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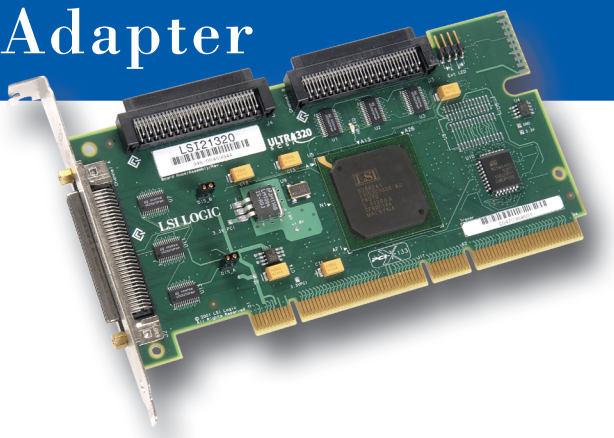
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# LSI21320
# SCSI Host Adapter




*The LSI21320 Ultra320 SCSI host adapter offers affordable, dual channel Ultra320 SCSI performance.*

## KEY APPLICATIONS

- High performance workstations
- Entry level to mid-range servers
- Internal/External storage

## FEATURES

- Ultra320 SCSI, PCI-X 133MHz
- 640 MBps of Ultra320 performance on two channels
- Fusion-MPT™ architecture featuring 100,000 I/Os
- Connects up to 30 internal/external devices such as JBOD, RAID, hard disk drives
- SureLINK™ technology ensures data integrity by intelligently validating the compatibility of the SCSI domain
- Supports all major OSs

**Host Bus:**
64-bit, 133 MHz PCI-X

**SCSI Chip:** LSI53C1030

**SCSI Bus:**
16-bit LVD or Single-Ended

**SCSI Performance:**
Ultra320 (320 MBps/channel)

**SCSI Connector Config:**
Internal: (2) 68-pin HD
External: 68-pin HD

**Max SCSI Devices:** 30

## STORAGE NETWORKING DESIGNED FOR WORKSTATIONS NEEDING INTERNAL AND EXTERNAL HIGH PERFORMANCE

The LSI Logic LSI21320 Ultra320 SCSI Dual Channel host adapter is ideal for high performance workstations needing high performance storage both internally and externally simultaneously without performance interruption. With 320 MBps and capability of up to 100,000 I/Os per second, this adapter is ideal for transferring high speed and high capacity data. Popular applications include video, data mining, Internet, email, graphics and other data intensive applications.

The LSI21320 adapter features two independent Ultra320 SCSI channels allowing an aggregate SCSI speed of 640 MBps. It supports up to 30 external/internal devices for the greatest flexibility in a SCSI solution. With PCI-X throughput of up to 1056 MBps, this adapter also capitalizes on maximum system performance for those systems needing it; yet is backward compatible with existing PCI systems. It features LSI Logic SureLINK domain validation technology ensuring data integrity by intelligently testing the network before completing negotiation. It also utilizes Fusion-MPT architecture that allows for thinner drivers for better performance (up to 100,000 I/Os per sec) while adding value and flexibility at the firmware level.

## WARRANTY

For more than 15 years, LSI Logic host adapters have been providing high-performance SCSI solutions to leading server, disk array and computer systems worldwide. Each host adapter carries a powerful chip built in LSI Logic's ISO 9001-certified fabrication facilities. Using only the highest quality components, LSI Logic host adapters are assembled and tested in world-class facilities to assure superior product reliability and performance. Because of stringent quality management programs, our host adapters carry a five-year limited warranty.

LSI LOGIC

HOST ADAPTERS

ULTRA320 SCSI

FUSION-MPT™ MESSAGE PASSING TECHNOLOGY

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# LSI21320 SCSI Host Adapter

## Technical Specifications

| | | |
|---|---|---|
| PCI Bus | 64-bit, 133 MHz PCI-X, backward compatible with PCI | |
| PCI Modes | Bus master DMA | |
| PCI Data Burst Transfer Rate | 132 MB/second (PCI 32-bit bus @ 33 MHz)<br>264 MB/second (PCI 64-bit bus @ 33 MHz)<br>528 MB/second (PCI 64-bit bus @ 66 MHz)<br>800 MB/second (PCI-X 64-bit bus @ 100 MHz)<br>1056 MB/second (PCI-X 64-bit bus @ 133 MHz) | |
| PCI Card Type | Universal add-in card (3.3V and 5.0V signaling) | |
| PCI Voltage | +5V ±5%, 3.3V ±0.3V | |
| PCI Form Factor | 3.5" x 6.6" | |
| PCI Power | 10 Watts, 0.5A @ +5VDC, 2.0A @ +3.3VDC | |
| Bracket | ISA/EISA, Full height | |
| Certification Level | PCI 2.2, PCI-X 1.0a, PCb2001 1.0 | |
| SCSI Bus | Wide Ultra320, LVD (Low Voltage Differential) and Ultra Wide SE (Single-Ended) 640 MBps for two SCSI channels | |
| SCSI Processor | LSI53C1030 | |
| Connectors | **External** | **Internal** |
| Channel A<br>Channel B | 68-pin HD<br>– | 68-pin HD<br>68-pin HD |
| Termination | Universal (LVD/SE) termination<br>Automatic cable detection per channel<br>Jumper disable per channel | |
| Termination Power | Self resetting 1.5A fuse per channel | |
| LED Indicators | 4-pin header for off-board LEDs | |
| BIOS Flash Memory | 512K x 8 flash EEPROM | |
| IM Memory | Integrated Mirroring option available | |
| Subsystem ID | SVID – 1000h | |
| | SSID – 1040h | |
| Environments | **Operating** | **Storage** |
| Temperature | 0°C to 55°C | -40°C to +105°C |
| Relative Humidity | 5 to 90% non-condensing | 5 to 90% non-condensing |
| MTBP | >300,000 hours | |
| Compliances | CE, VCCI, Canada, C-Tick, FCC class B, UL 94VO, BSMI, MIC | |

## Software Support

| OS Support | Versions |
|---|---|
| Windows | NT4.0, SP4 and above, 2000, 2000 SP1 and XP |
| Linux | 2.2 and 2.4 kernels |
| NetWare | 4.11, 4.2 and 5.X |
| UnixWare | 2.12 and 7.X |
| SCO Unix | 5.X |
| OS/2 | 3.0 or greater |
| Solaris | X86 versions 2.6, 2.7, and 2.8 |
| Sun Solaris | Versions 2.6 and greater, Open Boot PROM version 3.0 and greater |
| Utilities | Install, Flash, SCSI format, BIOS configuration, and NT configuration |
| Domain Validation | Windows NT, 2000 and XP/levels 1, 2, and 3 |
| Data Protection | CRC and AIP |
| Device Support | OBDR (Tape Booting) and Bootable CD-ROM |

For more information please visit the LSI Logic web sites at:
**http://storageio.lsilogic.com**
**http://adapters.lsilogic.com**


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