

# LightPulse<sup>®</sup> LP1005DC

for IBM BladeCenter<sup>™</sup>

Designed specifically for the IBM BladeCenter<sup>™</sup>

Designed to the  
"Open BladeCenter Design Specifications"

Dual-port PCI-X to 2Gb/s Fibre Channel  
mezzanine model

Driver compatibility across Emulex product line

Upgradeable firmware based architecture

Centralized HBA management suite  
HBAnyware<sup>™</sup>

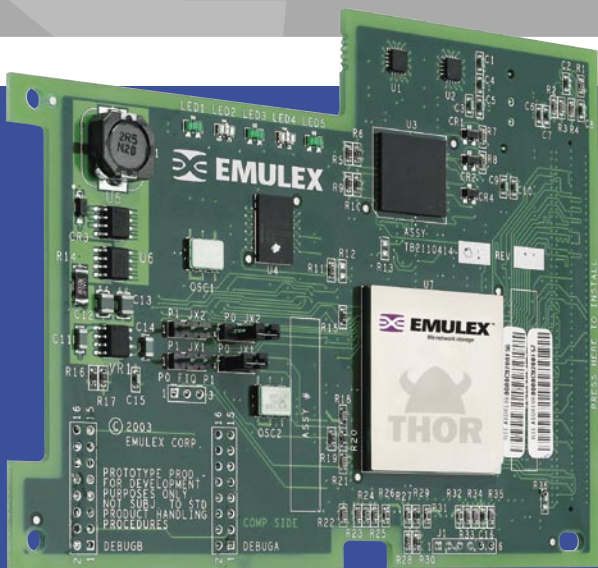
The Emulex family of LP10000/1050 Fibre Channel host bus adapters (HBAs) offers highly integrated 2Gb/s Fibre Channel connectivity solutions for enterprise and midrange-class storage area networks (SANs). The LP1005DC is a new member of the LP10000/1050 family. Using IBM's "Open BladeCenter Design Specifications", the LP1005DC was specifically designed for use in the IBM BladeCenter<sup>™</sup>. The LP1005DC HBA delivers state of the art performance through the use of Thor, Emulex's sixth generation Fibre Channel controller and is available in a custom form factor.

Blade Servers offer a broad range of networking options integrated into the chassis to simplify infrastructure complexity and manageability while lowering total cost of ownership. They are excellent platforms for commerce, database, and ERP/CRM applications, as well next-generation network and Fibre channel applications requiring high performance and scalability. The LP1005DC, like all Emulex adapters is designed to meet the demands of these environments.

The Blade architecture allows the LP1005DC to use the same drivers and management tools as the LP10000/1050 HBAs for PCI, PCI-X, and PCIe systems. Emulex's unique Service Level Interface (SLI) driver architecture, which enables the independence of the operating systems device driver from the underlying HBA platform, will allow OEMs and end users to migrate to this new system architecture seamlessly (without having to change or rewrite drivers utilities and other management tools). Emulex's firmware-based architecture, which allows for new features and other upgrades without costly changes to the adapter hardware, provides the kind of technical flexibility and investment protection that is critical when working with new and evolving technology.

The Emulex LP1005DC HBA will leverage Emulex's centralized HBA management suite, HBAnyware<sup>™</sup>. HBAnyware is driver-based technology that enables discovery and complete management of HBAs within the SAN, reducing total cost of ownership and planned downtime while enabling sophisticated management capabilities such as remote firmware upgrades from a single console anywhere in a SAN.

Emulex HBAs are supported by a wide range of operating system drivers, including Windows, Solaris, Linux, HP-UX, and NetWare, as well as a variety of OEM-developed operating system drivers. Emulex drivers support an open standards-based management application programming interface (API), which allows OEM customers and partners to seamlessly integrate support for Emulex's HBAs, enabling the development and implementation of advanced storage area network management services.



# LightPulse® LP1005DC

for IBM BladeCenter™

### STANDARDS

ANSI Fibre Channel:  
FC-FS, FC-PH, FC-PI, FCP, FCP-2, FC-AL, FC-PLDA,  
FC-MI, FC-FLA, IETF IP over FC

PCI-X 1.0a and PCI 2.3

Fibre Channel Class 2 and 3

### ARCHITECTURE

Emulex LightPulse® technology

2Gb/s or 1Gb/s FC Link

Quad Data Rate (QDR) SRAM Unified Data  
Buffer and Code Space memory

16+ Buffer-to-Buffer Credits supported  
(per channel)

2K+ Contexts Cached Onboard (per channel)

### DRIVER SUPPORT

Windows Server 2003

Windows 2000

Windows NT

NetWare

Linux

OEM Custom Drivers

### HARDWARE ENVIRONMENTS

x86 and Intel® Xeon processor family

PowerPC PCI hardware platforms

3.3V signaling

32/64-bit 33/66MHz PCI

66/100/133MHz PCI-X

### PHYSICAL DIMENSIONS

Custom form factor

Custom bracket

### POWER & ENVIRONMENTAL REQUIREMENTS

volts: +3.3 and +5 VDC

power @ 100/133MHz (typical/max):  
LP1005DC: 8.4W (Typical)

operating temperature: 0°-52°C (32°-113°F)

airflow required: 350 lf/m

storage temperature: -40°-70°C (-40°-158°F)

relative humidity: 5% to 95% non-condensing

### AGENCY APPROVALS

UL recognized to UL 60950-1:2003

CUR recognized to CSA22.2, No.60950-1-03

TUV certified to EN60950 - 1:2001 +All

FCC rules, Part 15, Class A

ICES-003, Class A

EMC Directive 89/336/EEC (CE Mark)

- EN55022, Class A

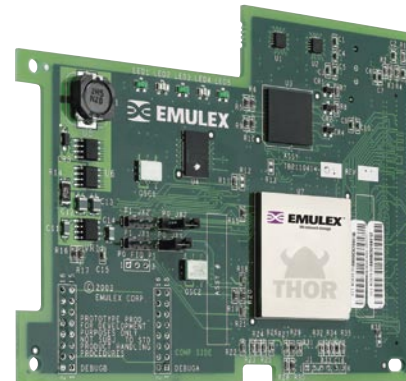
- EN55024

Australian EMC Framework (C-Tick Mark)

- AS/NZS 3548, Class A

VCCI, Class A

BSMI (Taiwan), Class A



### SOFTWARE FEATURES

A rich suite of software complements the LP10000 family of enterprise class Fibre Channel HBAs. Some examples of the features included are, LUN Masking, LUN Mapping, Persistent Binding, I/O Coalescing. All drivers are also fully compatible with the Emulex LP9802, LP9802DC, LP9002L, LP8000, LP7000E, LP9402DC, and LP9002C host bus adapters. Windows, Linux and NetWare drivers are also compatible with the LP982, LP952L and LP850.

HBAnyware™ support is included in the driver packages and provides in-band remote management over FC SAN.

### ORDERING INFORMATION

LP1005DC-CM2- 2Gb/s FC PCI-X HBA for IBM BladeCenter™

05-285 04/05

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