



## LSI® MegaRAID® SAS 9265/9285 Series FAQ

### How is the LSI® MegaRAID® SAS 9265/9285 series different than the existing 9260/9280 series?

The MegaRAID SAS 9265/9285 series is the LSI second generation of high-performance MegaRAID SATA+SAS RAID controller cards based on 6Gb/s SAS technology. The low profile MD2 form factor controllers feature the new dual-core LSISAS2208 SAS ROC IC with two 800MHz PowerPC processor cores and 1GB DDRIII cache memory. The cards provide support for up to 240 SATA and SAS hard drives or SSDs, and support hardware RAID levels 0, 1, 5, 6, 10 and 60.

### What skus are available in this new MegaRAID series?

This second-generation 6Gb/s SAS MegaRAID series includes an 8-port internal controller (MegaRAID SAS 9265-8i) and 8-port external controller (MegaRAID SAS 9285-8e) to address high-performance storage requirements for both inside and outside the server.

### What is the performance of the MegaRAID SAS 9265/9285 series versus the 9260/9280 series?

The new MegaRAID controllers deliver performance levels greater than 200,000 I/Os per second (IOPS), a 3x improvement compared to the previous generation products. The controller also delivers industry-leading bandwidth with RAID 5 and 6 sequential writes at 3,276 MB/s and sequential reads at 2,670 MB/s – up to a 67% improvement over the 9260/9280 series. Users can boost IOPS performance to greater than 465,000 IOPS by utilizing LSI MegaRAID FastPath™ software. This advanced software option provides high-performance I/O acceleration for SSDs connected to a MegaRAID controller, enabling users to realize the full performance benefits of SSDs without sacrificing enterprise-class reliability.

### What is the performance of the MegaRAID SAS 9265/9285 series versus the competition?

LSI MegaRAID SAS 9265/9285 series controller cards, powered by the LSISAS2208 dual-core 6Gb/c SAS RAID-on-Chip (ROC), deliver the industry's highest server RAID IOPS and bandwidth, extending the performance leadership offered by the existing family of LSI MegaRAID 6Gb/s SATA+SAS controllers.

The 9265/9285 series provides between four and seven-and-a-half times (4X-7.5X) the IOPSs of the next closest competitor, and have the highest IOPS performance in SSD environments. These controllers also show superior throughput performance versus the competitors, with RAID 5 and 6 streaming performance over 2500MB/s – an industry-first achievement that cannot be matched by any other RAID controller product in the market today.

### What applications are the MegaRAID SAS 9265/9285 ideal for and why?

The MegaRAID SAS 9265 and 9285 series controllers drive performance levels up beyond 400,000 IOPS to meet the high I/O transaction demands of database and cloud applications as well as provide the sustained data transfer rate (SDTF) horsepower and high sequential bandwidth to meet the processing requirements of digital media, video and imaging environments.

### Does the MegaRAID SAS 9265/9285 series support battery backup?

Yes. An optional new intelligent LSIiBBU09 battery backup unit utilizing heat-tolerant cell technology enhances data protection capabilities and provides system builders with the flexibility to mount the LSIiBBU09 to a separate PCI Remote Mounting Board (RMB) or remote within the chassis.

### What RAID levels do the MegaRAID SAS 9265/9285 products support?

The MegaRAID SAS 9265 and 9285 series controllers support standard RAID levels 0, 1, 5, 6, 10, 50 and 60.

### Which products are compatible with the MegaRAID SAS 9265/9285 series?

The MegaRAID SAS 9265/9285 controllers are tested and supported on all major vendor motherboards, enclosures, disk drives and solid-state drives (SSDs). Please visit [www.lsi.com/channel](http://www.lsi.com/channel) for the most up-to-date interoperability list.

### What advanced software options are supported on these controllers?

The MegaRAID SAS 9265/9285 controllers are designed to support advanced software options that provide white box channel partners with enhanced performance and data protection capabilities. These 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.

### What operating systems are supported?

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. [www.lsi.com/channel/support](http://www.lsi.com/channel/support)

### What is the warranty period on these controller cards?

The MegaRAID SAS 9265/9285 controllers are backed by a three-year warranty, with free advanced technical support.

For more information and sales office locations, please visit the LSI web sites at: [lsi.com](http://lsi.com) [lsi.com/contacts](http://lsi.com/contacts)  
Phone: 1.866.574.5741 or 1.610.712.4323

LSI, the LSI logo, MegaRAID and SafeStore are trademarks or registered trademarks of LSI Corporation.

All other brand and product names may be trademarks of their respective companies. LSI Corporation reserves the right to make changes to any products and services herein at any time without notice. LSI does not assume any responsibility or liability arising out of the application or use of any product or service described herein, except as expressly agreed to in writing by LSI; nor does the purchase, lease, or use of a product or service from LSI convey a license under any patent rights, copyrights, trademark rights, or any other of the intellectual property rights of LSI or of third parties.

Copyright ©2011 by LSI Corporation. All rights reserved.  
February 2011

