

LSI20320I-R SCSI HOST ADAPTER

KEY APPLICATIONS

- High performance workstations
- Entry-level Servers
- Integrated RAID (0, 1 and 1E)

FEATURES

- Ultra320 SCSI, PCI-X 133MHz
- 320 MBps
- Fusion-MPT architecture featuring 50,000 I/Os
- Connects up to 15 internal 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 Oses**
- **RoHS 6 Compliant**



The LSI20320I-R Ultra320 SCSI host adapter offers the Ultra320 SCSI performance for entry-level servers.

DELIVERING HIGH PERFORMANCE FOR TODAY'S Workstation and SERVERS!

The LSI Logic LSI20320I-R Ultra320 SCSI single channel host adapter is the right choice for increasing storage performance within entry-level servers and high performance workstations. With 320 MBps and capability of up to 50,000 I/Os per second, this adapter is ideal for transferring high speed and high capacity data. Designed for applications that don't require as many external connections, this cost effective solution gives you the performance you need, at a price that is right.

With PCI-X throughput of 1056 MBps, this adapter also capitalizes on maximum system performance for those systems needing it; yet is backward compatible with existing PCI systems. It utilizes Fusion-MPT architecture that allows for thinner drivers for better performance (up to 50,000 I/Os per second) while adding value and flexibility at the firmware level.

The Integrated RAID feature offers RAID 0 for higher performance and RAID 1/1E for higher reliability.

Ordering Information

Marketing	Internal
LSI20320I-R	L3-00114-01

Host Bus
64-bit, 133 MHz PCI-X
SCSI Bus
16-bit LVD or Single-Ended
SCSI Chip
LSI53C1020A
SCSI Performance
Ultra320 (320 MBps)
SCSI Connector Configuration
Internal: 68-pin HD
Maximum Number of SCSI Devices
15

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 MBps (PCI 32-bit bus at 33 MHz) 264 MBps (PCI 64-bit bus at 33MHz) 528 MBps (PCI 64-bit bus at 66 MHz) 800 MB/second (PCI-X 64-bit bus @ 100 MHz) 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	+5 V \pm 5% & 3.3V \pm 0.3V	
PCI Form Factor	6.6" x 2.54" (MD2 Card)	
PCI Power	4 Watts, 0.2 A @ +5VDC, 0.9 A @ +3.3 VDC	
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 Wide Ultra SE (Singled-Ended)	
SCSI Processor	LSI53C1020A	
Connectors	External	Internal
	na	68-pin HD
Termination	Universal (LVD/SE) Termination per channel	
Termination Power	Self resetting 1.5A fuse	
LED Indicators	4-pin header for off-board LEDs	
BIOS Flash memory	512K x 8 flash EEPROM	
Integrated RAID	RAID 0, 1 and 1E	
PCI Subsystem ID	SVID (Subsystem Vendor ID)	SSID (SubSystem ID)
	1000h	xxxxh
Environments	Operating	Storage
	Temperature	0° to 55° C
Relative Humidity	5 to 90% non-condensing	5 to 90% non-condensing
MTBF	> tbd	
Compliances	CE mark, VCCI, Canada mark, C-Tick, FCC class A, UL 94VO	

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 three-year limited warranty.

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

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