

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

MegaRAID® SCSI 320-1

SINGLE-CHANNEL ULTRA320 SCSI RAID ADAPTER

Visit the LSI Logic web site at:
<http://lsilogic.com/storage>

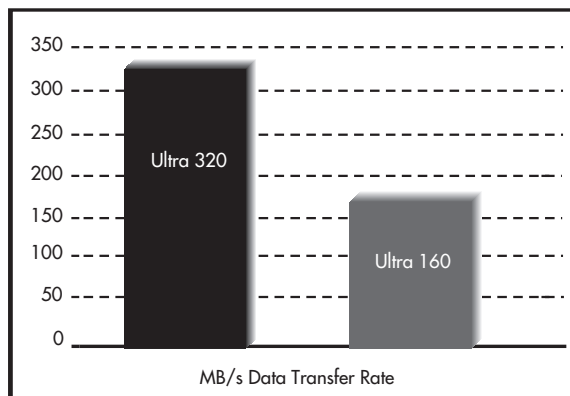
| | MegaRAID SCSI 320-1 <i>(Order Number 3201064 or LS100026)</i> | MegaRAID SCSI 320-1 KIT <i>(Order Number 3201064KIT)</i> | MegaRAID SCSI 320-1LP <i>(Order Number 3201064LP)</i> |
|-------------------------------|---|--|--|
| Solution Provided | Unsurpassed data throughput and advanced MegaRAID fault 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 technical support, advanced replacement option |
| Regulatory Certification | CE, FCC, C-tick, ETL, VCCI, BSMI, and RRL |
| RAID Features | <ul style="list-style-type: none"> • RAID levels 0, 1, 5, 10, and 50 • Online capacity expansion • Fast initialization for quick array setup • 40 logical drive support • Online RAID level migration • Variable Stripe Size • Auto resume on array reconstruction • Background initialization for array consistency check |
| Fault Tolerance Features | <ul style="list-style-type: none"> • Patrol Read • Automatic rebuild of hot spare drives • Temporary Offline • Hot swapping w/o bringing system down • Configuration On Disk (COD) and NVRAM • S.M.A.R.T. support • Auto detection of failed drives • SAF-TE enclosure management |
| RAID Management | <ul style="list-style-type: none"> • Online Utilities: <ul style="list-style-type: none"> - Power Console Plus (GUI-based) - MegaManager (character-based) • Pre-Boot BIOS Utilities: <ul style="list-style-type: none"> - Ctrl. M (command line) - Ctrl. H (browser-based) |
| OS Support | <ul style="list-style-type: none"> • Windows XP/2000/2003 • Linux Redhat • SCO OpenServer • Suse Linux • Novell Netware • 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



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