☒ LightPulse Fibre Channel PCI Adapter

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.

S P E C I F I C A T I O N S

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

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