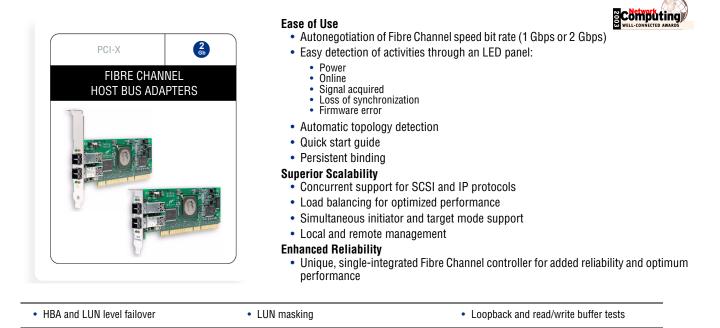


SANblade[®] , QLA[®]2342/

QLA2342L

2-Gbps Fibre Channel (FC) to PCI-X Host Bus Adapters (HBAs)



Why QLOGIC? Designed and deployed by major server and storage OEMs, the QLogic SANblade QLA2342 and QLA2342L host bus adapters (HBAs) offer two independent channels of 2-Gbps Fibre Channel combined with 64-bit, 133-MHz PCI-X. Enabling double IOps with only one PCI/PCI-X slot, the QLA2342 and QLA2342L eliminate 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.

Cost Effective. These HBAs are based on unique, single-chip fibre channel controller architecture from QLogic. For a powerful, scalable solution that maximizes bandwidth and PCI/PCI-X slot usage while maintaining a cost-effective price per port, the QLA2342 is the ultimate choice.

If you are looking for low-profile boards for 1U and 2U servers, the QLA2342L, a low-profile version of the QLA2342, is the perfect fit.

Leading Single Chip Integration. The QLA2342/2342L 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 QLA2342/2342L HBA is validated by every major OEM including Dell, EMC, HDS, HP, IBM, and Sun. The QLA2342/2342L extensive certification from major server and storage manufacturers makes it the perfect choice for multiplatform requirements.

Simplified Setup. Point-and-click installation and configuration wizards simply the HBA setup process. Storage administrators can quickly deploy HBAs across a SAN using standard HBA management tools and device utilities. The QLA2342/42L is also fully compatible with industry standard application programming interfaces (APIs), including SNIA HBA API and SMI-S, thereby allowing administrators to manage QLogic HBAs using third-party software applications.

Proven Architecture. The QLA2342/2342L 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 QLA2342/2342L 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.



SANblade

TECHNICAL SPECIFICATIONS

QLA2342/ QLA2342L

Speed	64-bit, 133-MHz PCI-X	st Bus Interface Specifications	
Signal 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 Specification 1.0, PCI Bus Power Management Interface Specification rev 1.1		
	I	ibre Channel Specifications	
Speed	200 MBps maximum at half-duplex, 400 MBps maximum at 1		
Topology	FC-AL, FC-AL-2, point to point, switched fabric (FL_Port and F_Port)		
Class of service	Class 3 Fibre Channel service		
Protocols	SCSI-FCP, IP, FC-TAPE		
Buffer credits	For 512-byte frame size, 9 credits issued. For 2K-byte frame size, 3 credits issued. 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-PI		
Compliance		itrated Loop-2 (FC-AL-2), Fibre Channel-Private	א (רכי-25-3), רוחיפ כוזמוזופו-דיוזיאנכמי מוט Signaling Interface (רכי-דה), e Loop Direct Attach Technical Report (FC-PLDA), RFC 2625 IP and APR
		Physical Specifications	
Ports	Two		
Media	Multimode optic		
Optics	Short wave laser Two LC of the connectors that support non-OFC, multimode fibre ontic sobling using small form factor ontical transceiver modules		
Connectors	Two LC-style connectors that support non-OFC, multimode fibre optic cabling using small form factor optical transceiver modules		
Form factor Bracket size	Low-profile MD2: 16.93 cm×5.15 cm (6.7*×2.5*) QLA2342: standard size; QLA2342L: low-profile size		
100NGL 3120		ment and Equipment Specifications	
Temperature	Operating: 0°C/32°F to 55°C/131°F. Storage: -20°C/-4°F to 7		
Airflow	0 lf/m		
lumidity	Relative (noncondensing): 10% to 90%, Storage: 5% to 95%		
Power dissipation	~ 8.0 watts		
Cable	5.5 mats 50/125μm multimode fiber, 62.5/125 μm multimode fiber		
Cable distances	1 Gbps: 500 meters 50/125 μ m fiber, 300 meters 62.5/125 μ	m fiber 2 Gbps: 300 meters 50/125 µm f	iber, 150 meters 62.5/125 μm fiber
	Agency Approvals—Product Safety		Agency Approvals—EMI and EMC
JS/Canada	UL, cUL	US	FCC Part 15, Class B
	UL60950	Canada	Industry Canada ICES-003, Class B
	CSA C22.2 No.60950 Class 1 Laser Product per DHHS 21CFR J	Europe	89/336/EEC EMC Directive CE Mark: EN55022: 1998 /CISPR22:1997 Class B
urope	73/23/ECC Low Voltage Directive:		EN55024: 1998
	TUV:		EN61000-3-2:1995 EN61000-3-3:1994
	EN60950: 1992+A1,2,3,4,11 EN60825-1: 1994+A11	Japan	VCCI, Class B
	EN60825-2: 1994	Taiwan New Zealand/Australia	CNS 13438 Class B AS/NZS 3548 Class B
		Korea	MIC
		Tools and Utilities	
Management tools	FC HBA Manager		
Device utilities	Command line interface; configuration utilities resident with BIOS and Fcode		
Boot support	Intel x86: BIOS (32-bit), EFI (64-bit); Solaris SPARC: FCode		
APIs	SNIA HBA API V2, SMI-S, and FDMI		
Operating systems	Windows Server 2003 (32-bit and 64-bit), Windows NT, W		4-bit), Novell NetWare, Mac OS X
		Ordering Information	
QLA2342	Ships to OEMs in an individually packed box with a standard		
QLA2342-CK	Ships in an individually packed box with a standard size bracket, spare low-profile bracket, FC HBA Manager, and Quick Start Guide		
QLA2342-BK	Ships in a bulk box in quantities of 20 or 50 with standard siz		
LA2342L	Ships to OEMs in an individually packed box with a low-profil		
DLA2342L-CK	Ships in an individually packed box with a low-profile bracket		, and Quick Start Guide
)LA2342L-BK	Ships in a bulk box in quantities of 20 or 50 with low-profile l	Jrackets	
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FM29583	TRACK	Marker Microsoft	
		Server 2003 x64 Editions	Novell. Novell.
	Ol agia Comparation		
	QLogic Corporation 26650 Aliso Viejo Parkwa	QLogic (UK) Ltd. surrey Technology C	entre
	Aliso Viejo, CA	40 Occam Road Gu	ilford
		Surrey GU2 7YG	
	92656 92656		
φL	OGIC [®] 92000 949.389.6000	+44 (0) 1483 295825	