LSI LOGIC®

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
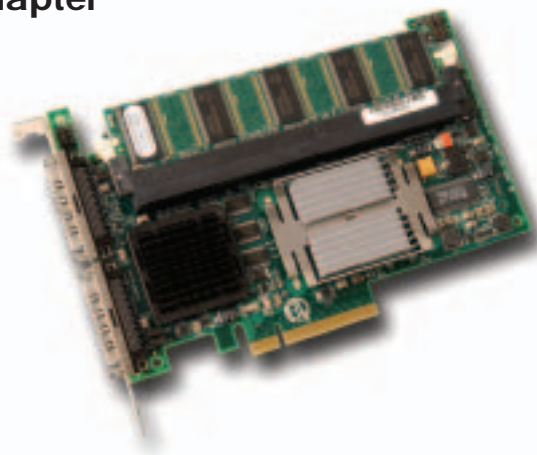- High-bandwidth serial PCI- Express host interface

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.

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
- Fast initialization for array setup

ULTRA320 SCSI

LSI LOGIC®

	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
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* • 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.lsilogic.com/downloads/main.do** for a complete list of OS versions supported.