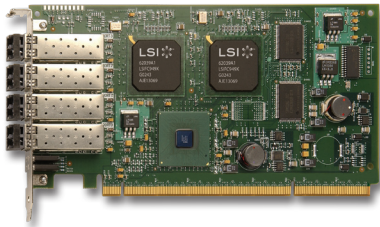# LSI7104XP/LSI7204XP/LSI7404XP

4Gb PCI-X Adapter Series

4Gb PCI-X Adapter Series Offer Faster Server to San Connectivity and Improved Data Protection

KEY ADVANTAGES

- *Intel/AMD/SPARC Servers*
- *SAN switch or JBOD (disk) attach*
- *Storage backup and recovery*
- *Storage virtualization appliance*
- *Digital video networks*
- *Tiered storage application*

FEATURES

- A vailable one, two or four ports – All ports, full duplex, 800MB/s
- Auto-speed (1, 2, and 4Gb/s) – Includes SFP optics
- PCI-X versions: 66, 100, 133MHz, 32 and 64 bit
- SCSI initiator, target and initiator/target modes
- Over 160,000 I/Os per second
- Link speed/activity LED(s)
- End-to-end data integrity (T10 DIF support)
- FCP-2 tape support
- FC class-3 support
- MyStorage™ Management allows centralized management and remote control
- Support 126 alias ALPA
- Connect directly to RAID, Disk or Switch equipment
- ARM® CPUs for FC offload
- Supports bootable devices
- All Major OS drivers
- Fusion-MPT™ compliant
- 3 year limited warranty

Our 4Gb/s Fibre Channel adapter series was devised to fulfill virtually any storage connection need or environment, whether data mining, video and media streaming, or high availability. These adapters were engineered to deliver unsurpassed performance, high port density, easy installation and can accommodate PCI-X host platforms. Each adapter features full duplex capable FC ports, that automatically detect connection speed, and can each independently operate at 1, 2 or 4Gb/s. The ability to operate at slower speeds ensures these adapters remain fully compatible with legacy equipment. All adapters also support new end-to-end error detection (CRC) for improved data integrity when reading or writing disks. The ANSI T10 committee developed and endorses this new protection standard.

MyStorage Management Software

MyStorage Management Software is a host software package designed to simplify management of LSI Fibre Channel adapters. New users will appreciate the simple, three–click installation and its "auto-everything" intelligence. Advanced users will find the utility provides all the features to finetune the adapter operation for specific applications in even the most complex SAN environments. MyStorage software is prefigured with ease of use in mind, whether you're deploying a simple SAN for mid-range applications or a more complex enterprise data center.

Fusion-MPT Architecture

These Fibre Channel host adapters use LSI's powerful FC949X controller, which implements the Fusion-MPT (Message Passing Technology) architecture. Each controller features multiple, embedded ARM® processors that deliver maximum host CPU offload. The built-in intelligence enables LSI to publish a single OS driver to operate any Fusion-MPT controller or adapter. Fusion-MPT enables LSI to quickly offer new adapters with a rich compliment of OS drivers, each with proven track records and years of successful run time.

LSI7104XP/LSI7204XP/LSI7404XP 4GB FIBRE CHANNEL ADAPTER SERIES			
ADAPTER MODEL	**LSI7104XP-LC**	**LSI7204XP- LC**	**LSI7404XP-LC**
External Port Quality	Single (x1)	Dual (x2)	Quad (x4)
External Connector(s)	Fibre Channel LC style Pluggable (SFP), multimode optics (850nM)		
LED Indicators (per Port)	1 tricolor speed: Blue = 4G, Green + 2G, Amber = 1G		
Data Transfer Rates	Full duplex 800MB @ 4Gb, (400MB @ 2Gb, 200MB @ 1Gb)		
Supported Architectures	x86, IA64, SPARC, AMD64, EM64T		
Host Bus Type	64-bit/133MHz PCI-X 1.0a (backwards compatible with 32 bit, 33/66/100MHz systems, PCI 2.2)		
Operating V oltage	3.3V operation, keyed to fit in 3.3V slot only		
Power Consumption	<7.5 Watts	<7.5 Watts	<25 Watts
Protocols	SCSI-FCP, FCP2, FC-tape		
Topology	Point-to-point, arbitrated loop, switched fabric (N_port, NL_port, FL_port, F_port)		
Class of Service	Class 2 Ack 0 and Class 3		
ANSI F C Standards	FC-PH, FC-AL2, FC-FCP, FC-PLDA, FC-FLA, FC-tape		
Agency Certification	CE, VCCI, Canada, C-tick, FCC class A, UL 94VO		
Size	Low profile, MD2, 6.6" x 2.53"	Low profile, MD2, 6.6" x 2.53"	Full height, 6.875" x 4.2"
SOFTWARE			
MyStorage	Exceptionally easy to use and comprehensive HBA configuration and management (available on Windows and Linux platforms)		
OS Driver Support	• Windows Server 2003 (includes STORport and miniport), Window 2000, Windows XP • SCO OpenServer 5.x • Solaris x86, version 2.8 through 10 • Solaris SPAR C, version 2.6 through 10 • Linux Red Hat (Intel x86, Intel Itanium, Intel EM64T, AMD64): RHEL 2.0, 3.0, 4.0, 5.0 • Linux SuSE (Intel x86, Intel Itanium, Intel EM64T, AMD64): SLES 8.0, 9.0, 10.0 • Linux Fedora Professional		
ENVIRONMENTAL CONDITIONS			
Operating Temperature	0°C to 55°C (dry bulb)		
Storage Temperature	-40°C to 105°C (dry bulb)		
Relative Humidity	5% to 90% non-condensing		
Max Dew Point	32°C		
Warranty	3 years, advanced replacement option, free advanced technical support at *www.lsi.com/support*		

Warranty

For more than 15 years, LSI 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 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 and sales office locations, please visit the LSI web sites at: lsi.com lsi.com/contacts