

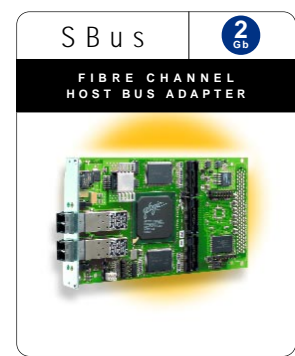
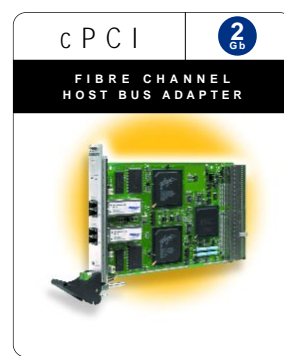
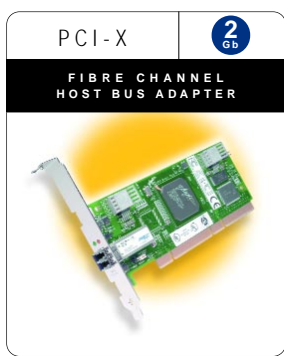


SANblade™

2Gb Fibre Channel Solutions:
PCI-X, CompactPCI, SBus Host Bus
Adapters

2300 SERIES

Based on QLogic's award-winning Fibre Channel architecture, the SANblade 2300 Series are PCI-X, CompactPCI (cPCI) and SBus to 2Gb Fibre Channel Host Bus Adapters. Targeted specifically for Storage Area Networks (SANs) and server clustering environments, the 2300 Series has been optimized for peak performance and real-world scalability.



- Backwards Compatible w/33 & 66Mhz PCI
- Supports up to 400 MB/s Fibre Channel Data Transfer Rates in Full Duplex Mode
- Single and Multi-Channel Models
- Automatically Negotiates Fibre Channel Bit Rate (1 or 2Gb)
- FC-AL Private & Public Loop, Point-to-Point, Switched Fabric
- FL_Port, F_Port for Fabric Log-in
- Standard Short Card and Low Profile MD2
- Concurrent SCSI, IP, Virtual Interface (VI) Protocol Support
- FC-Tape Support
- Class 2 and 3 Fibre Channel Service
- SCSI Initiator/Target and Target Modes
- Comprehensive Suite of Software Drivers
- ACPI Power Management, PC99 Support
- BIOS Support (Local & Fabric)

UNPRECEDENTED BALANCED PERFORMANCE. QLogic has pushed the performance envelope with the SANblade 2300 Series. Engineered for maximum bandwidth, the 2300 Series is the first to support both 2Gb Fibre Channel and PCI-X, resulting in the union of the two fastest I/O technologies. This combination eliminates host bus bottlenecks that may impede the high performance of 2Gb Fibre Channel and creates the perfect balanced solution.

SAN & CLUSTERING SOLUTIONS. The SANblade 2300 Series is the ultimate choice for open systems solutions for SAN and server clustering, with support for concurrent multiple protocols – SCSI, IP, Virtual Interface (VI), and FC-Tape. Optimized for high-speed data movement, system management and application-to-application communication within server clusters, the 2300 Series provides the flexibility needed to run complex

storage networks. Cutting-edge SAN utilities like the QLogic SANsurfer™ Tool Kit provide advanced capabilities for remote configuration and management, load balancing, failover, and persistent binding. The 2300 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 can be found connecting every type of SAN end-node including hard disk and tape drives, RAID controllers, tape libraries, UNIX and Windows servers, storage subsystems and video workstations. QLogic is also driving the standard for SAN interoperability, with a full suite of OS drivers and the QLogic SANtrack™ Program for extensive Fibre Channel testing in SAN and cluster environments. You can feel confident that a QLogic Fibre Channel connection is the right connection.

SANblade 2300 Series

RISC Processor	Enhanced RISC processor integrated into Fibre Channel Controller							
RAM	256 Kbytes per Fibre Channel Controller; Scalable to 4MB							
Onboard Intelligence	Single chip engine includes enhanced RISC processor, Fibre Channel Protocol manager, PCI-X DMA controller, 2-Gigabit transceivers, and on-chip frame buffers							
Onboard DMA Channels	5-channel DMA controller: Two data, one command, one auto-DMA request and one auto-DMA response							
Frame Buffers	Integrated 10 Kbyte frame buffer FIFO. Receive FIFO = 6K; Transmit FIFO = 4K; Optional external frame buffer FIFO for longer distances when using single mode optics							
Topology	FC-AL, FC-AL-2, Point-to-point, Switched Fabric							
Fabric Support	FL_Port, F_Port							
Class of Service	Class 2 and 3 Fibre Channel services							
Transfers	Full Duplex, in all topologies							
Protocols	Supports SCSI, IP, and Virtual Interface (VI) protocols concurrently; FC Tape							
Host bus	Conforms to PCI-X Specification 1.0 and PCI Local Bus Specification 2.2; cPCI - Hot-swap Specification 2.1; SBus IEEE 1496-1993							
Fibre Channel Data Transfers	Up to 400 MB/s per channel with Full-Duplex							
Power Consumption		PCI Copper	PCI Optic	PCI-X Copper	PCI-X Optic	cPCI	SBus	
					66MHz HBAs	133MHz HBAs		
	Single Channel	~4 Watts	~5 Watts	~3.65 Watts	~4.75 Watts	~6.5 Watts	~6.0 Watts	~9 Watts
	Dual Channel	N/A	~11 Watts	N/A	~10.5 Watts	~7.5 Watts	~10.6 Watts	~10 Watts
Form Factor	Standard Short Card PCI/PCI-X		Low Profile PCI-X		cPCI		SBus	
	6.875" x 4.200"		6.600" x 2.536"		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, diagnostics and analysis utility. Includes persistent binding capabilities.							
Software Drivers	PCI-X HBAs: Windows NT, XP, and 2000, Novell NetWare, Solaris SPARC, Linux. cPCI and SBus HBAs: Solaris SPARC.							



	Media	Ports	64-Bit Bus	Form Factor	Bracket Size	Connector
QLA2300*	Copper	One	66MHz, PCI	Short Card	Standard	One external HSSDC copper
QLA2300F*	Multi-mode Optic	One		Short Card	Standard	One external small form factor multi-mode optic LC
QLA2302F*	Multi-mode Optic	Two		Short Card	Standard	Two external small form factor multi-mode optic LC
QLA2310*	Copper	One	66MHz, PCI-X	Short Card	Standard	One external HSSDC copper
QLA2310F*	Multi-mode Optic	One		Short Card	Standard	One external small form factor multi-mode optic LC
QLA2310FL	Multi-mode Optic	One		Low Profile MD2	Low Profile	One external small form factor multi-mode optic LC
QLA2332	Multi-mode Optic	Two	66MHz, PCI	Short Card	Standard	Two external small form factor multi-mode optic LC
QLA2340	Multi-mode Optic	One	133MHz, PCI-X	Low Profile MD2	Standard	One external small form factor multi-mode optic LC
QLA2340L	Multi-mode Optic	One		Low Profile MD2	Low Profile	One external small form factor multi-mode optic LC
QLA2342	Multi-mode Optic	Two	133MHz, PCI-X	Low Profile MD2	Standard	Two external small form factor multi-mode optic LC
QLA2342L	Multi-mode Optic	Two		Low Profile MD2	Low Profile	Two external small form factor multi-mode optic LC
QCP2330	Multi-mode Optic	One	66MHz, cPCI	CompactPCI	Standard	One external small form factor multi-mode optic LC
QCP2332	Multi-mode Optic	Two	66MHz, cPCI	CompactPCI	Standard	Two external small form factor multi-mode optic LC
QSB2340	Multi-mode Optic	One	25MHz, SBus	SBus	Standard	Two external small form factor multi-mode optic LC
QSB2342	Multi-mode Optic	Two	25MHz, SBus	SBus	Standard	Two external small form factor multi-mode optic LC

* Also available through authorized QLogic distributors and resellers.

Fibre Channel PCI-X, cPCI and SBus Host Bus Adapters



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