

Sun StorageTek™ Enterprise 4Gb PCI-E Fibre Channel Host Bus Adapters

The Sun StorageTek™ Enterprise 4Gb to PCI Express Fibre Channel host bus adapter family offers highly integrated connectivity solutions for enterprise-class storage area networks (SANs). With PCI Express host bus platform support and 4Gb Fibre Channel link speeds, this host bus adapter solution delivers unsurpassed performance and flexibility for your most demanding storage networking applications.

Featuring the award-winning LightPulse® HBA architecture from Emulex, the StorageTek SG-XPCIE1FC-EM4 (single channel) and SG-XPCIE2FC-EM4 (dual channel) host bus adapters are ideal for SAN environments that need to perform to today's most rigorous standards.

Highlights

- Enterprise-class HBAs ideal for large or mixed OS SAN environments
- Features the award-winning LightPulse® HBA architecture from Emulex
- Single- and dual-channel 4Gb/s Fibre Channel to PCI Express x4 models
- Full fabric support with automatic topology and speed adaptation
- End-to-end parity protection for high data integrity
- Simultaneous on-board support for x64/x86 BootBIOS (Windows and Linux) and Solaris™ SPARC OpenBoot
- On-board hardware context cache for superior fabric support and high-transaction performance
- Large on-board data buffer supports over 150 meters cabling at full 4Gb/s FC bandwidth

High-Performance SAN Connectivity

The Sun StorageTek SG-XPCIE1FC-EM4 (single channel) and SG-XPCIE2FC-EM4 (dual channel) HBAs are ideal for Sun customers who require an enterprise-level 4Gb Fibre Channel connectivity solution and are implementing the latest in host bus architectures with PCI Express. These HBAs provide the flexible functionality and high performance required for SAN implementations.

PCI Express

Designed for servers with the high-performance next generation serial host bus called PCI Express, these HBAs eliminate many of the inefficiencies of parallel PCI and PCI-X architectures. With lower pin counts and lower power consumption requirements, these PCI Express host bus adapters also reduce system level power requirements. Most importantly though, PCI Express is backward compatible with PCI and PCI-X addressing, which allows all existing applications and Operating Systems to function unchanged.

Superior Design

The award-winning LightPulse® HBA architecture from Emulex raises the bar in performance I/O computing by combining

high performance RISC microprocessors with integrated 4Gb SERDES and an advanced Fibre Channel protocol engine for superior performance and best-in-class server CPU offload.

Flexibility

A robust feature set, combined with comprehensive testing and support from Sun Microsystems, helps ensure that the Sun StorageTek Enterprise 4Gb Fibre Channel family of host bus adapters provides the flexibility and interoperability needed for complex, highly scalable heterogeneous SANs. Flexible multi-platform support includes numerous OS, server and storage platforms.

High Quality, Multi-platform Support

- Scale-up SPARC
- Scale-out/grid computing x64/x86
- Multi-Boot support, same HBA can be redeployed to different OS and architecture without firmware change or re-flash

Multiple Models Available

- Sun StorageTek SG-XPCIE1FC-EM4 (single channel HBA)
- Sun StorageTek SG-XPCIE2FC-EM4 (dual channel HBA)

Product Name

Sun StorageTek SG-XPCIE1FC-EM4
(single channel HBA)

Sun StorageTek SG-XPCIE2FC-EM4
(dual channel HBA)

Supported Operating Systems

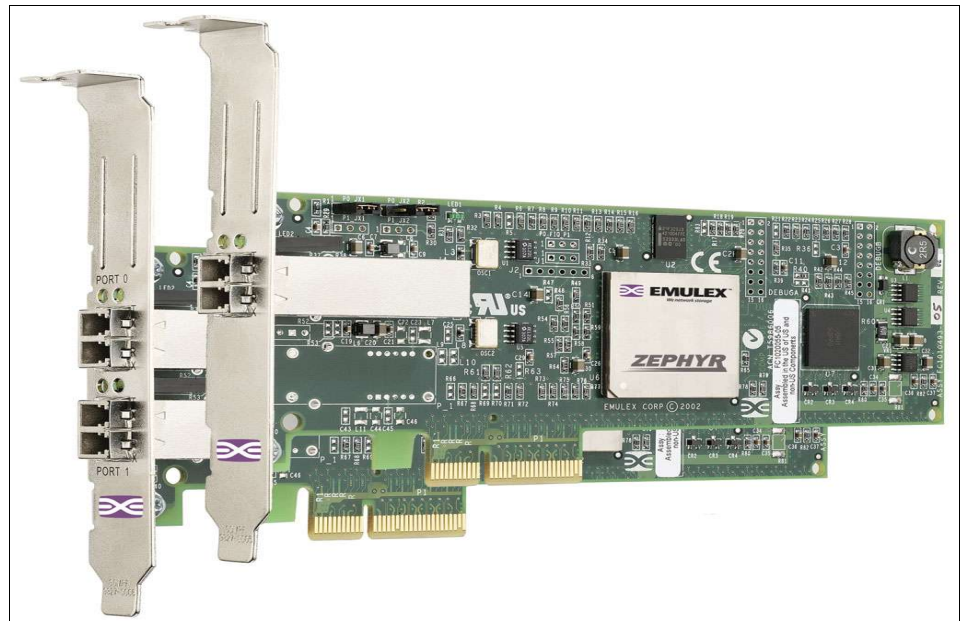
- Sun Solaris 10
- RedHat RHEL 3 IA32/AMD64
- RedHat RHEL 4 IA32/AMD64
- SUSE SLES 9 SP1 IA32/AMD64
- Windows Server 2000 IA32/AMD64
- Windows Server 2003 IA32/AMD64

Supported Server Platforms

- Sun Fire T2000
- Sun Fire X2100

Supported Storage Platforms

- Sun StorEdge:
 - 3510 / 3511
 - 6320 / 6020 / 6120
 - 6130, 6920
 - 9990 / 9985 / 9980 / 9970
 - L25 / L100 Tape Libraries
 - L500 Tape Library
 - L180, L700 Tape Libraries
 - L5500, L6000, L8500 Tape Libraries



Sun StorageTek SG-XPCIE1FC-EM4 & SG-XPCIE2FC-EM4 Host Bus Adapters

Fibre Channel Switches

- Brocade 2400, 2800, 6400
- Brocade 200E, 48000
- Brocade Silkworm 3200, 3800, 3900, 4100, 12000
- QLogic SANbox 2 – 8, 16, 64 port
- QLogic 5200
- McData 3032, 3232, 4300, 4500, 6064, 6140

Physical Dimensions

- 167.64mm x 64.42mm
6.60 inches x 2.54 inches

Environment

- Operating Temperature:
0° - 55°C (32° - 131°F)
- Storage Temperature:
-40° - 70°C (-40° - 158°F)
- Relative Humidity:
5% to 95% non-condensing
- Airflow Required:
100 lf/m

Standards

- PCI Express base spec 1.0a
- ANSI Fibre Channel:
FC-FS, FC-PH-3, FC-PI-2, , FCP-2,
FC-AL-2, FC-GS-4, FC-PLDA, FC-
FLA, FC-TAPE
- Fibre Channel Class 3
- PHP hot plug-hot swap

Optical

- Data Rates: 1.0625, 2.125 & 4.25GB/s
(auto-detected)
- Optics: short wave lasers with LC type
connector
- cable: 50/125um, up to 150m at 4Gb/s,
62.5/125um, up to 100m at 4Gb/s

