LSI

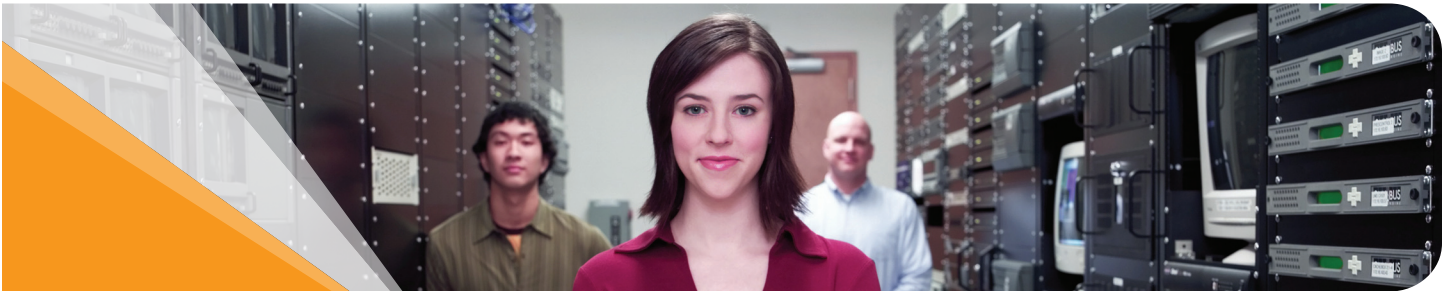# LSI MegaRAID® SAS Adapters And HBAs Coupled With Rackmount JBODs From YMI Future-Proof Your Investment In Storage With SATA Or SAS Functionality

EXECUTIVE SUMMARY

CHALLENGE

- Demand for both SAS/SATA systems is rapidly rising
- IT managers must minimize total cost of storage ownership
- Drive life cycles have been extended, storage components need to maintain ROI

SOLUTIONS

- Fully tested LSI MegaRAID controllers with RackmountPro SAS/SATA mid-planes, massive storage systems
- Ability to integrate LSI SAS/SATA MegaRAID controllers into RackmountPro's expanded subsystems to minimize cost
- For storage expansion, RackmountPro RM2U2012/RM3U3016 SAS JBOD can be implemented to maintain ROI

RESULTS

- Readily available RackmountPro with LSI products can be purchased through YMI sales representatives or online
- RackmountPro SAS/SATA with high reliability and performance
- LSI and RackmountPro product development and tech support
- Scalable systems and expandable solutions

LSI And YMI Meet The Demands Of Today's Business Across Market Segments With Scalable SAS Storage Systems

CASE STUDY

Multi-level Partnership

YMIUSA is a Southern California based server system specialist with over 10 years of experience in the industry. Established in 1994, YMI was one of the first pioneers to specialize solely in rackmount servers, chassis, and accessories, along with other industrial servers and components. Today YMI continues to lead the industry with its tech-savvy engineers and responsive customer service staff. With a complete silicon-to-systems portfolio of storage solutions, LSI develops multi-level partnerships with companies such as YMI to assure differentiated solutions. Continued innovation and the ability to deliver intelligent storage products that are valued by end customers across market segments has made LSI the industry's storage partner of choice.

"LSI and YMI are working together to address the growing storage needs in vertical markets such as government and education as well as in small-to-medium-sized businesses," said John Roeser, director of channel sales at LSI. "The demands for increasingly fast, flexible, and reliable data access have resulted in new evolutions of storage technologies. Now, with Serial Attached SCSI (SAS), LSI and YMI can meet the demands of today's business through improved flexibility and improved deployment topologies, while maintaining the legacy SCSI cost structure."

SATA or SAS Functionality

Parallel data transfer technologies that have been the standard for many years are rapidly transitioning to serial architectures to increase performance. SAS technology delivers the power and reliability of SCSI technology combined with the speed and ease-of-use of serial communication, delivering the performance and reliability required for enterprise-class storage.

Instead of the common parallel interface used by previous generations of SCSI drives, SAS drives use a serial interface that provides better signal integrity, greater device addressability, and higher performance. The high-speed, point-to-point SAS technology currently operates at speeds up to 3Gb/s, and is expected to operate at speeds of 6Gb/s and 12Gb/s in the future. In addition, SAS storage systems are compatible with SATA drives providing a wide variety of customer choice and possible storage system consolidation. As parallel interfaces are replaced with higher performance serial interfaces, SAS and SATA are fast becoming leading technologies.

YMIUSA.com

Designing Cost Effective Solutions for Today's Needs with LSI and YMI

YMI excels in providing very cost effective rackmount servers, chassis, and accessories for any application while LSI is the one-stop-shop for all SAS/SATA storage needs. For direct attached storage, YMI offers RackMountPro JBODs supporting 2.5 inch and 3.5 inch form factor SAS/SATA drives featuring LSI MegaRAID® SAS/SATA storage adapters. With a single external SAS port, multiple JBODS can be connected to a server and added easily as needed. System builders can attach up to 240 disks; choose high performance SAS disks or high capacity SATA drives – or a combination of both – for greater system design flexibility With this ability to mix and match both SATA and SAS hard drives behind one controller, customers can future-proof their investment in storage and design systems for maximum return-on-investment.

YMI incorporates SAS directly into a single storage box, so that both SAS and SATAII drives can be utilized in a DAS, NAS or SAN environment that supports both iSCSI or Fibre Channel with either a single controller or dual active controller. Systems designed with SAS enable IT managers to mix and match lower-cost SATAII drives in the same enclosure as high-performance SAS drives, meeting the demands of both price/performance and capacity/performance.

"SAS technology is enabling businesses to overcome continuously increasing storage requirements, while freeing them from the constant struggle of having to catch up, said Stephen Shou, General Manager of YMI. "As every business is required to improve, optimize and enhance their storage systems, SAS answers the call with improved system performance, connectivity, and scalability. The architecture of SAS and compatibility with SATA promises flexible, enterprise-class storage solutions and solves future storage problems today."

To help vertical markets take full advantage of SAS storage solutions today, YMI offers government agencies under U.S. General Services Administration (GSA) contract a GSA Advantage purchase program. To serve the educational sector, YMI provides discounts for schools and laboratories.

Together, LSI and YMI are delivering SAS solutions with new levels of flexibility, performance, and reliability. Now enterprise-class storage technology is available at a cost that makes SAS affordable for businesses of all sizes.

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>
> Stephen Shou
> **General Manager**
> **YMIUSA**

7U 32 DISK STORAGE SERVER	4U 16 DISK STORAGE SERVER	2U 8 DISK STORAGE SERVER	1U 4 DISK STORAGE SERVER	16 DISK SERVER + 104 DISK EXPENSION
YMI RM7034 Server	YMI RM4018 Server	YMI RM2010 Server	YMI RM1426 Server	YMI RM4018 Expander Server (RM3016 JBOD)
LSI MegaRAID SAS 84016	LSI MegaRAID SAS 84016	LSI MegaRAID SAS 8708ELP	LSI MegaRAID SAS 8704ELP	LSI MegaRAID SAS 8888ELP (RM2012 JBOD)

Model Number	Dives Expanded
YMI SAS JBOD - 3016	16
YMI SAS JBOD - 3016	16
YMI SAS JBOD - 3016	16
YMI SAS JBOD - 2012	12
YMI SAS JBOD - 2012	12
YMI SAS JBOD - 2012	12
YMI SAS JBOD - 2012	12
YMI SAS JBOD - 2012	12
YMI SAS JBOD - 2012	12
Total	120

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

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