First-to-Market Half-Size, Dual Channel, Ultra320 PCI Express RAID Adapter

Key Advantages

- Advanced data protection capabilities
- Based on proven, market-leading MegaRAID technology
- High-bandwidth serial PCI- Express host interface

MegaRAID SCSI 320-2E Advantage

With its superior bandwidth for component communications and a much simpler internal design, PCI Express MegaRAID[®] storage adapters address the growing demand for higher storage device throughput and scalability requirements across midrange and enterprise class server platforms. Its serial architecture does away with the limitations of parallel bus architectures by delivering high bandwidth with the fewest number of signals. This allows higher frequency scaling, while maintaining cost effective fault tolerant reliability, availability and serviceability.

Market-Leading Fault Tolerance

LSI Logic MegaRAID technology continues to raise the bar by offering the highest levels of fault tolerant data protection, including Microsoft Server Clustering Support (MSCS). LSI Logic's innovative intelligent Transportable Battery Backup Unit (iTBBU[®]) technology for cached data protection allows system builders to protect cached data even during the most catastrophic system failures. Optional iTBBU01 modules (order number LSI00009) can be ordered separately as a field upgrade.

Other advanced fault tolerance features – including patrol read for enhanced detection of physical device failure and temporary offline, an array recovery feature for secondary drive failures in degraded arrays – further extend MegaRAID technology as the preeminent solution for mission critical server environments.

Rapid Setup, Simple Operation

RAID initialization in minutes instead of hours using Fast Initialization technology enables personnel to quickly configure systems and prepare them for the most intensive data storage needs.

Robust RAID Management Utilities

The MegaRAID SCSI 320-2E management software suite consists of a complete set of tools including embedded BIOS(CTRL-M) and browser-based (CTRL-H) pre-boot configuration utilities, character based MegaManager and graphically powered Power Console Plus (PCP). These online management utilities are easy-to-use and quick to install, allow administrators unequalled array flexibility and accessibility. Software utilities provide the capability to configure, manage, and monitor, MegaRAID Ultra320 SCSI adapters, physical drives, and logical drives.

Operating System Support

The MegaRAID SCSI 320-2E supports all key versions of Microsoft, Netware, Linux, and SCO UNIX. All OS drivers are backed by extensive testing and validation to ensure optimum system performance.

Visit: http://lsilogic.com/reseller for partner program details.





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ENVIRONMENTS

Mid-range and enterprise class server platforms

TYPICAL USES

Database, file, web and e-mail servers; multimedia and video servers, and performance workstations

FEATURES

- Dual channel Ultra320 SCSI RAID storage adapter
- PCI Express 1.0 A compliant
 _ x8 lane width (x4 also supported)
- 128 MB ECC DDR SDRAM local memory
- Optional 128 MB ECC DDR SDRAM transportable battery-backed memory
- New fault tolerance capabilities
- Patrol Read for advanced data integrity protection
 Degraded array failure
- protection
 Online capacity expansion and
- RAID level migration
- EM64T and AMD 64 support
 Microsoft[®] cluster server support
- Supports up to 40 logical drives per adapter and 30 physical drives per array
- Auto resume during array reconstruction



MegaRAID[®] SCSI 320-2E ULTRA320 SCSI PCI EXPRESS RAID ADAPTER

	LSI Logic MegaRAID SCSI 320-2E	
Solution Provided	Unsurpassed data throughput and advanced MegaRAID fault tolerance	
Environment	Mid-range and enterprise class server platfroms	

Internal Connectors	Two internal P68 connectors (HD)		
External Connectors	Two external P68 connectors (VHDC)		
Battery Back-up Unit	Intelligent Transportable Battery Backup Unit (order number LSI00009)		
Processor	Intel [®] IOP332	Intel [®] IOP332	
Device Support	Up to 30 SCSI devices		
Data Transfer Rates	640 MB/sec peak		
Cache Memory	128MB ECC SDRAM DIMM		
Bus Type	PCI Express 2.5GHz, x8 link for 2GB/sec peak simplex or 4GB/sec peak dual-simplex bandwidth		
Physical Dimensions	Standard-height, half-length 6.875" x 4.2"		
Operating Temperature	55°C (45°C w/BBU card)		
Operating Voltage	+3.3V		
Warranty	3 years, free advanced technical support, advance replacement option		
Regulatory Certification	ETL, CE, FCC, CSA, C-tick, VCCI, BSMI and RRL		
RAID Features	• RAID levels 0, 1, 5, 10, and 50	Online RAID level migration	
	Online capacity expansion	 40 logical drives support 	
	Variable stripe size support	Auto resume on array reconstruction	
	Fast initialization for quick array setup	Microsoft Cluster Server support (MSCS)	
	Patrol Read	Configuration On Disk (COD)/NVRAM	
	Temporary Offline	• S.M.A.R.T. support	
	Automatic rebuild of hot spare drives	SAF-TE enclosure management	
RAID Management	Online Utilities:	Pre-Boot BIOS Utilities:	
	- Power Console Plus (GUI-based)	– CTRL M (character-based)	
	– MegaManager (character-based)	– CTRL H (browser-based)	
OS Support	Microsoft [™] Windows [®] XP/2000*/2003	3* • Red Hat® Linux®	
	Novell [®] NetWare [®]	SuSE [®] Linux [®] /SLES	
	• SCO [®] UNIXWare	 SCO[®] OpenServer 	
	*Intel [®] EM64T and AMD64 instruction set ready		
	Visit the LSI Logic Download Center at http://www.Isilogic.com/downloads/main.do		
	for a complete list of OS versions supported	ed.	

Visit the LSI Logic web site at: http://Isilogic.com/storage

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