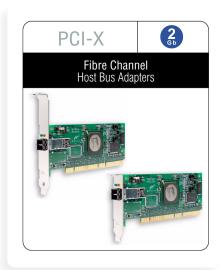


SANblade

2-Gbps Fibre Channel to PCI-X Host Bus Adapters

QLA2340/ QLA2340L





Features

- Unique, single-integrated Fibre Channel controller for added reliability and optimum performance
- Autonegotiation of Fibre Channel speed bit rate (1 Gbps or 2 Gbps)
- Automatic topology detection
- Concurrent support for SCSI and IP protocols
- · Simultaneous initiator and target mode support
- Easy detection of activities through an LED panel:
 - Power
 - Online
 - Signal acquired
 - Loss of synchronization
 - Firmware error
- . HBA and LUN level failover
- Persistent binding
- · LUN masking
- · Local and remote management
- · Load balancing for optimized performance
- Diagnostics
 - · Loop back test
 - · Read/write buffer tests

WHY QLOGIC? Designed and deployed by major server and storage OEMs, the QLogic SANblade QLA2340 and QLA2340L host bus adapters (HBAs) offer the ultimate in performance: 2-Gbps Fibre Channel combined with 64-bit, 133-MHz PCI-X. Eliminating traditional host bottlenecks that impede the high performance of 2-Gbps Fibre Channel, this union of the fastest I/O and host technologies creates the perfect balanced solution.

These HBAs are based on unique single chip fibre channel controller architecture from QLogic. These multimode optic HBAs are specifically designed for servers in direct attach storage (DAS) as well as storage area network (SAN) environments.

COST EFFECTIVE. The QLA2340 is the right solution for the added boost in performance. If you are looking for low-profile boards for 1U and 2U servers, the QLA2340L, a low-profile version of the QLA2340, is the perfect fit.

LEADING SINGLE CHIP INTEGRATION. The QLA2340/2340L uniquely integrates a RISC processor, a Fibre protocol engine, and transceivers into a single, efficient FC controller chip that increases reliability and performance by lowering CPU utilization.

BROAD OEM ACCEPTANCE. The QLA2340/2340L HBA is validated by every major OEM including Dell, EMC, HDS, HP, IBM, and Sun. The QLA2340's extensive certification from major server and storage manufacturers makes it the perfect choice for multiplatform requirements.

EASY MANAGMENT. The QLogic SANsurfer Management Suite™ is available free of charge. This software set simplifies management by making setup, configuration, and maintenance easy, along with features such as remote management, load balancing, failover, and target persistent binding. In addition, the easy to use SANblade Control FX wizard-based application is available on Windows™, Linux®, and Solaris® operating systems. SANblade Control FX provides simple, local host initialization, configuration, and diagnostic functions. The QLA2340/2340L 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 QLA2340/2340L architecture is the result of more than 15 years of progressive development and testing. Proven architecture from QLogic delivers higher overall reliability and enables advanced functionality with its single-chip integration, placing QLogic years ahead of its competitors. The QLA2340/2340L also has proven interoperability with all major software applications, hardware platforms, and operating systems.

THE BOTTOM LINE. Driving the standard for interoperability with extensive FC testing in SAN environments, you can feel confident in choosing the QLogic solution.



TECHNICAL SPECIFICATIONS QLA2340/

QLA2340/ QLA2340L

Host Bus Interface Specifications				
Speed	64-bit, 133-MHz PCI-X			
Voltage	3.3 V and 5.0 V buses supported			
Compliance	PCI Local Bus Specification rev. 2.2, PCI-X Addendum rev. 1.0a, PCI Hot Plug	PCI Local Bus Specification rev. 2.2, PCI-X Addendum rev. 1.0a, PCI Hot Plug Specification rev. 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			
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), RFC 2625 IP and APR Over Fibre Channel, Fibre Channel Framing and Signaling (FC-FS)			
Topology	FC-AL, FC-AL-2, point to point, switched fabric (FL_Port and F_Port)			
Class of service	Class 3 Fibre Channel service			
Protocol	SCSI-FCP, IP, FC-TAPE			
Buffer credits	For 512-byte frame size, 9 credits issued. For 2K-byte frame size, 3 credits issued.			
	Physical Sp	ecifications		
Ports	One			
Media	Multimode optic			
Optics	Short wave laser			
Form factor	Low-profile MD2: 16.93 cm×5.15 cm (6.7*×2.5")			
Bracket size	QLA2340: standard size; QLA2340L: 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	~ 7.0 watts			
	Environment and Equi	pment 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 (noncondensing): 10% to 90%, Storage: 5% to 95%			
Distance	1 Gbps: 500 meters 50/125 μm fiber, 300 meters 62.5/125 μm fiber 2 Gbps: 300 meters 50/125 μm fiber, 150 meters 62.5/125 μm fiber			
Cable	50/125μm multimode fiber, 62.5/125 μm multimode fiber			
	Agency Approvals—Product Safety	Agency Approvals—EMI and EMC		
US/Canada Europe	UL, cUL	US Canada Europe	FCC Part 15, Class B Industry Canada ICES-003, Class B 89/336/EEC EMC Directive CE Mark : EN55022: 1998/CISPR22:1997 Class B EN55024: 1998 EN61000-3-2:1995 EN61000-3-3:1994	
	EN60825-1: 1994+A11 EN60825-2: 1994	Japan Taiwan New Zealand/Australia Korea	VCCI, Class B CNS 13438 Class B AS/NZS 3548 Class B MIC	
	Softs	ware		
SANblade	Easy to use, Java-based, configuration, diagnostics and analysis HBA management application for heterogeneous SAN management across multiple hosts. Includes failover, LUN			
Manager SANblade control FX	masking, and persistent binding capabilities. Wizard-based utility provided for installation, configuration, persistent binding, and diagnostic functions on the local host.			
SANblade CLI	Command line interface (CLI) based application provided for installation, configuration, persistent binding, and diagnostic functions on the local host.			
Operating system drivers	Windows Server 2003 (32-bit and 64-bit), Windows NT, Windows 2000, Solaris SPARC, Linux (32-bit and 64-bit), Novell NetWare			
Flash utilities	Configuration utilities resident with BIOS and FCode			
Boot support	Intel x86: BIOS (32-bit), EFI (64-bit); Solaris SPARC: FCode			
Ordering Information				
QLA2340	Ships to OEMs in an individually packed box with a standard size bracket			
QLA2340-CK	Ships in an individually packed box with a standard size bracket, spare low-profile bracket, SANsurfer [®] CD, and Quick Start Guide			
OL 400 40 DIZ	I and the second	Ships in a bulk box in quantities of 20 or 50 with standard size brackets		
QLA2340-BK	Ships in a bulk box in quantities of 20 or 50 with standard size brackets			
QLA2340-BK QLA2340L	Ships in a bulk box in quantities of 20 or 50 with standard size brackets Ships to OEMs in an individually packed box with a low-profile size bracket			
		size bracket, SANsurfer [®] CD,	and Quick Start Guide	



















www.qlogic.com



QLogic Corporation • 26650 Aliso Viejo Parkway • Aliso Viejo, CA 92656 • (800) 662-4471 or (949) 389-6000

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