



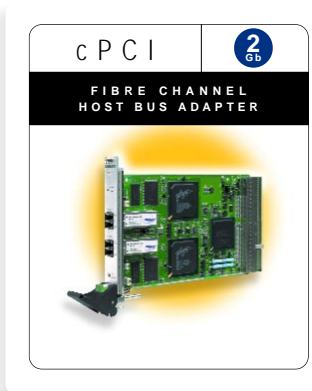
# SANblade™

2 Gb Fibre  
Channel Host Bus  
Adapters

2300 SERIES



Award-winning QLogic SANblade 2300 Series Fibre Channel host bus adapters (HBAs) offer 2 Gigabit (Gb) performance for demanding storage area networks (SANs) and are available in PCI-X, CompactPCI (cPCI) and SBus form factors.



## Applications

- RAID
- SANs
- Data warehousing
- Disaster Recovery
- Clustering
- Remote backup
- Near and on-line storage
- Video editing and CAD
- Box-to-box
- JBOD

QLogic SANblade HBAs are the industry's highest-performing and most widely deployed host adapter solutions for server, networking, storage and clustering solutions.

**RECORD-BREAKING PERFORMANCE.** Independent performance benchmarks continue to affirm that SANblade 2300 Series HBAs are the leading transaction-process host adapters. *Network Computing* recognized the 2300 Series HBA as editors choice and product of the year for its superior driver implementation, ease of use and impressive performance. Increasing overall system efficiency and performance, the 2300 completes I/O requests independent of the host.

**LEADING SINGLE CHIP INTEGRATION.** SANblade 2300 Series HBAs have uniquely integrated a RISC processor, the Fibre protocol engine and transceivers into a single, efficient Fibre Channel controller chip.

**MULTI-PROTOCOL SUPPORT.** The SANblade 2300 supports multiple protocols including SCSI, IP, Virtual Interface (VI), FC-Tape and FICON for multi-platform and multi-application design. Comprehensive protocol support provides host and storage providers the flexibility to develop a wide range of SAN and server clustering solutions.

**BROAD OEM ACCEPTANCE.** The 2300 Series HBA is validated by every major OEM including Sun, IBM, Dell, HP, EMC and HDS. The 2300's extensive certification from major server and storage manufacturers make it the perfect choice for multi-platform requirements.

**EASY MANAGEMENT.** The QLogic SANsurfer™ Tool Kit, included with the 2300 Series, simplifies management by making setup, configuration and maintenance easy and enabling features such as remote management, load balancing, fail-over and persistent binding. The SANblade 2300 is also fully compatible with management applications that support the SNIA API, allowing IT managers to reduce HBA management time and lower their total cost of ownership.

**PROVEN ARCHITECTURE.** The SANblade 2300 architecture is the result of more than 15 years of progressive development and testing. QLogic's proven architecture delivers higher overall reliability and enables advanced functionality such as single chip integration, placing QLogic years ahead of its competitors. The SANblade 2300 also has proven interoperability with all major software applications, hardware platforms and operating systems.

2300

### 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
QLA2310-CK	Copper	One	66MHz, PCI-X	Short Card	Standard	One external HSSDC copper
QLA2310F-CK	Multi-mode Optic	One		Short Card	Standard	One external small form factor multi-mode optic LC
QLA2340-CK	Multi-mode Optic	One	133MHz, PCI-X	Low Profile MD2	Standard	One external small form factor multi-mode optic LC
QLA2340L-CK	Multi-mode Optic	One		Low Profile MD2	Low Profile	One external small form factor multi-mode optic LC
QLA2342-CK	Multi-mode Optic	Two		Low Profile MD2	Standard	Two external small form factor multi-mode optic LC
QLA2342L-CK	Multi-mode Optic	Two		Low Profile MD2	Low Profile	Two external small form factor multi-mode optic LC
QCP2340-CK	Multi-mode Optic	One	66MHz, cPCI	CompactPCI	Standard	One external small form factor multi-mode optic LC
QCP2342-CK	Multi-mode Optic	Two		CompactPCI	Standard	Two external small form factor multi-mode optic LC
QSB2340-CK	Multi-mode Optic	One	25MHz, SBus	SBus	Standard	Two external small form factor multi-mode optic LC
QSB2342-CK	Multi-mode Optic	Two		SBus	Standard	Two external small form factor multi-mode optic LC

\* Also available through authorized QLogic distributors and resellers.

2 GB FIBRE CHANNEL HOST BUS ADAPTERS



QLogic Corporation 26600 Laguna Hills Drive  
Aliso Viejo, CA 92656 949.389.6000

[www.qlogic.com](http://www.qlogic.com)