computing



Medical Imaging



Video Creation



Video-on-Demand

KEY FEATURES

- Sixteen 6Gb/s SATA+SAS ports
- Four Mini-SAS internal connectors (SFF-8087)
- LSI SAS2108 6Gb/s RAID-on-Chip - 800MHz PowerPC®
- 512MB 800MHz DDRII cache memory
- Optional battery backup module
- RAID Levels 0, 1, 5 and 6
- RAID Spans 10, 50 and 60

KEY ADVANTAGES

- High drive count support for internal server and storage systems
- PCI Express® 2.0 provides faster signaling for high-bandwidth applications
- Connect up to 128 3Gb/s and 6Gb/s SATA and SAS hard drives
- Support for LSI Advanced Software Options

MegaRAID® SAS 9260-16i

16-Port Internal PCI Express SATA and SAS RAID Controller

Protect Business Critical Data with the Industry's Most Trusted SATA+SAS RAID Controllers

Next-Generation High Port SATA+SAS RAID

LSI™ MegaRAID SATA+SAS controllers provide a new level of reliability, availability, and performance to businesses that are facing storage challenges driven by unprecedented data growth. The MegaRAID SAS 9260-16i, with sixteen internal ports, connects up to 16 drives inside the server via direct connection or passive backplanes. Also, by leveraging SAS expander technology, this controller can scale to support up to 128 devices for growing storage requirements. This MegaRAID value line controller, ideal for inside-the-box connectivity, employs the latest in RAID-on-Chip technology, complies with the PCI Express 2.0 specification, and supports 512MB DDR2 cache and optional battery backup for maximum performance and reliability.

6Gb/s SAS Performance Advantage

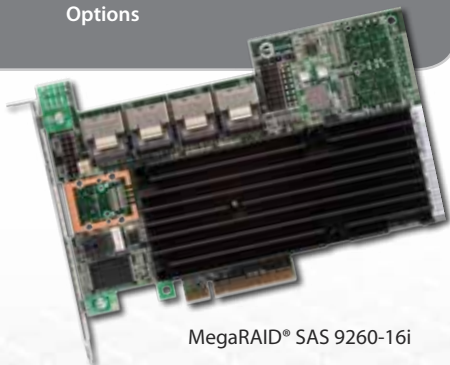
With data transfer rates of up to 6Gb/s per port, the MegaRAID SAS 9260-16i bring users new features and improved performance, while continuing to support all the features of the previous 3Gb/s SATA+SAS generation. 6Gb/s SAS is designed for backward compatibility with 3Gb/s SAS as well as with 6Gb/s and 3Gb/s SATA hard drives. Regardless of the drive speed, 6Gb/s MegaRAID controllers are designed to deliver significant performance improvements in both read and write applications as compared to their 3Gb/s predecessors.

Support for Advanced Software Options

The LSI family of 6Gb/s MegaRAID high port count 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 can 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.

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. This suite of applications allow administrators to adjust SAS 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 easily configure, monitor and manage RAID volumes locally or over the LAN network.



MegaRAID® SAS 9260-16i

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Solution Provided	Sixteen-port internal SATA+SAS solution for internal servers and storage systems requiring high drive count support	
Physical Dimensions	Half-Length, Full Height (6.6" x 4.376")	
Internal Connectors	Four Mini-SAS SFF8087 4i internal connectors	
Device Support	Up to 128 SAS and/or SATA drives	
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) and LSISAS2x36 Expander	
Cache Memory	512MB 800MHz DDR II SDRAM	
Battery Backup Unit	LSIiBBU07, an intelligent battery backup module option that connects remotely to the RAID controller	
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"> • 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 Revertible 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) • Storage Appliance– SGPIO (sideband)
Operating Temperature	Maximum ambient: 60°C (45°C w/iBBU)	
Operating Voltage	+3.3V	
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	
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	
MTBF	927,561 Hours	
Ordering Information	LSI00208 (Single-pack)	

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

lsi.com lsi.com/channel

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