LSI LOGIC

Ideal Ultra320 SCSI Card for Tape and Peripheral Attachment

Key Advantages
- *Backward compatible with all previous SCSI generations and PCI slots*
- *Protects legacy hardware investment while enabling use of latest U320 devices*
- *Exceptional signal integrity and data reliability*
- *Wide range of OS and system support*

Ultra320 SCSI Performance and Reliability for Peripheral Attachment
The LSIU320, PCI-X single-channel Ultra320 SCSI HBA, is a general purpose card ideal for attaching JBODs, RAID arrays, tape drives, tape libraries, magneto-optical drives, DVD libraries and other SCSI peripherals to workstations and servers. Through its seamless backward compatibility with all previous SCSI generations and PCI host bus slot types, the LSIU320 protects your investment in existing hardware, while delivering superior Ultra320 performance. With support for up to 15 SCSI devices, the LSIU320 enables incredible flexibility in configuring your system. This makes the LSIU320 a great option for either upgrading an existing system or optimizing a new workstation or server.

Exceptional Signal Integrity and Data Reliability
The LSIU320 not only moves data blazingly fast, but it also insures unmatched data reliability and signal quality. With LSI Logic TolerANT™ technology, the card improves data integrity in less than ideal cabling environments. Additionally, SureLINK™ domain validation verifies that all devices are able to communicate at the negotiated SCSI transfer rate and optimizes the connection between the card and each device on the bus. The net result is exceptional data reliability and optimized performance.

Powered by Fusion-MPT
Based on LSI Logic's intelligent Fusion-MPT architecture, the LSIU320 provides outstanding I/O performance while enabling extremely high host processor efficiency. This means that there is virtually no burden placed on the Host CPU and throughput scales at very close to 100% as additional cards are added to a system. Additionally, the Fusion-MPT architecture enables an exceptionally thin, common device driver for any given OS.

Dependable Quality and Service
For more than 15 years, LSI Logic has provided high-performance SCSI HBA solutions to leading server, disk array, and systems providers worldwide. 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.

Wide Range of OS and System Support
The LSIU320 supports all key 32-bit and 64-bit versions of Microsoft Windows, Linux, Solaris as well as the x86, IA64, SPARC, AMD64 and EM64T system architectures. With this broad base of OS and system support, the LSIU320 is the ideal choice for attaching the most powerful SCSI peripherals to your workstation or server.

APPLICATIONS
- High performance desktops
- Workstations
- Entry-level and mid-range servers

TYPICAL USES
- Tape drives
- Tape libraries and autoloaders
- Magneto optical drives and libraries
- JBODs
- RAID storage enclosures
- DVD libraries

FEATURES
- Single-channel Ultra320 SCSI Card
  - 1 - internal 68-pin HD connector
  - 1 - external 68-pin HD connector
- Connects to Ultra320 SCSI, Ultra160 SCSI, Ultra2 SCSI, Ultra Wide SCSI, Ultra SCSI, Fast SCSI, and SCSI-2 devices
- Up to 15 internal/external devices supported
- 64-bit, 133 MHz PCI-X (compatible with 32-bit and 64-bit PCI)
- Standard PCI short card (6.6" x 3.27"; 16.8 cm x 8.3 cm)
- Supports bootable and non-bootable devices
- Fusion-MPT™ architecture

LSI LOGIC®

LSIU320
ULTRA320 SCSI SINGLE-CHANNEL HBA

	LSI Logic LSIU320 HBA
Solution Provided	General purpose, entry-level Ultra320 SCSI HBA for peripheral attachment
Environment Envisioned	Ideal for attaching JBODs, SCSI RAID Arrays, tape drives, tape libraries, Magneto Optical drives, DVD Libraries and other SCSI peripherals to workstations and servers

SCSI Bus	Ultra320, LVD (Low Voltage Differential) and SE (Single-Ended)	
SCSI Processor	LSI53C1020A	
Host Bus Type	64-bit/133MHz PCI-X (backward compatible with PCI)	
PCI Card Type	Universal add-in card (3.3V and 5.0V signaling)	
PCI Voltage	5V ±5%, 3.3V ±0.3V	
PCI Power	4 Watts, 0.2A @ +5VDC, 0.9A @ +3.3VDC	
PCI Subsystem ID	SVID – 1000h	
	SSID – 5100h	
PCI Data Burst Transfer Rates	132MB/s (PCI 32-bit bus @ 33MHz)	
	264MB/s (PCI 64-bit bus @ 33MHz)	
	528MB/s (PCI 64-bit bus @ 66MHz)	
	800MB/s (PCI-X 64-bit bus @ 100MHz)	
	1056MB/s (PCI-X 64-bit bus @ 133MHz)	
Internal Connector	One 68-pin HD	
External Connector	One 68-pin HD	
Termination	Universal LVD/SE	
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	N/A	
Device Support	Up to 15 internal/external SCSI devices	
Physical Dimensions	6.6" x 3.27" or 16.8cm x 8.3cm, standard PCI short card	
Bracket	Full height	
Environments	**Operating**	**Storage**
Temperature	0°C to 55°C	-45°C to 105°C
Relative Humidity	5 to 90% non-condensing	5 to 90% non-condensing
MTBF	>400,000 hours	
Warranty	3 years, free advanced technical support, advanced replacement options	
OS Support	• Microsoft™ Windows® NT4.0, SP4 and above, Server 2003, 2000, 2000 SP1 and XP • Red Hat® Linux® 2.2, 2.4, and 2.6 kernels • Novell® NetWare® 4.11, 4.2, 5.X and 6.5 • SCO® UNIXWare 2.12 and 7.X • SCO® UNIX 5.X • Solaris X86 2.6, 2.7 and 2.8 • Sun Solaris 2.6 and grater, Open Boot PROM 3.0 and greater	
Certification Levels	PCI 2.2, PCI-X 10a, PCb2001 1.0	
Compliances	EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04) Europe (EN55022/EN55024); Australia/New Zealand (AS/NZS 3548); Safety: EN60950	

ORDERING INFORMATION

Product Description	P/N	Packaging Description
LSIU320	LSI00011	Individually packaged box with LSIU320 HBA, CD with drivers, management utilities and user's guide, and installation guide
LSIU320 5PK	LSI00010	Five-Pack bulk box with five LSIU320 HBAs and five CDs with drivers, management utilities and user's guides