



## 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  $\mu$ m singlemode fiber  
50/125  $\mu$ m multimode fiber  
62.5/125  $\mu$ m multimode fiber  
Connector Type dual SC  
Distance 10,000 meters (9/125  $\mu$ m fiber)  
500 meters (50/125  $\mu$ m fiber)  
175 meters (62.5/125  $\mu$ m 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

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