

LSI LOGIC®

## High-Performance Zero-Channel RAID (ZCR) Storage Adapter Offers a Cost-Effective Way to Implement RAID in a Server

### Key Advantages

- Low profile form factor for 1U and 2U server environments
- Affordable upgrade to advanced RAID 5 features
- Battery backup support for greater fault tolerance
- PCI-X Interface for maximum data transfer rates

### Low-Cost, Powerful ZCR RAID Solution

The MegaRAID SCSI 320-OX zero-channel RAID (ZCR) adapter converts a motherboard's\* own onboard SCSI controller into a powerful RAID solution, allowing for an easy and low-cost upgrade path to Ultra320 RAID. This low profile, intelligent PCI-X to SCSI RAID adapter is ideal for 1U and 2U server environments. With 128MB integrated ECC SDRAM, battery backup support and the power of the Intel® IOP321 (400MHz) I/O processor, the MegaRAID SCSI 320-OX provides unmatched reliability, fault tolerance and performance.

### Motherboard Compatibility

To allow for maximum flexibility, the MegaRAID SCSI 320-OX features SCSI Interrupt Steering Logic (SISL) that allows the RAID adapter to control the LSI Logic SCSI controllers on the motherboard. This adapter is designed to use the onboard SCSI channels of motherboards utilizing either the LSI Logic LSI53C1020 or LSI53C1030 SCSI controller.\* Refer to [www.lsilogic.com](http://www.lsilogic.com) for the most updated list of compatible motherboards.



### Advanced Array Configuration and Management Utilities

LSI Logic offers both easy-to-use pre-boot configuration utilities for quick RAID setup and a sophisticated GUI-based online management console. This comprehensive software suite provides the capability to efficiently configure, monitor, and manage RAID systems locally or over a network.

### Extensive Operating System Support

The MegaRAID SCSI 320-OX supports all major operating systems, including Windows (2000, Server 2003, and XP), Red Hat Linux, SuSe Linux, Novell NetWare, SCO OpenServer, and UnixWare. All OS drivers are backed by extensive testing and validation to ensure optimum system performance.

#### ENVIRONMENTS

- Entry-level to mid-range 1U and 2U servers and workstations requiring a low cost RAID 5 solution.

#### FEATURES

- Low-cost RAID upgrade
- Half-size PCI form factor
- 64-bit/133MHz PCI-X performance
- Battery backup support
- Supports RAID levels 0, 1, 5, 10 and 50
- Ships with 128MB integrated ECC SDRAM
- 400MHz Intel® IOP321 processor
- FlexRAID® support
  - Online capacity expansion
  - Online RAID level migration



MegaRAID® SCSI 320-0X  
ZERO-CANNEL ULTRA320 PCI-X SCSI RAID ADAPTER

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

LSI Logic NA Headquarters

+1 866-574-5741

<http://lsilogic.com>

North American

Storage Adapter Sales & Support

+1 877-574-5644

<http://lsilogic.com/storageadapters>

LSI Logic European Headquarters

+44 1344-413200

UK / Ireland / Nordic Region /  
South Africa

+44 1344-413-115

France / Spain / Portugal

+33 14601-1340

Belgium/Netherlands/Luxemburg

+31 402-96-2111

Italy +39 039-687-3705

Central / Eastern Europe

+49 89-45833-312

Israel +49 7032-991373

Europe Advanced Technical Support

English +44 1344-413-441

Deutsch +49 89-45833-338

<http://lsilogic.com/support>

[eurosupport@lsil.com](mailto:eurosupport@lsil.com)

All Other EMEA

+49 89-45833-156

LSI Logic Pacific Asia Headquarters

Taiwan +866 2-2718-7828

Tokyo +81 3-5463-7821

Korea +82 2528-3400

Hong Kong +852 2192-1789

Singapore / South Pacific

+65 6334-9080

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S20180

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**LSI Logic MegaRAID SCSI 320-0X**

<b>Solution Provided</b>	Affordable solution offering advanced RAID features and performance using motherboards' onboard SCSI channels
<b>Environment</b>	Entry-level to mid-range 1U and 2U servers and workstations requiring a low cost RAID 5 solution
<b>Inside the Box (LSI00028)</b>	MegaRAID SCSI 320-0X adapter, low-profile bracket, software and documentation CD, Quick Install Guide
<b>Internal Connectors</b>	Uses Motherboard's own SCSI connectors
<b>Device Support</b>	Up to 30 devices using two SCSI channels
<b>Drive Data Transfer Rates</b>	Up to 640 MB/s across two Ultra320 SCSI channels
<b>Cache Memory</b>	128MB embedded ECC SDRAM
<b>Processor</b>	Intel® IOP321 I/O Processor (400MHz)
<b>Bus Type</b>	64-bit, 133MHz PCI-X (ZCR-enabled slot only)
<b>Physical Dimensions</b>	MD2 Low Profile (6.6" X 2.536")
<b>System Requirements</b>	One LSI53C1020 or LSI53C1030 SCSI controller
<b>RAID and Fault Tolerant Features</b>	<ul style="list-style-type: none"> <li>• RAID levels 0, 1, 5, 10, and 50</li> <li>• Fast initialization for quick array setup</li> <li>• Variable strip size support</li> <li>• Enhanced error handling and reporting</li> <li>• Flashable BIOS</li> <li>• 40 logical drive support</li> <li>• Drive hot plug support</li> <li>• Patrol Read</li> <li>• Configuration on Disk (COD)/NVRAM</li> <li>• Automatic rebuild of hot spare drives</li> <li>• S.M.A.R.T. support</li> <li>• FlexRAID power fail option</li> <li>• Online capacity expansion</li> <li>• Online RAID level migration</li> <li>• SAF-TE enclosure management</li> <li>• Battery backup support</li> <li>• Staggered drive spin-up</li> </ul>
<b>RAID Management</b>	<p>Online Utilities</p> <ul style="list-style-type: none"> <li>– Power Console Plus (GUI-based)</li> <li>– MegaManager (character-based)</li> </ul> <p>Pre-Boot Utilities</p> <ul style="list-style-type: none"> <li>– Ctrl. M (command line)</li> <li>– Ctrl. H (browser-based)</li> </ul>
<b>OS Support</b>	<ul style="list-style-type: none"> <li>• Microsoft® Windows® Server 2003/2000/XP</li> <li>• Red Hat® AS Linux®</li> <li>• Novell® Netware®</li> <li>• SuSE® Professional Linux®</li> <li>• SuSE® Linux® Enterprise Server (SLES)</li> </ul> <p>See <a href="http://www.lsiologic.com/downloads">www.lsiologic.com/downloads</a> for latest supported versions</p> <ul style="list-style-type: none"> <li>• FreeBSD®</li> <li>• SCO® Open Server®</li> <li>• SCO® UnixWare®</li> </ul>
<b>Operating Temperature</b>	55° C (w/o BBU card) 45° C (w/ BBU card)
<b>PCI Voltage(s) Used</b>	5.00 V, +12 V, -12V
<b>DC Power Supply</b>	14W
<b>Regulatory Certification</b>	CE, FCC, C-tic, ETL, VCCI, BSMI and RRL
<b>Warranty</b>	3 Years, Free Advanced Technical Support, Advanced Replacement Option