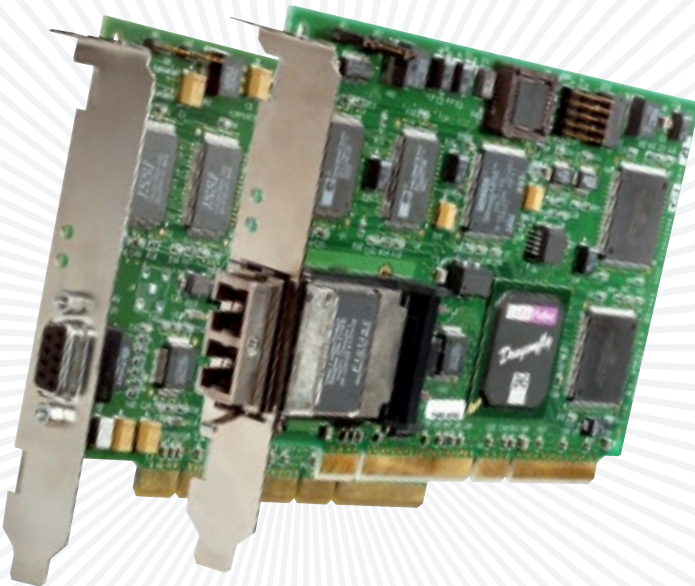


# LP8000

fibre channel PCI host bus adapters



**DESCRIPTION |** The LightPulse™ LP8000 fibre channel PCI host bus adapters deliver exceptional performance through the use of Emulex's Dragonfly ASIC, a 266 MIPS onboard processor and state of the art dual-ported buffer memory. The LP8000 features a 64-bit PCI interface and provides the richest set of features available.

The 1Gb/s LP8000 is designed to support mission-critical enterprise applications. The LP8000 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 classes 2 and 3.

The LP8000 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 or embedded interfaces.

## MAJOR FEATURES |

simultaneous full duplex fibre channel 1.0625 Gb/s transfers

supports all fibre channel topologies

full fabric support using F\_Port and FL\_Port connections

full support for both FC service Class 2 and 3

64 bit PCI data and addressing

support for multiple protocols

end-to-end parity protection

application programming interface (API)

robust suite of software including IP and storage protocols under Windows 2000, Windows NT, NetWare, Solaris and AIX

GBIC (including longwave optical) or embedded physical interfaces

**SPECIFICATIONS |**

**standards**

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  
 fibre channel Class 2, 3  
 gigabit interface converter (GBIC)

**architecture**

Emulex Dragonfly ASIC technology  
 up to 33 MHz PCI bus master DMA  
 512KB FLASH memory  
 1MB code RAM  
 256KB buffer RAM

**software environments**

Windows 2000 SCSI and IP  
 Windows NT 4.0 (Alpha & x86) SCSI and IP  
 NetWare 4.2/5.x SCSI  
 Solaris 2.5.1/2.6/7 (Sparc & x86) SCSI and IP  
 AIX 4.1/4.2 SCSI and IP

**hardware environments**

x86, SPARC, PowerPC and Alpha  
 PCI hardware platforms

**copper**

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

**optical**

data rates..... 1.0625 Gb/s  
 optics ..... short/long wave lasers  
 cable ..... 9/125µm single-mode fiber  
                   50/125µm multi-mode fiber  
                   62.5/125µm multi-mode fiber  
 connector type .... dual SC  
 distance..... 10K meters (32,800') 9/125µm fiber  
                   500 meters (1,640') 50/125 µm fiber  
                   175 meters (574') 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)

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\*  
                   EN50082-1  
 Australian EMC Framework (C-Tick Mark)  
                   AS/NZS 3548, Class B\*  
 VCCI, Class B\*

\*note: LP8000-D1 is Class A

**DRIVER SUPPORT |**

The LightPulse™ LP8000 is complemented by a rich suite of software support including storage protocol (SCSI), network protocol (IP) as well as multi-protocol (SCSI & IP) operation, enabling advanced storage area network (SAN) implementations in Windows 2000, Windows NT, NetWare, Solaris and AIX environments. All drivers are also fully compatible with the Emulex LP9002, LP9000, LP8000S, LP7000E, LP950 and LP850 (2000/NT and NetWare only) host bus adapters.

**ORDERING INFORMATION |**

- LP8000-D1** embedded copper DB9 interface
- LP8000-F1** embedded multi-mode optic interface
- LP8000-T1** copper DB9 GBIC interface
- LP8000-N1** multi-mode optic GBIC interface
- LP8000-L1** single-mode optic GBIC interface

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see [www.emulex.com](http://www.emulex.com) for fibre channel white papers, articles and additional product information.



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