EMULEX™
We network storage

MAJOR FEATURES

Simultaneous full duplex 2Gb/s Fibre Channels deliver up to 400MB/s

Automatic speed negotiation

Full fabric support using F_Port and FL_port connections

Onboard hardware context cache for superior fabric performance

Support for concurrent multiple protocols (SCSI and IP)

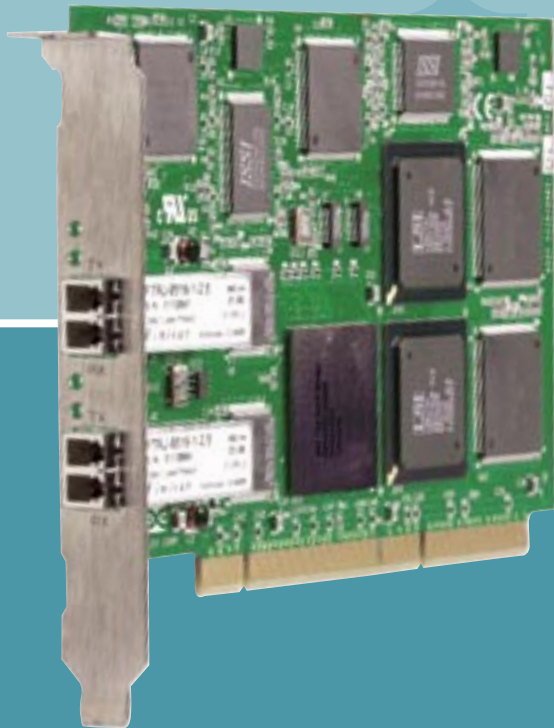Full support for both FC service class 2 and 3

Support for FC-Tape (FCP-2) devices

64 bit 66MHz 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, HP-UX, Linux, NetWare, AIX and Solaris

Optical small form factor (LC) interface support

LightPulse™
LP9002DC
2Gb/s Dual Fibre Channel PCI Host Bus Adapter

The LP9002DC Dual Channel PCI host bus adapter offers two independent 2Gb/s Fibre Channel HBA interfaces in a single PCI slot. It delivers exceptional performance through the use of two Emulex Centaur ASICs, two 266MIPS onboard processors, high speed buffer memory, and a high performance 64 bit 66MHz PCI bridge. The LP9002DC 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 LP9002DC architecture is based on two of Emulex's high performance 2Gb/s HBAs integrated into one board with a PCI bridge to provide bus compatibility with PCI 2.2 based systems. This provides the flexibility and broad interoperability needed for complex, highly scalable SANs. The LP9002DC 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 LP9002DC 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 **www.emulex.com**

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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 local bus revision 2.2 (see hardware requirements)

Fibre Channel Class 2, 3

PHP hot plug - hot swap

SW-2 switch standard

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

HP-UX

Linux

AIX

NetWare

Solaris x86

HARDWARE ENVIRONMENTS

x86, SPARC and PowerPC PCI hardware platforms

3.3V signaling, 5V tolerant

33/66MHz PCI

32/64 bit bus

OPTICAL

Data rates: 1.0625/2.125Gb/s

Optics: short/long 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

Volts: +3.3 VDC (± 5%)

Power: 12.3 watts typical (17.9w max)

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

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

DRIVER SUPPORT

A rich suite of software support complements the LP9002DC, 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, HP-UX, NetWare, AIX and Solaris environments. All drivers are also fully compatible with the Emulex LP10000, LP9802, LP9402L, LP8000, LP7000E, LP1050, LP952L and LP850 host bus adapters.

ORDERING INFORMATION

LP9002DC–F2
embedded multi-mode optic interface (LC)

CE

Registered ISO Supplier FS28361

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EMULEX® LIGHTPULSE™
2·GIG
LP9002DC
2Gb/s Dual Fibre Channel PCI

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