

MAJOR FEATURES

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

Automatic speed negotiation

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

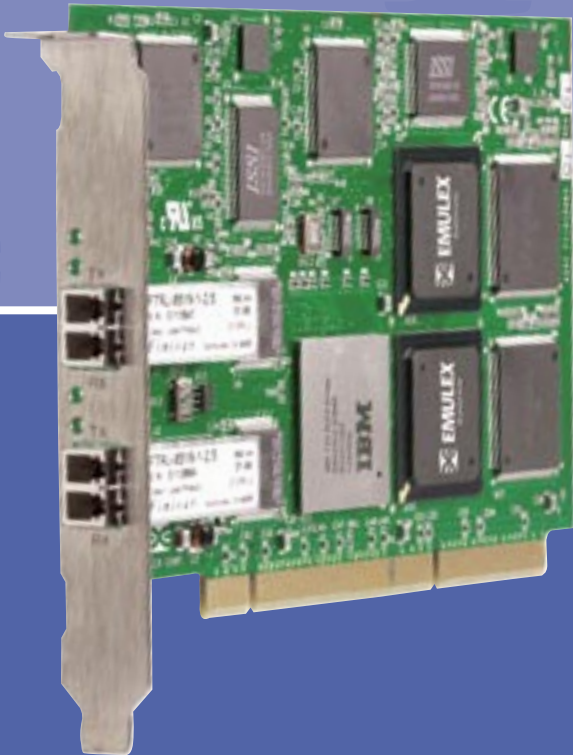
Support for FC-Tape (FCP-2) devices

64 bit 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, AIX and Solaris

Optical small form factor (LC) interface support



LightPulse™

LP9402DC

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

The LP9402DC 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 Centaur ASICs, two 266MIPS onboard processors, high speed buffer memory. The LP9402DC features automatic speed negotiation capability which allows complete compatibility with existing 1Gb/s Fibre Channel SANs, while allowing seamless upgrades to higher speed 2Gb/s SANs.

The LP9402DC architecture is based on two of Emulex's high performance 2Gb/s HBAs integrated into one board with a PCI-X bridge to provide 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 LP9402DC 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 LP9402DC 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 the fiber optic cabling is provided through embedded small form factor (LC) optical interfaces.

DFC

2G

PCI-X

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SPECIFICATIONS

STANDARDS

ANSI Fibre Channel FC-FS
ANSI Fibre Channel FC-PH/PI
ANSI Fibre Channel FC-AL
ANSI Fibre Channel FC-PLDA
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 Centaur ASIC technology
2Gb/s or 1Gb/s FC Link
2MB FLASH memory
1MB code RAM
128KB buffer RAM

SOFTWARE ENVIRONMENTS

Windows Server 2003
Windows 2000
Windows NT
Linux
NetWare
AIX
Solaris x86

HARDWARE ENVIRONMENTS

x86, SPARC and PowerPC PCI hardware platforms
3.3v signaling
up to 66MHz PCI
up to 133MHz PCI-X

POWER REQUIREMENTS

Volts: +3.3 VDC ($\pm 5\%$)
Power: 13.8 watts typical (18w max)

PHYSICAL DIMENSIONS

short length PCI

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

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

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DRIVER SUPPORT

A rich suite of software support complements the LP9402DC, including storage protocol (SCSI), network protocol (IP) and multi-protocol (SCSI & IP) operation. These enable advanced storage area network (SAN) implementations in Windows Server 2003, Windows 2000, Windows NT, Linux, NetWare, AIX and Solaris environments. All drivers are also fully compatible with the Emulex LP10000, LP9802, LP9002L, LP8000, LP8000DC, LP7000E, LP1050, LP952L and LP850 host bus adapters.

ORDERING INFORMATION

LP9402DC-F2
embedded multi-mode optic interface (LC)

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