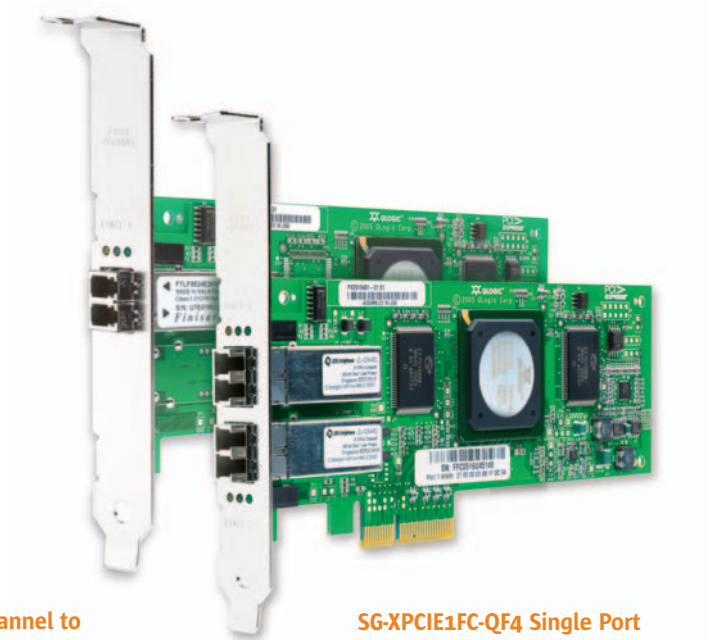


Sun StorageTek™ Enterprise 4Gb Fibre Channel to PCI Express Host Bus Adapters

Features and Benefits

- 4Gbps FC increases aggregate throughput rate to 1.6GBps (dual port) in full-duplex mode
- Native PCI Express™ x4 host bus interface for high throughput applications
- Single and Dual 4Gbps FC ports
- 200,000 IOPS on 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 Express HBA delivers enterprise class capabilities for high performance Sun SPARC and x64 PCIe Servers

**SG-XPCIE1FC-QF4 Single Port
SG-XPCIE2FC-QF4 Dual Port**

Lower Total Cost of Ownership

The Sun StorageTek™ Enterprise Class 4Gb Fibre Channel PCIe Host Bus Adapter (HBA) is a high performance 4/2/1 Gbps HBA capable of providing throughput rates up to 1.6GBps (dual port) in full-duplex mode. The 4Gb FC PCIe HBA ensures that Sun customers make better use of bus slots in Sun's latest SPARC and x64 PCIe 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 Sun StorageTek PCIe Enterprise 4Gb FC HBA provides an end-to-end high performance 4Gbps SAN solution.

The Sun HBA Advantage

Designed specifically for use in Sun servers, the Sun StorageTek Enterprise 4Gb FC PCI Express HBA (SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4) delivers high performance (aggregate throughput rates of 1.6GBps 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 Express x4 bus speeds.

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

Speed	PCI Express x4
Compliance	PCI Express Base Specification rev. 1.0a, PCI Express Card Electromechanical Specification rev. 1.0, PCI Bus Power Management Interface Specification revision. 1.1

Fibre Channel Specifications

Speed	4/2/1Gbps auto-negotiation (4.2480/2.1240/1.0625Gbps)
Compliance	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
Topology	Point-to-point (N_Port), arbitrated loop (NL_Port), and switched fabric (N_Port)
Class of Service	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

Ports	Single and Dual 4Gbps FC
LEDs	Three LEDs display real-time status and link activity information
Media	Small form factor fixed (SFF) multimode optic with LC-style connector
Form factor	Low-profile PCI Express Card: 16.765 cm x 6.89 cm (6.6 in. x 2.713 in.)

Supported Operating Systems

Sun Solaris 10
RedHat RHEL 3, x86 & x64
RedHat RHEL 4, x86 & x64
SUSE SLES9, AMD64
Windows Server 2000 WHQL
Windows Server 2003 WHQL
Windows Server 2003 WHQL, IA32/x64

Supported Server Platforms

Sun Fire T2000
Sun Fire x2100

Environment and Equipment Specifications

Temperature	Operating: 0°C/32°F to 55°C/131°F Storage: -20°C/-4°F to 70°C/158°F
Humidity	Relative (non-condensing): 10% to 90% Storage: 5% to 95%
Distance	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
Power Dissipation	5W (single port), 6.5W (dual port) maximum

Agency Approvals – Product Safety (Preliminary)

US/Canada	UL, cUL UL60950 CSA C22.2 No.60950 Class 1 Laser Product per DHHS 21CFRJ
Europe	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)

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

Get the details. For more information on this product, go to:
www.sun.com/storage/san/infrastructure/fc_hba/

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