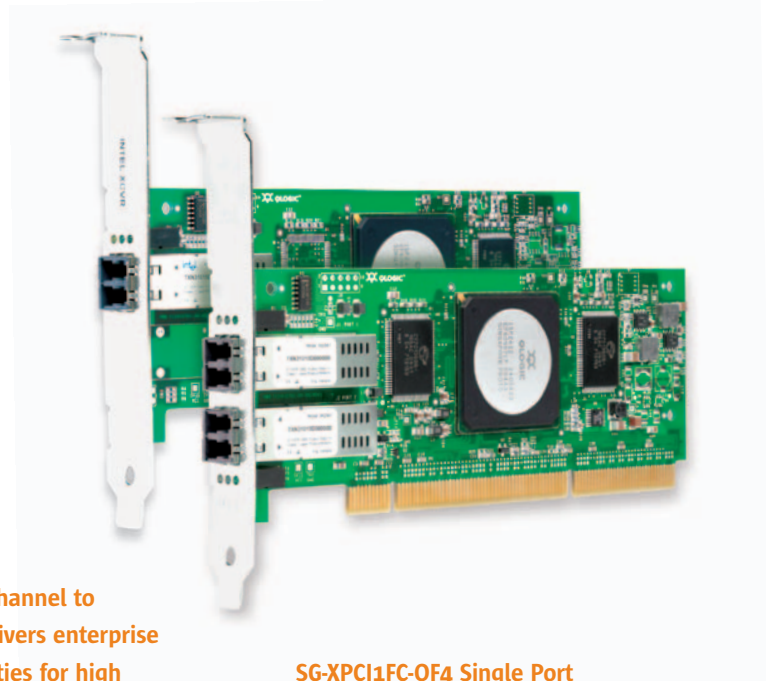


# Sun StorageTek™ Enterprise 4Gb Fibre Channel to PCI-X Host Bus Adapters

## Features and Benefits

- 4Gbps FC increases aggregate throughput rate to 1.6GBps (dual port) in full-duplex mode
- 64-bit, PCI-X 2.0 266-MHz dual data rate (DDR) bus for high throughput applications
- Single and Dual 4Gbps FC Ports
- 200,000 IOPS for dual port HBAs delivers high I/O transfer rates for storage applications
- SANsurfer® Pro allows for centralized management and remote control
- Three LEDs display real-time status and link activity information
- Overlapping protection domains for continuous protection of internal data paths
- Universal boot support manages multiple hardware platforms and boot options
- Storage networking industry association (SNIA) HBA application programming interface (API), and storage management interface Specification (SMI-S) compliant
- RoHS 6 compliant



**4Gbps Fibre channel to  
PCI-X HBA delivers enterprise  
class capabilities for high  
performance SPARC, x86 and  
x64 Sun Servers**

**SG-XPCI1FC-QF4 Single Port  
SG-XPCI2FC-QF4 Dual Port**

### Lower Total Cost of Ownership

The Sun StorageTek Enterprise Class 4Gb Fibre Channel PCI-X Host Bus Adapter is a high performance 4/2/1 Gbps HBA capable of providing throughput rates up to 1.6 GBps (dual port) in full-duplex mode. The 4Gb FC PCI-X Host Bus Adapter ensures that Sun customers make better use of bus slots in Sun's existing line of high performance PCI X bus based servers by using fewer HBAs to achieve the same capacity as with 2 Gb Fibre Channel HBAs, but now using half the number of bus slots.

### Proven SAN solution

Combined with the high-performance of Sun's latest 4Gbps storage disk and tape arrays, the 4Gb FC PCI-X Host Bus Adapter provides an end-to-end high performance 4Gbps SAN solution.

### The Sun HBA Advantage

Designed specifically for high performance servers with PCI X 2.0 bus, the Sun StorageTek Enterprise 4Gb FC PCI-X HBA (SG-XPCI1FC-QF4/SG-XPCI2FC-QF4) delivers high performance (aggregate throughput rates of 1.6 GBps in full duplex mode), suitable for demanding storage applications. It delivers unmatched performance by leveraging a single ASIC design, combining a unique hardware architecture to deliver over 200,000 IOPS, nearly 1.6GBps throughput, and support for PCI X 2.0 bus speeds in addition to support for legacy PCI.

Sun storage provides comprehensive hardware, software, and services to solve your business challenges enterprise-wide. Sun's Open SAN architecture simplifies SAN management, optimizes resource utilization, and reduces TCO.

**Host Bus Interface Specs**

<b>Speed</b>	64-bit, PCI-X 2.0 266-MHz DDR, compatible with 66/33-MHz PCI and 133/100/66-MHz PCI-X
<b>Compliance</b>	Conforms to PCI Local Bus Specification, revision 2.3, PCI-X Protocol Addendum to the PCI Local Bus Specification, revision 2.0a, PCI-X Electrical and Mechanical Addendum (revision 2.0a) to the PCI Local Bus Specification, PCI Bus Power Management Interface Specification revision 1.1, PCI Hot Plug Specification, revision 1.0

**Fibre Channel Specifications**

<b>Speed</b>	4/2/1Gbps auto-negotiation (4.2480/2.1240/1.0625 Gbps)
<b>Compliance</b>	SCSI-FCP, FC-PH, FC-PH-2, FC-PH-3, FC-AL-2, FC-FLA, FC-PLDA, FC-TAPE, FCP-2, FC-GS-3, FC-GS-3, FC-FS
<b>Topology</b>	Point-to-point (N_Port), arbitrated loop (NL_Port), and switched fabric (N_Port)
<b>Class of Service</b>	Class 2 and 3

**Logins and Exchanges**

Support for F\_Port and FL\_Port login. 2,048 concurrent logins and 2,048 active exchanges

**Physical Specifications**

<b>Ports</b>	Single and Dual 4Gbps FC
<b>LEDs</b>	Three LEDs display real-time status and link activity information
<b>Media</b>	Small form factor fixed (SFF) multimode optic with LC-style connector
<b>Form factor</b>	Low-profile MD2: 16.93 cm x 5.15 cm (6.7 in.x 2.5 in.)

**Supported Operating Systems**

Sun Solaris 8, 9, 10  
 RedHat RHEL 3.0, x86 & x64  
 RedHat RHEL 4.0, x86 & x64  
 SUSE SLES9 x64  
 Windows Server 2000 WHQL, x86  
 Windows Server 2003 WHQL, x86  
 Windows Server 2003 WHQL, x86/x64

Get the details. For more information on this product, go to:  
[www.sun.com/storage/san/infrastructure/fc\\_hba/](http://www.sun.com/storage/san/infrastructure/fc_hba/)

**Supported Server Platforms**

SunBlade 1000, 1500, 2000, 2500  
 Sun Fire V210, V240, V250, V440  
 Sun Fire V480, V490, V880, V890  
 Sun Fire 4800, 4810, 6800, V1280, E2900, E4900, E6900  
 Sun Fire 12K, 15K, E20K, E25K  
 Sun Fire 280R  
 Netra 20, 240, 440, 1280, 1400/1405  
 Sun Fire V20z, V40z  
 Sun Fire x4100, x4200  
 Sun Fire T2000

**Environment and Equipment Specifications**

<b>Temperature</b>	Operating: 0°C/32°F to 55°C/131°F Storage: -20°C/-4°F to 70°C/158°F
<b>Humidity</b>	Relative (non-condensing): 10% to 90% Storage: 5% to 95%
<b>Distance</b>	1Gbps: 500 meters 50/125 µm fibre, 300 meters 62.5/125 µm fibre 2Gbps: 300 meters 50/125 µm fibre, 150 meters 62.5/125 µm fibre 4Gbps: 150 meters 50/125 µm fibre, 70 meters 62.5/125 µm fibre
<b>Power Dissipation</b>	6.5 (single port), 8W (dual port) maximum

**Agency Approvals – Product Safety (Preliminary)**

<b>US/Canada</b>	UL, cUL UL60950 CSA C22.2 No.60950 Class 1 Laser Product per DHHS 21CFRJ
<b>Europe</b>	73/23/ECC Low Voltage Directive: TUV: EN60950-1: 2001 EN60825-1: 1994+A1+A2 EN60825-2: 1994 +A1

**Agency Approvals – EMI and EMC (Preliminary)**

<b>US</b>	FCC Part 15, Class A
<b>Canada</b>	Industry Canada ICES-003, Class A
<b>Europe</b>	89/336/EEC EMC Directive CE Mark: EN55022: 1998 / CISPR22:1997 Class A EN55024: 1998 EN61000-3-2:1995 EN61000-3-3:1994
<b>Japan</b>	VCCI, Class A
<b>Taiwan</b>	CNS 13438 Class A
<b>New Zealand/ Australia</b>	AS/NZS 3548 Class A
<b>Korea</b>	MIC

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