

Sun StorEdge™ Enterprise 2Gb Fibre Channel Host Bus Adapters

The Sun StorEdge™ Enterprise 2Gb Fibre Channel host bus adapter family offers highly integrated connectivity solutions for enterprise-class storage area networks (SANs). Featuring the award-winning LightPulse® HBA architecture from Emulex, this family of host bus adapters balances the advanced bus speeds of PCI-X with exceptional 2Gb/s Fibre Channel performance.

Ideal for large or mixed OS environments, the Sun StorEdge Enterprise 2Gb Fibre Channel host bus adapter family provides the optimum I/O connectivity solution for a wide spectrum of server, storage and system area networks.

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 PCI-X to 2Gb/s Fibre Channel 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 50km cabling at full 2Gb/s FC bandwidth

High-Performance SAN Connectivity

The Sun StorEdge SG-XPCI1FC-EM2 (single-channel) and SG-XPCI2FC-EM2 (dual-channel) HBAs are ideal for customers who require an enterprise-level 2Gb FC connectivity solution. These HBAs provide the flexible functionality and high performance required for SAN implementations. Engineered for maximum bandwidth, the Sun StorEdge single and dual channel HBA products support both 2Gb Fibre Channel and 133MHz PCI-X, resulting in the union of the two fastest I/O technologies.

The award-winning LightPulse® HBA architecture from Emulex raises the bar in performance I/O computing by combining high performance RISC microprocessors with integrated 2Gb 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 StorEdge Enterprise 2Gb 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
- Open SAN
- Multi-Boot support, same HBA can be redeployed to different OS and architecture without firmware change or re-flash

Multiple Models Available

- Sun StorEdge SG-XPCI1FC-EM2 (single-channel HBA)
- Sun StorEdge SG-XPCI2FC-EM2 (dual-channel HBA)

Product Name

Sun StorEdge SG-XPCI1FC-EM2
(single-channel HBA)

Sun StorEdge SG-XPCI2FC-EM2
(dual-channel HBA)

Supported Operating Systems

- Sun Solaris 10/9/8
- RedHat RHEL 3.0 U3 & U4, IA32/AMD64
- RedHat RHEL 4.0 IA32/AMD64
- SUSE SLES 8 SP3 IA32/AMD64
- SUSE SLES 9 SP1 IA32/AMD64
- Windows Server 2000 IA32/AMD64
- Windows Server 2003 IA32/AMD64

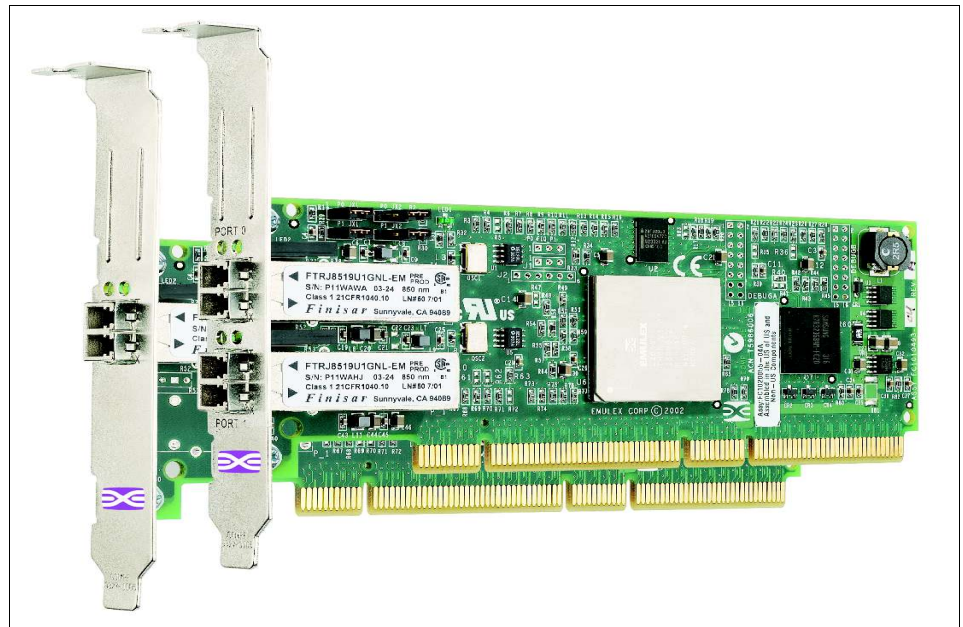
Supported Server Platforms

- SunBlade 1000, 2000, 2500
- Sun Fire V210 (1), V240 (2), V250, V440 (6), V480(4), V490(6), V880(9), V890(9), E4800(15), E4810, E6800 (15), V1280(6), E2900(6), E4900(15), E6900(15), E12K(34), E15K(51), E20K(34), E25K(51), 280R, V20z(2), V40z(5)
- Netra 20, 240(2), 440(6), 1280(6), 1400/1405

Note: (x) = max. qty of HBAs supported

Supported Storage Platforms

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



Sun StorEdge SG-XPCI1FC-EM2 & SG-XPCI2FC-EM2 Host Bus Adapters

Fibre Channel Switches

- Brocade 2400, 2800, 6400
- 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° - 45°C (32° - 113°F)
- Storage Temperature:
-40° - 70°C (-40° - 158°F)
- Relative Humidity:
5% to 95% non-condensing
- Airflow Required:
100 lf/m

Standards

- PCI-X 1.0a and PCI 2.3
- ANSI Fibre Channel:
FC-FS, FC-PH, FC-PI, FCP, FCP-2, FC-AL, FC-PLDA, FC-MI, FC-FLA, IETF IP over FC
- Fibre Channel Class 3
- PHP hot plug-hot swap

Power Consumption

- Power @ 66MHz (typical/max):
SG-XPCI1FC-EM2 (single channel)
7.1/10.1 Watts
SG-XPCI2FC-EM2 (dual channel)
9.1/12.9 Watts
- Power @ 100/133MHz (typical/max):
SG-XPCI1FC-EM2 (single channel)
7.5/10.6 Watts
SG-XPCI2FC-EM2 (dual channel)
10.1/14.4 Watts