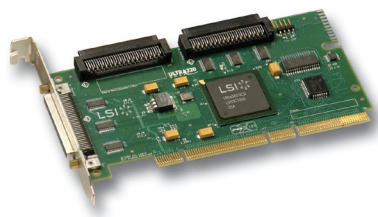


LSI21320-R

Ultra320 SCSI Dual-Channel HBA



APPLICATIONS

- High performance workstations
- Tower and rackmount servers
- Internal and external storage

TYPICAL USES

- Ultra320 internal storage and external tape backup
- Ultra320 internal storage, legacy internal connection, and external tape backup
- Ultra320 internal storage and external connection to storage subsystem
- Data intensive applications including print, email, web and database servers
- Video/audio editing
- Data mining
- Scientific simulation

FEATURES

- PCI-X to dual-channel Ultra320 SCSI adapter
- Fusion-MPT™ architecture
- Integrated Hardware RAID (0,1)
- SureLINK™ technology ensures data integrity by intelligently validating the SCSI domain
- Supports all major OSs

Benefit from Ultra320 SCSI with highly flexible connectivity

KEY ADVANTAGES

- Outstanding Flexibility for Ultra320 & Legacy Device Connectivity
- Exceptional Dual-Channel Ultra320 SCSI Performance
- Integrated Hardware RAID (0, 1)
- Wide Range of OS and System Support

Dual-Channel with Flexible Connectivity

The LSI21320-R Ultra320 SCSI dual-channel host adapter is ideal for workstations and servers needing a high-performance boot volume and connectivity to legacy devices, tape backup, or external storage. The LSI21320-R features two independent Ultra320 SCSI channels allowing a combined maximum throughput of 640MB/s. With support for up to 30 devices it offers incredible flexibility in system configuration. The LSI21320-R supports all previous generation SCSI devices and is backward compatible to 32-bit, 33MHz PCI. This makes the LSI21320-R a great option whether used to upgrade an existing system or optimize a new workstation or server.

Exceptional Signal Integrity

The LSI21320-R not only moves data blazingly fast, it also insures unmatched data reliability and signal quality. With LSI TolerANT™ technology, the card improves data integrity in less than ideal cabling environments. 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 optimized performance.

Powered by Fusion-MPT

Based on LSI Fusion-MPT (Message Passing Technology) architecture, the LSI21320-R provides outstanding I/O performance while allowing extremely high host processor efficiency. Fusion-MPT permits an exceptionally thin device driver that's common to all Fusion-MPT devices used in a given OS.

OS Independent Hardware RAID (0,1)

LSI Integrated RAID provides the reliability and performance benefits of disk mirroring (RAID 1) and striping (RAID 0). Integrated Mirroring™ (IM) provides data protection for the system boot volume by simultaneously writing redundant data across two to six disks. This provides fault tolerance and safeguards critical information. Integrated striping yields enhanced performance by aggregating the bandwidth of up to six disk drives. Integrated Striping provides a significant boost in applications where maximum performance is essential. LSI Integrated RAID is OS-independent and does not require the use of special device drivers.

Dependable Quality and Reliability

For more than 15 years, LSI has provided high-performance SCSI HBA solutions to leading server, disk array, and systems providers

worldwide. Using only the highest quality components, LSI 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 & System Support

The LSI21320-R supports all key 32-bit and 64-bit versions of Microsoft Windows, Linux, Solaris and x86, IA64, SPARC, and AMD64 system architectures. With this broad base of OS and system support, the LSI21320-R is the

ideal choice for attaching the most powerful hard disk drives and SCSI peripherals to your workstation or server.

LSI21320-R HOST BUS ADAPTER		
SCSI Bus	Ultra320, LVD (Low Voltage Differential) and Ultra Wide SE (Single-Ended)	
SCSI Processor	LSI53C1030	
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 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	Two 68-pin HD	
External Connector	One 68-pin HD	
Termination	Universal (LVD/SE) termination, auto cable detection per channel	
Device Support	Up to 30 internal/external SCSI devices	
Physical Dimensions	6.6" x 3.5" or 16.76cm x 8.89cm	
Operating Temperature	0°C to 55°C	
Operating Voltage	+5V ±5%, 3.3V ±0.3V	
System Architectures Supported	X86, IA64, SPARC, AMD64	
Warranty	3 years, free advanced technical support, advanced replacement options	
OS Support	Microsoft™ Windows® NT4.0, 2000 and Server 2003 Red Hat® Linux® 7.0, 7.1, 7.2, 8.0 (32- & 64-bit), 7.3, ASE 2.1 Caldera 3.1, 3.1.1 • Solaris SPARC Novell® NetWare® 5.1 and 6.0 • Suse® Linux® 7.2, 7.3, 8X (32- & 64-bit) Solaris X86 • Open UNIX 8 SCO® OSR UNIX 5.0 • SCO® UNIXWare 7.X	
Compliances	CE, VCCI, Canada, C-Tick, FCC class B, UL 94VO	
Ordering Information	LSI21320R-KIT-F	Individually packaged box with LSI21320-R HBA, one internal, five-drive LVD 68-pin, 42 inch cable with termination; CD with drivers, management utilities and user's guide
	LSI21320RB-F	Individually packaged box with LSI21320-R HBA and CD with drivers, management utilities and user's guide



For more information and sales office locations, please visit the LSI web sites at: lsi.com lsi.com/contacts

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