

LightPulse™ LP9002L

2Gb/s Fibre Channel PCI Host Bus Adapter

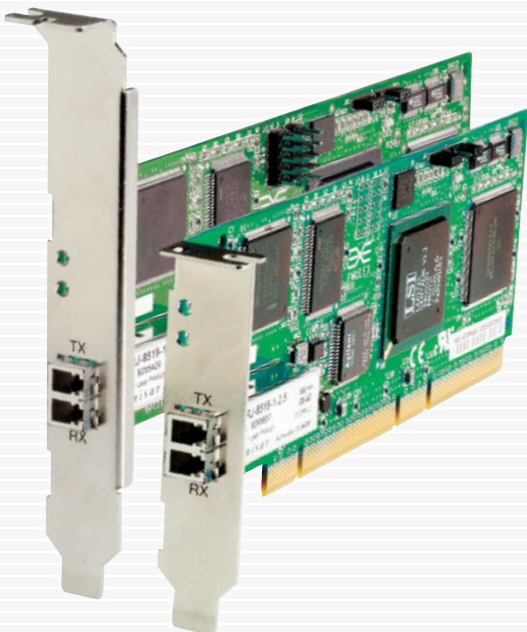
The LightPulse™ LP9002L Fibre Channel PCI host adapter provides support for 2Gb/s Fibre Channel data rates, delivering the industry's highest performance. The LP9002L features automatic speed negotiation capability which allows complete compatibility with existing 1Gb/s Fibre Channel SANs, while allowing seamless upgrades to higher speed 2Gb/s SANs.

The LP9002L provides the flexibility and broad interoperability needed for complex highly scalable SANs. The LP9002L provides a unique combination of features, including switched 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 class 2 and 3.

The LP9002L also features sophisticated hardware that provides superior performance in storage area networks, delivering low latency and high throughput in switched, arbitrated loop and clustered environments. Support for fiber optic cabling is provided through a small form factor (LC) optical embedded interface.

Major Features

- simultaneous full duplex 2Gb/s Fibre Channel delivers 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 use of multiple protocols (SCSI, IP)
- full support for both FC service Class 2 and 3
- support for FC-Tape (FC-2) devices
- 64 bit, 66MHz low profile or standard short form factor PCI
- end-to-end parity protection for high data integrity
- buffered data architecture to support up to 50km cabling at full 2Gb/s bandwidth
- robust suite of software including IP and storage protocols under Windows 2000, Windows NT, HP-UX, Linux, NetWare, Solaris and AIX
- optical small form factor (LC) interface support either short-wave or long-wave optics



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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 power requirements)

Fibre Channel Class 2, 3
PHP hot plug - hot swap

architecture

Emulex Centaur ASIC technology
up to 66MHz PCI bus master DMA
2Gb/s or 1Gb/s FC Link
2MB FLASH memory
1MB code RAM
256KB buffer RAM

software environments

Windows 2000
Windows NT
HP-UX
Linux
NetWare
Solaris
AIX

hardware environments

x86, SPARC and PowerPC PCI hardware platforms
3.3 or 5v tolerant signaling

optical

data rates 1.0625/2.125Gb/s
optics short/long wave lasers
cable 9/125µm single-mode fiber
50/125µm multi-mode fiber
62.5/125µm multi-mode fiber

connector LC
distance (1Gb/s)
10K meters (32,800') 9/125µm fiber
500 meters (1640') 50/125 µm fiber
300 meters (984') 62.5/125 µm fiber
(2Gb/s)
10K meters (32,800') 9/125µm fiber
300 meters (984') 50/125 µm fiber
150 meters (492') 62.5/125 µm fiber

physical dimensions

short, low profile MD2 form factor
low profile or standard bracket
167.64mm x 64.41mm
(6.60" x 2.54")

power requirements

volts +3.3 VDC (± 5%)
power 8.5 watts typical

environmental conditions

operating temperature
0° to 45°C (32° to 113°F)
airflow required
100 LF/m

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

The LightPulse™ LP9002L is complemented by a rich suite of software support including storage protocol (SCSI), network protocol (IP) as well as concurrent multi-protocol (SCSI & IP) operation, enabling advanced storage area network (SAN) implementations in Windows 2000, Windows NT, HP-UX, Linux, NetWare, Solaris and AIX environments. All drivers are also fully compatible with the Emulex LP9000, LP8000, LP7000E, LP952L and LP850 host bus adapters.

Ordering Information

LP9002L-F2

embedded multi-mode optic interface (LC)

LP9002L-X2

embedded long wave optic interface (LC)



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