



## ARCHITECTURE

The Emulex LightPulse™ Fibre Channel PCI Host Adapter is designed using 3 custom VLSI chips. These highly integrated chips provide a simple, high level command block interface to Fibre Channel protocols using a built-in protocol engine with an integrated RISC processor. This reduces host requirements, while simplifying the driver interface.

## HOST SUPPORT

The LightPulse Fibre Channel PCI Host Adapter provides simultaneous and concurrent multiple driver support. Up to four independent data paths/protocols can interoperate autonomously with the host adapter. Emulex is providing both network and storage drivers, IP and SCSI-FCP for Microsoft Windows NT, IBM AIX, and Mac SCSI environments.

## SPECIFICATIONS

### STANDARDS

ANSI Fibre Channel FC-PH Revision 4.3  
ANSI Fibre Channel FC-AL Revision 4.5  
FCSI 301 Rev 1.0 Gigabaud Link Module  
PCI Local Bus Revision 2.0/2.1  
Fibre Channel Class 1, 2, 3 and intermix

### ARCHITECTURE

3 chip, 32-Bit RISC protocol accelerator up to 33 Mhz PCI bus master DMA  
512 KBytes FLASH memory  
128 KBytes - 512 KBytes context RAM  
128 KBytes - 512 KBytes buffer RAM

### SOFTWARE ENVIRONMENTS

Windows NT 3.5, 3.5.1, 4.0 SCSI-FCP and IP  
IBM AIX 4.1 SCSI-FCP, and IP  
Mac OS SCSI

### HARDWARE ENVIRONMENTS

x86 and PowerPC PCI hardware platform

### HARDWARE INTERFACE

80-pin GLM connector for both fiber optic and copper interface

### COPPER GLMs

Data Rate	1062.5 Mbits/s
Cable Type	twinax cable
Connector Type	DE9
Distance	30 meters

**OPTICAL GLMs**

Data Rates	265.625, 531.25, & 1062.5 Mbit/s
Optics	short wave/long wave lasers
Cable	9/125 µm singlemode fiber 50/125 µm multimode fiber 62.5/125 µm multimode fiber
Connector Type	dual SC
Distance	10,000 meters (9/125 µm fiber) 500 meters (50/125 µm fiber) 175 meters (62.5/125 µm fiber)

**PHYSICAL DIMENSIONS**

Short PCI form factor 6.88 inch X 4.20 inch

**POWER REQUIREMENTS**

Volts: +5VDC Power: 8 watts (w/o GLM)

**ENVIRONMENTAL CONDITIONS**

Operating Temperature	0 to 45 degrees C
Storage Temperature	-10 to 55 degrees C
Relative Humidity	5% to 95% non-condensing

**AGENCY APPROVALS**

- Class 1 Laser Product per DHHS 21 CFR (J) and EN60825
- UL Recognized to UL1950
- CUR Recognized to CSA22.2, No. 950
- TUV Certified to EN60950
- FCC Rules, Part 15, Class A
- DOC Rules, Class A
- EMC Directive 89/336/EEC (CE Mark)
  - EN55022, DISPR22/85, Class A
  - EN50082-1

[Emulex Fibre Channel Index](#)

