

LSI LOGIC®



MegaRAID® SCSI 320-1

The height of reliability and performance for midrange servers and workstations.

The LSI Logic MegaRAID SCSI 320-1 RAID card with a low profile midrange and advanced RAID features offers unsurpassed performance and fault tolerance to your midrange server or performance workstation environment. All major OEMs use LSI Logic MegaRAID architecture solutions. This RAID card is ideal for applications such as database, file, web and email servers, as well as multimedia and video servers.

Now available as a complete solution, this product kit contains:

- The LSI Logic MegaRAID SCSI 320-1 RAID adapter card
- One Tripp Lite® internal, five-drive LVD 68-pin, 42-inch cable with termination
- CD with management software, device drivers and user manual
- Low profile bracket and full-height bracket included
- Warranty and product registration information
- Quick-install guide

LSI Logic has been out in front for years – first as a custom ASIC supplier and more recently as a provider of more than \$1 billion in storage product solutions annually. Yet some of you may still not know us or know how our products can add to your channel profits. The interface landscape is growing more complex and understanding how best to service your customers' needs can be a daunting task.

That's where we come in.

All major OEMs use our storage solutions, from desktops to data centers – from Ultra320 SCSI and RAID, to iSCSI, Fibre Channel and Serial ATA products. We're taking the next logical step and bringing our engineering skills, technical support and product reliability to the channel and expanding our reseller partner network.

<http://lsilogic.com/storage>



APPLICATIONS

Midrange servers and performance workstations.

TYPICAL USES

Database, file, web and email servers; multimedia and video servers.

FEATURES

- Single-channel, Ultra320 SCSI RAID card
- MD2 (low profile) form factor
- 64-bit, 66 MHz PCI
- Supports RAID levels 0, 1, 5, 10 and 50
- Integrated 64 MB ECC SDRAM cache memory
- Advanced fault tolerance capabilities
- Supports all major operating systems

MegaRAID® SCSI 320-1

SINGLE-CHANNEL RAID CARD

Technical Specifications

MD2 size (low profile) PCI card (6.60" x 2.54")	Integrated 64 MB ECC SDRAM cache memory
• One LSI53C1020 single-channel Ultra320 SCSI RAID controller	Universal 64-bit, 66 MHz PCI
• One external P68 VHDCI connector	PCI 2.2 compliant
• One internal P68 HDCI connector	PC 99 compliant
Intel® GC80302 integrated I/O processor	ACPI support
• Hardware XOR engine for parity	

RAID Features

RAID levels 0, 1, 5, 10, and 50 supported	Variable stripe size for all logical drives
Background initialization for Quick RAID 5 setup	Supports multiple caching policies on a logical drive basis:
40 logical drives per controller and 15 physical drives per logical array	• Write-back/Write-through, Read-ahead:
Auto resume during array rebuild or reconstruction if the system shuts down	Disable/Enable/Adaptive, and Cache/Direct I/O

Fault Tolerance

COD - Configuration On Disk and NVRAM	Support for SAF-TE enclosure management
Auto detection of failed drives	SMART support
Automatic and transparent rebuild of hot spare drives	Battery backup option sold separately
Hot swapping new drives w/o bringing system down	

Universal Driver Suite

Dos 6.22	Redhat 9.0	Windows 2000
Linux Monitor	SCO OSR Unix 5.x	Windows 2003
Netware 5.1, 6.0	SLES 8	Windows NT 4.0
Redhat 7.3	SUSE 8.1	Windows XP
Redhat 8.0	Unixware 7.x	

Online Management Utility Options

Power Console® Plus for Windows NT®/2000/XP/Windows 2003 (32-bit and 64-bit)
• Creates and manages multiple disk arrays, controls and monitors multiple RAID servers
MegaManager
• Advanced character-based configuration and management utility for all OSs supported

Pre Boot Configuration Utility Options

WebBIOS™
• Browser-based BIOS configuration utility for point-and-click MegaRAID configuration
Hot key "Boot-up" configuration via BIOS
• Array and logical drive configuration utility at the BIOS level

Physical and Cable Specifications

Height/width: 6.60" x 2.54"	Cable: Tripp Lite® 68-pin, 42" 5-drive cable with termination
Kit weight: 0.70 lbs (U.S.) and .32 kg	

WARRANTY

LSI Logic RAID storage adapters provide high-performance SCSI and IDE solutions to leading server, disk array and computer systems worldwide. Using only the highest quality components, LSI Logic RAID storage adapters are assembled in world-class facilities to assure superior product reliability and performance. Because of stringent quality management programs, our RAID storage adapters carry a three-year limited warranty.

For more information please visit the LSI Logic web site at:
<http://lsilogic.com/storage>

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