

LightPulse™ LP9000

1Gb/s Fibre Channel PCI Host Bus Adapter

The LightPulse™ LP9000 Fibre Channel PCI host adapter provides the flexibility and broad interoperability needed for complex highly scalable SANs. The LP9000 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 LP9000 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 both copper and fiber optic cabling is provided through standard GBIC interfaces.

The LP9000 delivers exceptional performance through the use of Emulex's Centaur ASIC, a 266MIPS onboard processor and state of the art dual ported buffer memory. The LP9000 features a 64 bit, 66MHz PCI interface and provides the richest set of features available.



Major Features

- simultaneous full duplex 1Gb/s Fibre Channel delivers up to 200MB/s
- 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 and IP)
- full support for FC service Class 2 and 3
- support for FC-Tape (FC-2) devices
- 64 bit, 66MHz PCI
- end-to-end parity protection for high data integrity
- buffered data architecture to support up to 100km cabling
- robust suite of software including IP and storage protocols under Windows 2000, Windows NT, HP-UX, Linux, NetWare, Solaris and AIX
- GBIC fiber optic or copper physical interfaces

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Specifications

standards

ANSI Fibre Channel FC-FS
ANSI Fibre Channel FC-PH
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
gigabit interface converter (GBIC)

architecture

Emulex Centaur ASIC technology
up to 66MHz PCI bus master DMA
512KB 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

copper

data rate 1.0625Gb/s
cable type dual twinax or quad axial
connector DB9
distance 30 meters (98')

optical

data rate 1.0625Gb/s
optics short/long wave lasers
cable 9/125µm single-mode fiber
50/125µm multi-mode fiber
62.5/125µm multi-mode fiber
connector dual SC
distance 10Kmeters (32,800') 9/125µm fiber
500 meters (1640') 50/125 µm fiber
300 meters (984') 62.5/125 µm fiber

physical dimensions

short PCI form factor
174.75mm x 106.68mm
(6.88" x 4.20")

power requirements

volts..... 5 VDC
power 10 watts typical

environmental conditions

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

storage temperature

-10° to 55°C (14° to 131°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 B
ICES-003, Class B
EMC Directive 89/336/EEC (CE Mark)
EN55022, Class B
EN55024
Australian EMC Framework (C-Tick Mark)
AS/NZS 3548, Class B
VCCI, Class B

Driver Support

The LightPulse™ LP9000 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 LP9002L, LP8000, LP7000e, LP952L and LP850.

Ordering Information

LP9000-T1

copper DB9 GBIC interface

LP9000-N1

multi-mode optic GBIC interface

LP9000-L1

single-mode optic GBIC interface



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