

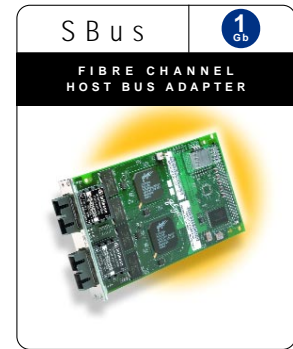
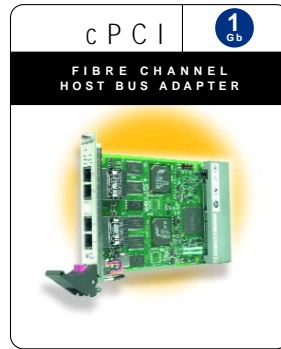
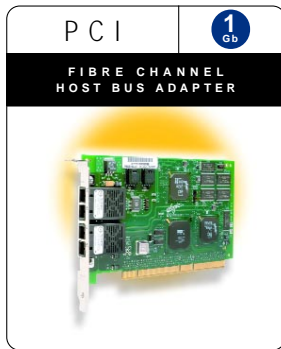


SANblade™

1Gb Fibre Channel Solutions:
PCI, CompactPCI and SBus Host Bus
Adapters

2200 SERIES

The SANblade 2200 Series is based on QLogic's award winning Fibre Channel architecture and is designed for performance in the Storage Area Network (SAN) environment. The 2200 Series provides all the benefits of Fibre Channel technology – fabric connections for hundreds of devices, bandwidth to 200MB/s (in full duplex) - in a highly integrated cost-effective package. With PCI, CompactPCI (cPCI), and SBus models, the high-performance 2200 Series supports SAN-enabled features, like F_port fabric login, full duplex, FC-tape and IP protocol, creating a powerful SAN connectivity solution.



- Single and Multi-Channel Models
- Includes SANsurfer™ Management Suite
- Supports up to 200MB/s Fibre Channel Data Transfer Rates (w/Full Duplex)
- FC-AL Private & Public Loop
- Fabric Attach via FL_port and F_port
- SCSI, IP and FC-Tape Profile Support
- Classes 2 and 3
- SCSI Initiator & Target Operation
- Copper and Fiber Optic Models
- ACPI Power Management
- Robust Suite of Software Drivers

REAL-WORLD SCALABILITY. The SANblade 2200 Series supports key features that are critical to real-world application performance. The high-speed, on-chip RISC processor and high-level software interface enable the 2200 Series to complete multiple I/O operations without host intervention, creating the lowest CPU utilization of any SAN adapter on the market. The result is the ability to add multiple host adapters with linear performance increases, expanding the reach of your SAN with minimal hardware investment. To further boost performance, QLogic's configuration utility provides tunable parameters for application-specific needs, and our industry-leading Reduced Interrupt Operation (RIO) allows you to significantly reduce CPU interrupts per I/O.

SAN-ENABLED SOFTWARE SOLUTIONS. The SANblade 2200 Series is designed for maximum functionality in the SAN. Cutting-edge SAN utilities like QLogic SANsurfer™ Management Suite provide advanced capabilities for remote configuration and management, failover, load-

balancing and persistent binding. Enhanced software drivers include support for SAN-critical features including concurrent SCSI/IP and FC-tape. Plus, QLogic's unique software architecture simplifies integration, with an easy host software migration path between parallel SCSI and Fibre Channel application. The 2200 Series is far more than just hardware – it's a complete I/O solution.

PROVEN INTEROPERABILITY. QLogic ships more Fibre Channel controller solutions than any other supplier, and our I/O controllers connect every type of SAN end-node including hard disk and tape drives, RAID controllers, tape libraries, UNIX and NT servers, storage subsystems and video workstations. We're also driving the standard for SAN interoperability, with a full suite of OS drivers and extensive Fibre Channel testing in SAN environments. You can feel confident that a QLogic Fibre Channel connection is the right connection.



SANblade 2200 SERIES

1 Gb

TECHNICAL SPECIFICATIONS

Applications

- Box-to-Box
- Storage Area Networks [SANs]
- Data Warehousing
- Clustering
- Remote Backup
- Near or On-Line Storage
- Video Editing & CAD

SANblade 2200 Series

RISC RAM	128 Kbytes per Fibre Channel Controller				
Onboard Intelligence	Single chip engine includes integrated RISC processor, Fibre Channel Protocol manager, PCI DMA controller and 1Gb transceivers per Fibre Channel Controller				
Onboard DMA Channels	Three independent DMA channels per Fibre Channel Controller, two data and one command				
Frame Buffers	Integrated 4 Kbyte frame buffer FIFO for each data channel, GBIC models support optional external 16 Kbyte frame buffer per Fibre Channel Controller				
Topology	FC-AL, Point-to-Point, Fabric				
Fabric Support	FL_Port, F_Port				
Class of Service	Class 2,3				
Transfers	Full Duplex				
Protocols	SCSI, IP and FC-Tape, PCI boards support concurrent SCSI/IP				
Host Bus	PCI Local Bus Specification 2.1; cPCI-Hot Swap Specification 2.1; SBus - IEEE 1496-1993				
Fibre Channel Data Transfers	Up to 200 MB/s per channel with Full Duplex				
Power Consumption		PCI-Copper	PCI-Optic	cPCI	SBus
	Single Channel	~ 2 Watts	~ 3.5 Watts	N/A	N/A
	Dual Channel	N/A	~ 11 Watts	~ 6.5 Watts	~ 12 Watts
	Quad Channel	N/A	~ 15 Watts	N/A	N/A
Form Factor	Standard Short Card PCI	Low Profile PCI	Full Length PCI	3U CompactPCI	SBus
	6.875" x 4.200"	6.600" x 2.536"	12.283" x 4.200"	6.299" x 3.937"	5.776" x 3.300"
Temperature	Operating: 0°C/32°F to 55°C/131°F Storage: -20°C/-4°F to 70°C/158°F				
Humidity	Relative: 10% to 90% (non-condensing) Storage: 5% to 95% (non-condensing)				
SANblade Manager™ HBA Management Software	Easy-to-use, Java-based configuration, diagnostic and analysis utility. Includes persistent binding and failover functionality.				
SANblade Control FX	Wizard based utility provided for installation, configuration and diagnostic functions				
Software Drivers	PCI HBAs: Windows NT, XP and 2000, Solaris SPARC, Linux and Novell NetWare cPCI and SBus HBAs: Solaris SPARC				



Linux



	Media	Ports	64-Bit Bus	Form Factor	Bracket Size	Connector
QLA2200-CK	Copper	One	66MHz, PCI	Short Card	Standard	One external HSSDC
QLA2200L-CK	Copper		66MHz, PCI	Low Profile MD2	Low Profile	
QLA2200F-CK	Multi-mode Optic	Two	66MHz, PCI	Short Card	Standard	One external SC duplex
QLA2202F-CK	Multi-mode Optic		66MHz, PCI	Short Card		Two external SC duplex
QLA2204F-CK	Multi-mode Optic	Four	66MHz, PCI	Long Card		Four external SFF
QCP2202F/33-CK	Multi-mode Optic	Two	33MHz, cPCI	cPCI		Two external SC duplex
QLA2202FS-CK	Multi-mode Optic		25MHz, SBus	SBus		



QLogic Corporation 22650 Aliso Viejo Parkway
Aliso Viejo, CA 92656 949.389.6000

www.qlogic.com