

Sun StorEdge™ Entry Level 2Gb Fibre Channel to PCI-X Host Bus Adapter



Features and Benefits

- Easy, reliable, scalable, high-performance, resilient host bus adapter
- Optimize price/performance/functionality for entry-level SAN environments
- 2-Gbps fibre channel
- Supports Windows 2000, Windows Server 2003, 64-bit Red Hat and SUSE Linux and Solaris™ x64 operating environments
- Plug and play
- Auto-install software with wizards
- Enhanced level of support provided by Sun Enterprise Services
- RoHS 6 Compliant

2Gbps Fibre Channel to PCI-X HBA delivers enterprise-class capabilities at an exceptional price

Designed specifically for the entry-level SAN storage market, the Sun StorEdge™ 2Gb FC to PCI-X Host Bus Adapter (HBA) SG-XPCI1FC-QLC-Z delivers optimal performance (400 MBps throughput) at a very competitive price. Coupled with the Sun StorEdge™ Traffic Manager software implemented within Solaris™, it provides failover and load balancing between HBAs to improve availability and address storage growth without adding complexity. Sun storage provides comprehensive hardware, software, and services to solve your business challenges enterprise-wide. Sun's Open SAN architecture simplifies SAN management and optimizes resource utilization.

SG-XPCI1FC-QLC-Z Single Port

Lower Total Cost of Ownership

The Sun StorEdge Entry Level Host Bus Adapter (HBA) provides a cost-effective solution for price-conscious customers. It delivers the benefits of Sun FC storage consolidation utilizing an entry-level SAN built around the Sun Fire x64 and x86 servers.

Easy to manage

An intuitive Web-based interface for the auto-install software provides a single point of management for the HBA under a wide range of operating systems.

Proven SAN solution

Combined with the high-performance, low-profile Sun StorEdge 3510 and 3511 arrays, the Sun StorEdge Entry Level HBA enables customers to create a storage pool that rivals the capabilities of enterprise-class storage.

2Gb FC to PCI-X Host Bus Interface Specs

Speed	133-MHz, 32-bit PCI-X 1.0
Voltage	Only 3.3 V bus is supported
Compliance	Conforms to PCI-X Addendum rev. 1.0a, PCI Local Bus Specification rev. 2.2, PCI Hot Plug Specification 1.0, PCI Bus Power Management Interface Specification rev 1.1

Fibre Channel Specifications

Speed	200 MBps maximum at half-duplex, 400 MBps maximum at full-duplex (2-Gbps speed only)
Compliance	Second Generation FC Generic Services Definition (FC-GS-2), Third Generation FC Generic Services Definition (FC-GS-3), Fibre Channel-Physical and Signaling Interface (FC-PH), SCSI-3 Fibre Channel Protocol (SCSI FCP), Fibre Channel-Arbitrated Loop-2 (FC-AL 2), Fibre Channel-Private Loop Direct Attach Technical Report (FC-PLDA), Fibre Channel Framing and Signaling (FC-FS)
Topology	FC-AL, FC-AL-2, switched fabric (F-Port)
Class of service	Class 3 Fibre Channel service
Protocol	SCSI (FCP), tape (FCP-2)

Logins and Exchanges

Up to 16 total logins in private loop (FC AL/FC-AL-2) topology, 8 (target) logins in fabric (F-Port connect) topology, and up to 64 FCP/FCP-2 exchanges

FC frame size	2K fixed
Buffer credits	2 credits issued

Physical Specifications

Ports	One
LEDs	Two (with beacon support)
Media	Multimode optic
Optics	Short wave laser
Form factor	Low-profile MD1: 11.99 cm to 6.44 cm (4.721" to 2.536")
Bracket size	Standard size, with optional low profile size
Connectors	LC-style connector that supports non-OFC, multimode fibre optic cabling using a small form factor optical transceiver module
Power consumption	~ 5.0 watts

Environment and Equipment Specifications

Airflow	0 lf/m
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	2 Gbps: 300 meters 50/125 µm Fibre, 150 meters 62.5/125 µm Fibre
Cable	50/125µm multimode Fibre, 62.5/125 µm multimode Fibre
Multi-switch Fabric	Supports up to two switches between the server and a storage peripheral

Agency Approvals – Product Safety

US/Canada	UL, cUL; UL60950-1 CSA C22.2 No.6950 Class 1 Laser Product per DHHS 21CFR J 73/23/ECC Low Voltage Directive, TUV, EN60950-1: 2001 EN60825-1: 1994+A1+A2, EN60825-2: 1994 +A1US FCC Part 15, Class A Industry Canada ICES-003, Class A
Europe	89/336/EEC EMC Directive CE Mark, EN55022: 1998 /CISPR22: 1997, Class A, EN55024: 1998, EN61000-3-2: 2000, EN61000-3-3: 2001; A1:2001
Canada	VCCI, Class A
Europe	CNS 13438 Class A
Japan	AS/NZS 3548 Class A Korea MIC Class A
Taiwan	
New Zealand/Australia	

Supported Operating Systems

Sun Solaris 10 x86
RedHat RHEL 3.0, IA32
RedHat RHEL 3.0, AMD64
SUSE SLES 8, IA32
SUSE SLES 8, AMD64
SUSE SLES 9, IA32
SUSE SLES 9, AMD64
Windows Server 2000, IA32
Windows Server 2003, IA32

Supported Server Platforms

Sun Fire V20z, V40z
Sun Fire x4100
Sun Fire x4200

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

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