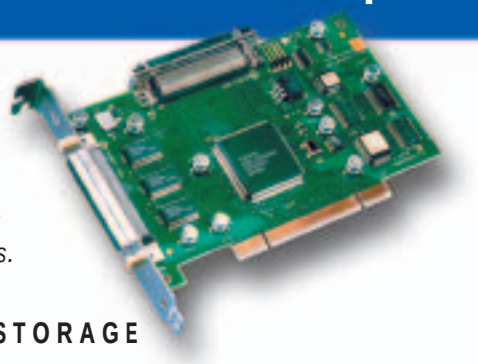
LSIU80ALVD
Ultra2 LVD SCSI Host Adapter



The LSIU80ALVD PCI-to-Ultra2 SCSI host adapter offers a low cost LVD SCSI connection for external storage ideal for backup or disaster recovery applications.

KEY APPLICATIONS

- High-performance desktop PCs and workstations
- Intersystem connections: server and workstation to RAID, network management
- Ultra2 (LVD) and Ultra SCSI tape drives in servers, workstations and high-end desktops

FEATURES

- High performance single channel Ultra2 SCSI solution
- Supports Ultra2 (80 MBps), Ultra (40 MBps) and Fast (20 MBps) SCSI
- Support LVD or Single-Ended (SE) SCSI devices
- SureLINK™ Domain Validation technology ensures data integrity
- Supports One-Button Disaster Recovery for tape drives for rapid data recovery

Host Bus:
32-bit PCI

SCSI Bus:
16-bit SE and LVD

SCSI Performance:
Ultra2 (80 MBps)

SCSI Connectors:
Internal: 68-pin HD
External: 68-pin HD

No. of SCSI Devices:
15

IDEAL FOR DIRECT ATTACH STORAGE

As part of LSI Logic's SCSI host adapter product family, the LSIU80ALVD PCI-Ultra2 SCSI host bus adapter is ideal for direct attach storage of tape and optical drive/libraries to a workstation or server. The Ultra2 LVD connection offers higher performance at 80 MBps, longer cable length of 12 meters and higher reliability than Ultra SCSI at an affordable price. The LSIU80ALVD supports wide (16-bit) Ultra2, Ultra, and Fast SCSI devices.

System design flexibility is provided by the LSIU80ALVD's ability to automatically switch from single-ended operation for legacy Fast/Ultra devices to universal low voltage differential (LVD) operation when LVD enabled or Ultra2 devices are connected. The LSIU80ALVD HBA incorporates LSI Logic's LVDlink™ (Low Voltage Differential) technology for superior performance, device connectivity and greater signal reliability. The LVDlink transceivers provide the data reliability of differential signaling without the high cost of high voltage differential (HVD) transceivers

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. Due to LSI Logic's stringent quality management programs, this host adapter carries a three-year limited warranty.

	Single-ended (SE)	LVD
Technology	Fast, Ultra	Ultra2*
Cable lengths (meters)	3	12 (devices) 25 point-to-point
Device supported	Single-ended	LVD

*Backward compatible with Fast and Ultra single-ended SCSI devices.

LSIU80ALVD ORDERING INFORMATION

Part Number	Description
LSI00007	Individually packaged box with LSIU80ALVD and CD with drivers, management utilities and user's guide
LSI00006	Bulk packaged LSIU80ALVD in multiples of 20 (OEM)

LSI LOGIC

HOST ADAPTERS

LSIU80ALVD Ultra2 LVD SCSI Host Adapter

Technical Specifications

PCI Bus	32-bit, 33 MHz max	
PCI Modes	Bus master DMA	
PCI Data Burst Transfer Rate	132 MB/second (PCI 32-bit bus @ 33 MHz)	
PCI Card Type	Universal add-in card (3.3V and 5.0V signaling)	
PCI Voltage	+5V ±5%	
PCI Form Factor	3.5" x 6.0"	
PCI Power	7.5 Watts, 1.5A @ +5VDC	
Certification Level	PCI 2.1	
SCSI Bus	Wide Ultra2, LVD (Low Voltage Differential) and Ultra Wide SE (Single-Ended)	
SCSI Processor	LSI53C895A	
Connectors	**External**	**Internal**
	68-pin HD	68-pin HD
Termination	Universal (LVD/SE) termination Automatic cable detection	
LED Indicators	4-pin header for off-board LEDs	
BIOS Flash Memory	128K x 8 flash EEPROM	
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	>500,000 hours	
Compliances	CE, VCCI, Canada, C-Tick, FCC class B, UL 94VO	

Software Support

OS Support	Versions	Processor Support
Windows	2000 - SP1 and 2 XP 2003	X86, IPF
Linux	2.4 and 2.6 kernels (Redhat and SuSe)	X86, IPF, AMD64 and EM64T
NetWare	5.1, and 6.5	
UnixWare	7.1.X	
SCO	Unix 5.X	
Solaris	X86 versions 8	
Sun Solaris	Versions 2.6 and greater, Open Boot PROM version 3.0 and greater	
Utilities	Flash, BIOS configuration and IR configuration	

INSTALLATION INSTRUCTION FOR WINDOWS NT4.0

Windows 2000, XP and Server 2003 have the driver included on the Windows CD

1. Create Windows driver disk for the LSI Logic SCSI card (download from web site) http://adapters.lsilogic.com
2. Boot with Windows CD
3. Press F6 key when the screen displays "Setup is inspecting your computer's hardware configuration"
4. Choose "S" to specify an additional device when the screen displays "Setup has recognized the following mass storage devices in your computer..."

   a) Install the driver disk made in step 1 in the floppy drive and follow instructions
5. Continue with the Windows install
6. Install the latest service pack

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

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