LightPulse™ LP850

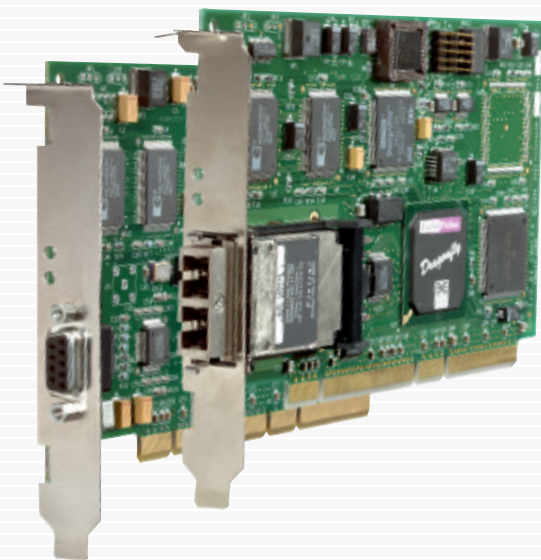## 1Gb/s Fibre Channel PCI Host Bus Adapter

The LightPulse™ LP850 Fibre Channel PCI host bus adapters deliver exceptional performance through the use of Emulex's Dragonfly ASIC, a 266MIPS onboard processor and high speed buffer memory. The LP850 features a 64 bit PCI interface and provides the richest feature set available.

The LP850 provides high-performance Fibre Channel connectivity for entry-level Windows 2000, Windows NT, Linux and NetWare systems. Based on the Emulex LP8000 architecture, the LP850 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 LP850 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. The LP850 is available with copper and short wave optical GBICs as well as embedded copper and optic interfaces.

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, 33MHz PCI
- end-to-end parity protection for high data integrity
- robust suite of software including IP and storage protocols under Windows 2000, Windows NT, Linux and NetWare
- GBIC or embedded physical interfaces

LightPulse™
LP850
1Gb/s Fibre Channel PCI Host Bus Adapter

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
PHP hot plug - hot swap
gigabit interface converter (GBIC)

architecture
Emulex Dragonfly ASIC technology
up to 33MHz PCI bus master DMA
512KB FLASH memory
1MB code RAM
128KB buffer RAM

software environments
Windows 2000
Windows NT
Linux
NetWare

hardware environments
x86 PCI hardware platforms
5v 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 wave lasers
cable .... 50/125µm multi-mode fiber
62.5/125µm multi-mode fiber
connector .... dual SC
distance .... 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*
note: LP850-D1 is Class A

Driver Support
The LightPulse™ LP850 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, Linux and NetWare environments. All drivers are also fully compatible with the Emulex LP9002L, LP9000, LP8000, LP7000E and LP952L host bus adapters.

Ordering Information

LP850–D1
embedded copper DB9 interface

LP850–F1
embedded multi-mode optic interface

LP850–N1
multi-mode optic GBIC interface

CE   Registered ISO Supplier FS28361

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We network storage