LSI LOGIC®

Industry's Leading Single-Channel Ultra320 SCSI RAID Solution

Key Advantages

- Intelligent Processor-Powered RAID Solution
- Background Initialization Setup
- FlexRAID™ Easy System Expansion, RAID Level Migration
- Battery Backup Unit Available
- 2U Low Profile Form Factor

The MegaRAID® Advantage

The MegaRAID SCSI 320-1 means maximum speed and the best data protection solution on the market. Used by every major OEM in the world, the MegaRAID SCSI 320-1 products offer cost effective solutions in a low profile (MD2) form factor. The MegaRAID SCSI 320-1 PCI SCSI RAID adapter provides state-of-the-art RAID technology including Patrol Read and Temporary Offline for added fault tolerance and data protection.

MegaRAID technology permits fast initialization for rapid setup and RAID initialization in minutes instead of hours. This enables a user to configure systems quickly, key for efficient factory assembly and validation.

Ultra320 SCSI RAID Capabilities

Maximizing the potential of the Ultra320 SCSI specification, the MegaRAID SCSI 320-1 delivers new features such as double transfer speed with Cyclic Redundancy Check (CRC), transferring multiple commands or data with packetized protocol, and eliminating free bus time with Quick Arbitration and Selection (QAS). In addition, LSI Logic led the market by developing Fusion-MPT™ (Message Passing Technology) architecture to provide excellent Ultra320 signal integrity, efficient bus utilization, and enhanced data integrity.

Battery Backup of Critical Data

Support for an optional battery backup unit (sold separately) provides the option for extra data security with the advantage of temporarily storing data during a complete system power failure. Battery backup guarantees that every bit of data remains intact.

Easy-To-Use Management Utilities

LSI Logic offers more RAID management tools than any other provider. The MegaRAID SCSI 320-1 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 MegaRAID Manager, and graphically powered Power Console Plus (PCP). These software utilities provide the capability to configure, manage, and monitor MegaRAID Ultra320 adapters, physical drives, and logical drives.

Wide Range of OS Support

The MegaRAID SCSI 320-1 supports all key versions of Microsoft Windows, Linux and SCO UNIX. All OS drivers are backed by extensive testing and validation to ensure optimum system performance.

MegaRAID Product	Product Features
MegaRAID SCSI 320-1 KIT (3201064KIT)	320-1 w/64MB and one internal five-drive SCSI cable
MegaRAID SCSI 320-1 (3201064)	320-1 w/64MB with LP and full-height brackets included
MegaRAID SCSI 320-1 (LSI00026)	320-1 w/128MB with LP and full-height brackets included
MegaRAID SCSI 320-1LP (3201064LP)	320-1LP w/64MB and LP bracket. Designed for 2U environments only.
MegaRAID LSIBBU01 (LSIBBU01)	Battery for 320-1 (sold separately)

ENVIRONMENTS
Midrange servers or performance workstations with limited space requirements.

TYPICAL USES
Database, web and email servers

FEATURES

- Optional battery backup
- Intel GC80302 (66MHz) integrated I/O processor
- Fusion-MPT ™ advantage
- Up to 15 SCSI drives
- Excellent signal integrity
- Background Initialization
- FlexRAID ™ support
  - Online capacity expansion
  - Online RAID level migration

LSI LOGIC®

FUSION-MPT™
MESSAGE PASSING TECHNOLOGY

ULTRA320
SCSI

MegaRAID® SCSI 320-1
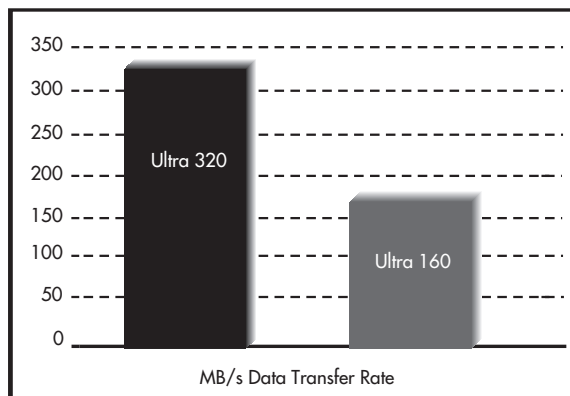## SINGLE-CHANNEL ULTRA320 SCSI RAID ADAPTER

	MegaRAID SCSI 320-1 *(Order Number 3201064 or LSI00026)*	MegaRAID SCSI 320-1 KIT *(Order Number 3201064KIT)*	MegaRAID SCSI 320-1LP *(Order Number 3201064LP)*
Solution Provided	Unsurpassed data throughput and advanced MegaRAID fault tolerance	Cabled bundled, ready-to-go MegaRAID solution with unsurpassed data throughput and advanced features	2U form factor servers utilizing MegaRAID's speed with the ability for external or side-mounted internal SCSI connector
Environment Envisioned	Ideal for entry-level servers and workstations requiring up to 15 disk drives	Ideal for entry-level servers and workstations requiring up to 15 disk drives and a five-drive cable solution option with guaranteed compatibility	Ideal for entry-level servers and workstations that require a low-profile form factor for even the most limited enclosure environments
Internal Connectors	One 68-pin UHD, top mounted	One 68-pin UHD, top mounted	One 68-pin UHD, side mounted

External Connectors	One 68-pin VHDCI
Optional Battery Backup Unit	Order number LSIBBU01 (1-year warranty)
Processor	Intel GC80302 (66MHz)
Device Support	Up to 15 SCSI devices
Data Transfer Rates	Up to 320MB/sec
Cache Memory	Up to 128MB ECC SDRAM
Bus Type	64-bit/66MHz PCI
Physical Dimensions	Low profile 2.54" x 6.60" or 6.45cm x 16.76cm
Operating Temperature	55°C (w/out BBU card), 45°C (w/ BBU card)
Operating Voltage	5.00 V ± 0.25 V
Warranty	3 years, free advanced techincal support, advanced replacement option
Regulatory Certification	CE, FCC, C-tick, ETL, VCCI, BSMI, and RRL
RAID Features	• RAID levels 0, 1, 5, 10, and 50 • Online RAID level migration • Online capacity expansion • Variable Stripe Size • Fast initialization for quick array setup • Auto resume on array reconstruction • 40 logical drive support • Background initialization for array consistency check
Fault Tolerance Features	• Patrol Read • Configuration On Disk (COD) and NVRAM • Automatic rebuild of hot spare drives • S.M.A.R.T. support • Temporary Offline • Auto detection of failed drives • Hot swapping w/o bringing system down • SAF-TE enclosure management

RAID Management	• Online Utilities: • Pre-Boot BIOS Utilities:
	  - Power Console Plus (GUI-based) - Ctrl. M (command line)
	  - MegaManager (character-based) - Ctrl. H (browser-based)

OS Support	• Windows XP/2000/2003 • Suse Linux • Linux Redhat • Novell Netware • SCO OpenServer • SCO UnixWare

THE PERFORMANCE ADVANTAGE

LSI Logic's first-to-market MegaRAID SCSI 320-1 provides incredible speed advantages with Ultra320 SCSI. Arm yourself with the same secret weapon used by every major OEM to protect data every second of every day: LSI Logic MegaRAID.

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

MB/s Data Transfer Rate