

SANDIADE® Channel (FC) to : QLE2462

Dual Port 4-Gbps Fibre Channel (FC) to PCI Express Host Bus Adapter (HBA)





High Performance

- 300,000 IOPS delivers high I/O transfer rates for storage applications.
- Intelligent interleaved DMA (iiDMA) ensures maximum utilization of data links.
- Out-of-order frame reassembly (OoOFR) reduces congestion and retransmissions.

Superior Scalability

- Multi-ID and N_Port virtualization ready. Allows physical ports to be part of multiple logical networks.
- Cisco VSAN ready. Allows physical ports to be part of multiple logical networks.
- Comprehensive operating system (OS) driver support including Windows[®], Linux[™], Solaris[™], and Mac OS[®].
- Universal boot support manages multiple hardware platforms and boot options.

Enhanced Reliability

- Overlapping protection domains for continuous protection of internal data paths.
- T10 cyclic redundancy check (CRC) ensures end-to-end data integrity across storage area networks (SANs).
- Three LEDs per port display real-time status and link activity information.

- 4/2/1 Gbps (auto-negotiation)
- Persistent bindingHBA and target level failover
- LUN masking
- Loopback and read/write buffer tests
- s, RoHS compliant

- 2,048 concurrent logins per port
 SCSI initiator, target, and initiator/target modes
- HBA information, topology, maps, statistics, and graphs

QLE2462 Host Bus Adapter. The QLE2462 is the industry's first, true enterprise class, 4-Gbps to PCI Express x4 HBA. The QLE2462 not only delivers unprecedented levels of performance and availability, but also intelligent networking features specific to enterprise class data centers.

Enterprise Class Features. The QLE2462 HBA is the highest performing and most reliable HBA in the industry. It delivers unmatched performance by leveraging a single ASIC design, combining a unique hardware architecture to deliver over 300,000 IOPS, nearly 1.6 GBps throughput, and support for PCI Express x4 bus speeds. More importantly, the QLE2462 HBA provides new intelligent storage networking features that redefine the enterprise class HBA, providing increased data protection, advanced frame routing, and enterprise wide management capabilities.

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 QLE2462 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.

Comprehensive Operating System (OS) Support. QLogic offers the broadest range of support for all major operating systems to ensure

OS and hardware server compatibility. Drivers are fully tested and available for all major operating systems, including Windows[®], Linux[™], Solaris[™], NetWare[®], and Mac OS[®] X. A single driver strategy per OS allows storage administrators to easily deploy and manage HBAs in heterogeneous SAN configurations. QLogic's driver suite supports all major hardware server platforms, including 32/64-bit computing platforms from Intel (IA32, IEM64T, IA64), AMD (Opteron64), Sun (SPARC), and Apple[®] G5 (Power Mac[®]).

Guaranteed Interoperability. Storage partner certifications, combined with agency and regulatory testing, ensures all products meet world compliance hardware and software specifications. All HBAs are tested extensively with third-party hardware, along with multiple software applications, to ensure best-in-class SAN interoperability and compatibility. You can be confident purchasing QLogic HBAs to meet your FC storage networking needs.

Investment Protection. For over 15 years, QLogic has been a technological leader with products that address the current needs of customers, yet provide strong investment protection to support emerging technologies and standards. QLogic stands alone in the industry, its product portfolio depth and experience in successfully delivering technological solutions that address the needs of today and tomorrow.

SANblade

TECHNICAL SPECIFICATIONS QLE2462

	Host Bus In	terface Specifications	
us interface	PCI Express x4		
lemory	1-MB SRAM per port, 1-MB flash (SPI), and 2-KB NVRAM (SPI)		
W platforms*	IA32 (x86), IA64, IEM64T, AMD Opteron64, Sun SPARC, Apple G5 (Po	wer Mac)	
ompliance	PCI Express Base Specification rev. 1.0a, PCI Express Card Electromechanical Specification rev. 1.0, PCI Bus Power Management Interface Specification revision. 1.1		
		nnel Specifications	· · · · · · · · · · · · · · · · · · ·
ata rate	4/2/1 Gbps auto-negotiation (4.2480/2.1240/1.0625 Gbps)		
erformance	4/2/ 1 Gups auto-negotiation (4.2460/2.1240/1.0023 Gups) 150.000 IOPS per port		
opology	Point-to-point (N_Port), arbitrated loop (NL_Port), and switched fabric (N_Port)		
ogins	Support for F_Port and FL_Port login. 2,048 concurrent logins and 2,048 active exchanges per port		
lass of service	Support for F_Port and FL_Port login. 2,048 concurrent logins and 2,048 active exchanges per port Class 2 and 3		
rotocols	FCP (SCSI-FCP), IP (FC-IP), FC-TAPE (FCP-2)		
ompliance	FUP (SUSIFUE), IP (FU-IP), FU-IAFE (FUF-2) SCSI-3 Fibre Channel Protocol (SCSI-FCP), Fibre Channel Physical and Signaling Interface (FC-PH), Fibre Channel 2nd Generation (FC-PH-2), Third Generation Fibre Channel Physica		
ompnance	and Signaling Interface (FC-PH-3), Fibre Channel—Arbitrated Loop (FC Attach Technical Report (FC-PLDA), Fibre Channel Tape (FC-TAPE) profil FC Generic Services (FC-GS-3), Fibre Channel Framing and Signaling (-ÀL-2), Fibre Channel Fabric Loop Atta e, SCSI Fibre Channel Protocol-2 (FCP-	chment Technical Report (FC-FLA), Fibre Channel—Private Loop Direct
		al Specifications	
orts	Dual 4-Gbps FC		
onnections	Small form factor fixed (SFF) multimode optic with LC-style connector		
orm factor	Low-profile PCI Express Card: 16.765 cm × 6.89 cm (6.6 in. × 2.713 in.)		
racket size	Standard: 1.84 cm \times 12.08 cm (.73 in. \times 4.76 in.); Low-profile: 1.84 cm \times 8.01 cm (.73 in. \times 3.15 in.)		
	· · · ·	d Equipment Specifications	
irflow	No airflow required.	- Equipment opecifications	
emperature			
-	Operating: 0°C/32°F to 55°C/131°F. Storage: -20°C/-4°F to 70°C/158°F Relative (non-condensina): 10% to 80%. Storage: 5% to 85%		
lumidity	Relative (non-condensing): 10% to 90%, Storage: 5% to 95%		
ower dissipation	6.5 W (maximum)		
able distances	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 4 Gbps: 150 meters 50/125 μm fiber, 70 meters 62.5/125 μm fiber		
	Agency Approvals—Product Safety		Agency Approvals—EMI and EMC
S/Canada	UL, cUL	US	FCC Part 15, Class B
	UL60950 CSA C22.2 No.60950 Class 1 Laser Product per DHHS 21CFR J	Canada Europe	Industry Canada ICES-003, Class B 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
	EN60950-1: 2001 EN60825-1: 1994+A1+A2	Japan	VCCI, Class B
	EN60825-2: 1994 +A1	Taiwan New Zealand/Australia	CNS 13438 Class B AS/NZS 3548 Class B
		Korea	MIC
	Тоо	ls and Utilities	
lanagement tools	FC HBA Manager		
evice utilities	Command line interface; utilities for firmware, driver, boot code, and NVRAM		
oot support	BIOS, EFI, and FCode		
Pis	SNIA HBA API V2, SMI-S, and FDMI		
perating systems*	Windows [®] Server [™] 2003; Windows 2000; Windows XP Pro; Solaris 10); Linux Red Hat AS 3.0, 4.0; Linux Su	SE SLES 8, 9; Novell NetWare 6.5, Mac OS X
		ring Information	
LE2462-CK	Ships in an individually packed box with a standard size bracket and a		nager CD, and Quick Start Guide
LE2462-BK	Ships in a bulk box in quantities of 20 and 50 with standard size brackets		
Subject to availabili	ty of OS and hardware from respective OEMs.		
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