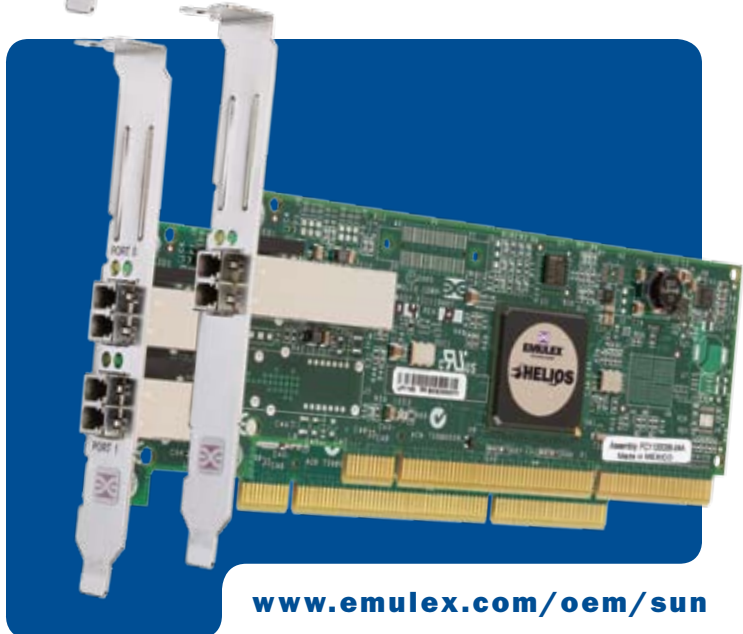
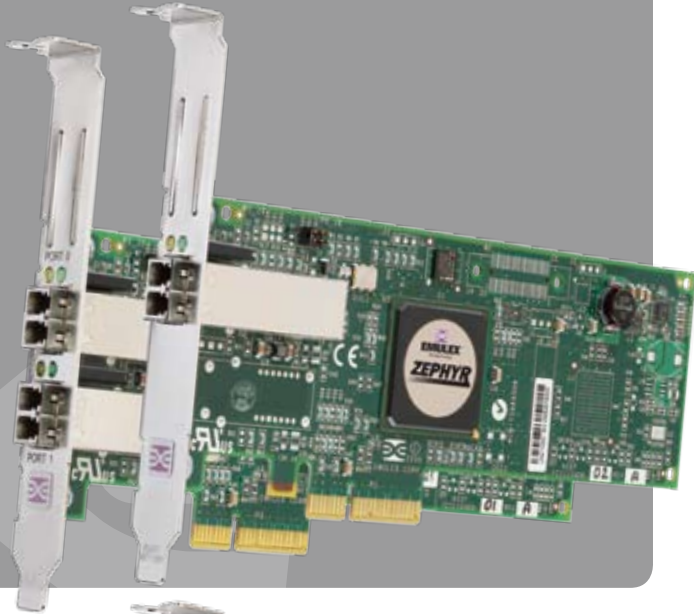


# Sun Fibre Channel HBAs

## MAJOR FEATURES

- Enterprise-class HBAs ideal for large or mixed OS SAN environments
- 4Gb/s and 2Gb/s single and dual channel models available
- PCI-X and PCI Express models available
- Features the award-winning Emulex<sup>®</sup> LightPulse<sup>®</sup> HBA architecture
- Full fabric support with automatic topology and speed adaptation
- 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
- RoHS Directive (2002/95/EC) Compliant



[www.emulex.com/oem/sun](http://www.emulex.com/oem/sun)

## Family of PCI Express (PCIe) and PCI-X Host Bus Adapters

Sun Microsystems ships Sun-branded Emulex Fibre Channel host bus adapters certified for Sun servers and storage. Meeting strong end user demand, Sun brands, distributes and supports custom versions of the Emulex LP11000, LPe11000 and LP10000 families of HBAs. As an integral part of Solaris OS distributions, these Emulex-based connectivity solutions enable end users to leverage Sun support and realize the benefits of Sun's native Fibre Channel aware SAN Foundation Software applications, commonly referred to as "Leadville," while benefiting from the robust performance of Emulex SAN connectivity.

With a large installed base within Solaris OS environments, Emulex has a longstanding history of supporting our mutual customers. This Sun/Emulex business partnership enables the two companies to jointly meet the needs of Sun's large end user customer base. Sun-branded Emulex HBAs provide the robustness, scalability and performance benefits that fully complement the features and benefits of the Solaris OS.

In addition, Sun-branded Emulex HBAs are also supported by Sun for Windows and Linux server attachment, as part of Sun's Open SAN initiative. A major benefit for large heterogeneous data centers is Emulex's universal boot capability that allows a user to seamlessly deploy the same HBA, including Fibre Channel boot, across multiple hardware architectures and operating systems.

Key benefits of Sun-branded HBAs from Emulex:

- Sun brands, distributes and supports custom versions of the Emulex LightPulse Family of HBAs
  - Sun-branded Emulex HBA drivers are tested, shipped and supported as an integral part of Solaris 10, 9 and 8 distributions
  - Support for Windows (2000 and 2003) and Linux (RHEL and SLES) as part of Sun's Open SAN initiative
- High quality multi-platform support
  - Scale-up SPARC
  - Scale-out/grid computing x64/x86
  - Open SAN
  - Multi-Boot support, same HBA can be re-deployed to different OS and architecture without firmware change or re-flash
- Experience and trust with Emulex quality
  - Complements existing large installed base of Emulex HBAs in Solaris, Windows and Linux environments

# Sun Fibre Channel HBAs

**Family of PCI Express (PCIe) and PCI-X Host Bus Adapters**

**SUN-BRANDED MODELS TO CHOOSE FROM**

- **4Gb/s Fibre Channel to PCI-X:**
  - StorageTek SG-XPCI1FC-EM4-Z (Single Channel)
  - StorageTek SG-XPCI2FC-EM4-Z (Dual Channel)
- **4Gb/s Fibre Channel to PCI Express x4:**
  - StorageTek SG-XPCIE1FC-EM4 (Single Channel)
  - StorageTek SG-XPCIE2FC-EM4 (Dual Channel)
- **2Gb/s Fibre Channel to PCI-X 133MHz:**
  - StorEdge SG-XPCI1FC-EM2 (Single Channel)
  - StorEdge SG-XPCI2FC-EM2 (Dual Channel)

**SUPPORTED SERVER PLATFORMS**

4Gb/s PCI Express models:  
Sun Fire T2000, X2100

4Gb/s and 2Gb/s PCI-X models:  
SunBlade 1000, 1500, 2000, 2500  
Sun Fire V210, V240, V250, V440, V480, V490, V880, V890, E4800, E4810, E6800, V1280, E2900, E4900, E6900, E12K, E15K, E20K, E25K, 280R, V20z, V40z, x4100, x4200, T2000  
Netra 20, 240, 440, 1280, 1400/1405

**SUPPORTED OPERATING SYSTEMS**

Sun Solaris 10  
Solaris 9 and 8 (PCI-X models only)  
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 SUN STORAGE PLATFORMS**

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

**PHYSICAL DIMENSIONS**

167.64mm x 64.42mm  
6.60" x 2.54"

**ENVIRONMENT**

Storage Temperature:  
-40° - 70°C (-40° - 158°F)

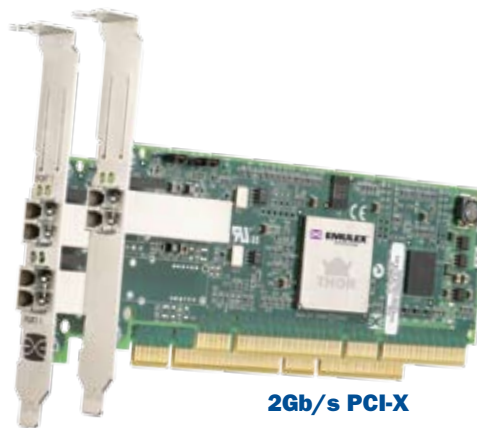
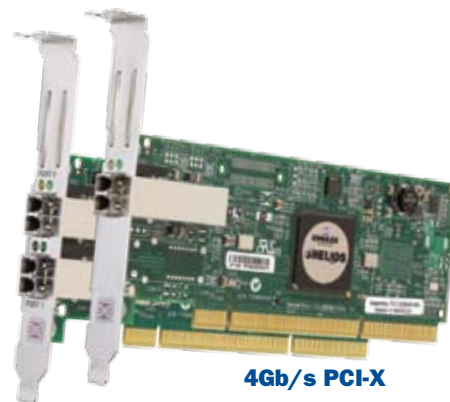
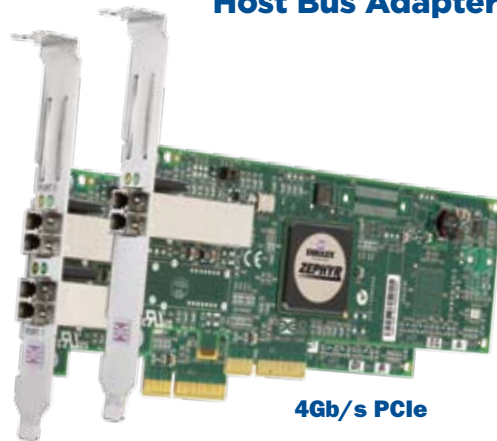
Relative Humidity:  
5% to 95% non-condensing

Airflow Required:  
100 lf/m

Operating Temperature:  
2Gb/s models:  
0° - 45°C (32° - 113°F)  
4Gb/s models:  
0° - 55°C (32° - 131°F)

**STANDARDS**

PCI Express base spec 1.0a (4Gb/s PCIe models only)  
PCI-X 2.0 (4Gb/s PCI-X models only)  
PCI-X 1.0a and PCI 2.3 (2Gb/s models only)  
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



06-371 5/06

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Additional Information  
[www.emulex.com/oem/sun](http://www.emulex.com/oem/sun)