

MAJOR FEATURES

Two full duplex 2Gb/s Fibre Channels deliver up to 800MB/s link bandwidth

Automatic speed negotiation

Automatic topology detection

Full fabric support using F_Port and FL_Port connections

Onboard hardware context cache for superior fabric performance

Support for multiple concurrent protocols (SCSI and IP)

Full support for both FC service class 2 and 3

Full fabric boot support in x86 and SPARC environments to multiple LUNs

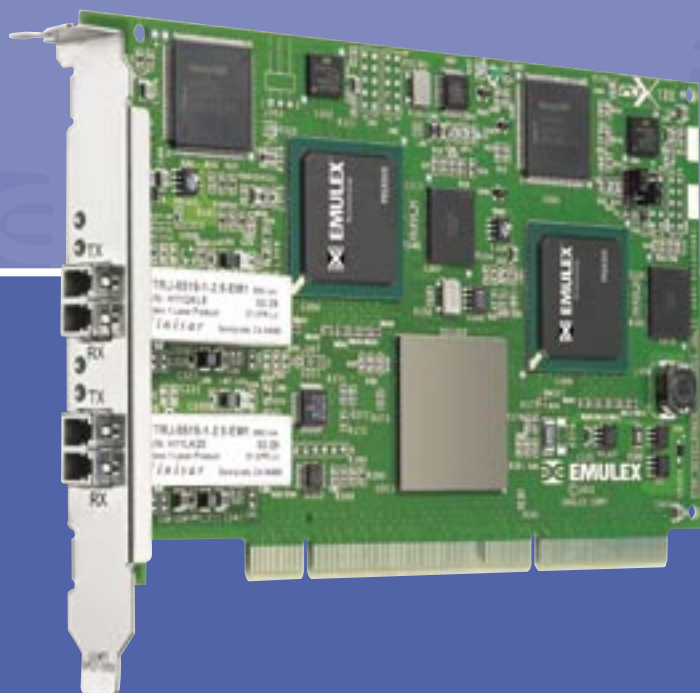
Support for FCP-2 (FC-Tape) devices

66/100/133 MHz PCI-X 1.0a and PCI 2.2 compatibility

End-to-end parity protection for high data integrity

Robust suite of software including IP and storage protocols under Windows Server 2003, Windows 2000, Windows NT, Linux, NetWare, HP-UX and Solaris

Optical small form factor (LC) interface support



LightPulse™

LP9802DC

2Gb/s Dual Fibre Channel PCI-X Host Bus Adapter

The LP9802DC Dual Channel PCI-X host bus adapter offers two independent 2Gb/s Fibre Channel HBA interfaces in a single PCI-X slot. It delivers exceptional performance through the use of two Emulex Pegasus ASICs, two 266MIPS onboard processors and high speed memory. The LP9802DC features automatic topology detection and automatic speed negotiation, which allows complete compatibility with existing 1Gb/s Fibre Channel SANs, while allowing seamless upgrades to higher speed 2Gb/s SANs.

The LP9802DC provides the functionality of two of Emulex's high performance PCI-X 133 MHz HBAs integrated onto one board, which provides bus compatibility with PCI-X or PCI 2.2 based systems. This provides the flexibility and broad interoperability needed for complex, highly scalable SANs. The LP9802DC provides a combination of features, including fabric support using F_Port and FL_Port connections, full-duplex data transfers, high data integrity features, support for all Fibre Channel topologies, and support for service classes 2 and 3, in a dual channel HBA.

The LP9802DC also features sophisticated hardware that provides superior performance in SANs, delivering low latency and high throughput in fabric, arbitrated loop and clustered environments. Support for fiber optic cabling is provided through an embedded small form factor (LC) optical interface.

DFC

2G

PCI-X

www.emulex.com

SPECIFICATIONS

STANDARDS

ANSI Fibre Channel FC-FS
ANSI Fibre Channel FC-PH
ANSI Fibre Channel FC-PI
ANSI Fibre Channel FCP
ANSI Fibre Channel FCP-2
IETF IP over FC
ANSI Fibre Channel FC-AL
ANSI Fibre Channel FC-PLDA
ANSI Fibre Channel FC-MI
ANSI Fibre Channel FC-FLA
PCI-X 1.0a
PCI local bus revision 2.2
(see hardware requirements)
Fibre Channel Class 2, 3
PHP hot plug - hot swap

ARCHITECTURE (PER CHANNEL)

Emulex Pegasus ASIC technology
2Gb/s or 1Gb/s FC Link
2MB FLASH memory
1 MB unified QDR memory

SOFTWARE ENVIRONMENTS

Windows Server 2003
Windows 2000
Windows NT
Linux
HP-UX
NetWare
Solaris

HARDWARE ENVIRONMENTS

Intel® Itanium® Processor Family
x86, SPARC and PowerPC
32/64b 33/66MHz PCI
3.3v signaling
66/100/133MHz PCI-X

ENVIRONMENTAL CONDITIONS

Operating temperature: 0° to 45°C (32° to 113°F)
Airflow required: 100 lfm
Storage temperature: -40° to 70°C (-40° to 158°F)
Relative humidity: 5% to 95% non-condensing

OPTICAL

Data rates: 1.0625/2.125Gb/s
Optics: short wave lasers
Cable: 50/125µm multi-mode fiber
62.5/125µm multi-mode fiber
Connector: LC
Distance: (1Gb/s)
500 meters (1640') 50/125 µm fiber
300 meters (984') 62.5/125 µm fiber
(2Gb/s)
300 meters (984') 50/125 µm fiber
150 meters (492') 62.5/125 µm fiber

PHYSICAL DIMENSIONS

Short length PCI

POWER REQUIREMENTS (PCI-X 133 MHZ)

Volts: +3.3 VDC (+/- 5%), 1.2A typ., 1.7A max.
+5 VDC (+/- 5%), 2.0A typ., 2.9A max.
Power: 14.0W typ., 20.1W max.

AGENCY APPROVALS

Class 1 Laser Product per DHHS 21CFR (J)
& EN60825
UL recognized to UL 1950
CUR recognized to CSA22.2, No. 950
TUV certified to EN60950
FCC rules, Part 15, Class A
ICES-003, Class A
EMC Directive 89/336/EEC (CE Mark)
- EN55022, Class A
- EN55024
Australian EMC Framework (C-Tick Mark)
- AS/NZS 3548, Class A
VCCI, Class A

LightPulse™

LP9802DC

2Gb/s Dual Fibre Channel PCI-X Host Bus Adapter

DRIVER SUPPORT

A rich suite of software complements the LP9802DC. Some examples of the features included are: LUN Masking, LUN Mapping, Persistent Binding, I/O Coalescing, full fabric boot in x86, Intel® Itanium® processor family and SPARC environments, as well as support for simultaneous protocol (SCSI & IP) operation. In addition, most drivers include a full-featured implementation of the FC-MI HBA Management API interface. These features enable advanced storage area network (SAN) implementations in Windows Server 2003, Windows 2000, Windows NT, Linux, HP-UX, Solaris and NetWare environments. Supported drivers are also fully compatible with the Emulex LP10000, LP9802, LP9002L, LP8000, LP7000E, LP9402DC, and LP9002DC host bus adapters. Windows, Linux and NetWare drivers are also compatible with the LP1050, LP850, LP952L and LP982.

ORDERING INFORMATION

LP9802DC-F2
Embedded multi-mode optic interface (LC)

This document refers to various companies and products by their trade names. In most, if not all cases, their respective companies claim these designations as trademarks or registered trademarks. This information is provided for reference only. Although this information is believed to be accurate and reliable at the time of publication, Emulex assumes no responsibility for errors or omissions. Emulex reserves the right to make changes or corrections without notice.

04-038/9/03

www.emulex.com

