



2Gb/s Fibre Channel

MAJOR FEATURES

- Designed specifically for the Dell PowerEdge™ 1855/1955 blade server
- · 2 Gb/s Fibre Channel link
- Dual Fibre Channel ports
- PCI Express x4
- Superior Performance
 - Full duplex 2 Gb/s bandwidth per port
 - Capable of sustaining up to 100,000 I/Os per second per port
 - Frame level multiplexing and out of order frame reassembly
 - On-board hardware context cache for superior fabric support and high transaction performance
- End-to-end data protection with hardware parity and CRC support
- HBAnyware™ provides centralized, in-depth management of HBAs anywhere in the SAN
- Enterprise AutoPilot Installer™ simplifies and accelerates the HBA installation process
- Firmware-based architecture enables HBAs to be updated with new features & functionality, maintaining investment value
- Hardware independent drivers ease management & allow driver upgrade independently of HBA firmware
- SMI-S and common HBA API support enable seamless upward integration into enterprise storage and server management solutions
- Universal boot provides multi-platform support for remote SAN boot, offering enhanced server management and reduced system costs
- Detailed, real-time event logging and tracing enables quick diagnosis of SAN problems
- RoHS Compliant (Directive 2002/95/EC)



Generations Ahead

www.emulex.com

Mezzanine Card Host Bus Adapter

The Emulex® LightPulse® LPe1105-M delivers on Emulex's history of excellence in performance, reliability, and manageability. The LPe1105-M is a high performance, dual-channel PCI Express Fibre Channel HBA that's ideally suited for large enterprise or mixed operating system Storage Area Network (SAN) environments. With renowned driver support for Windows and Linux operating systems, the LightPulse LPe1105-M can be effectively applied within a broad range of storage networking solutions.

Emulex LPe1105-N

Emulex is the most trusted name in storage networking connectivity. That's because each and every Emulex LightPulse HBA leverages six generations of advanced, field-proven technologies to deliver a distinctive set of benefits that the world's largest enterprises have come to rely on. From their unique firmware upgradeable architecture, to their common driver model, Emulex HBAs are simply "Generations Ahead" of competing solutions.

SUPERIOR QUALITY AND RELIABILITY— Emulex HBAs deliver industry leading reliability levels by utilizing a field-proven, single-chip design that minimizes components. Emulex HBAs also use a combination of parity, CRC, ECC and other advanced error checking methods to verify the integrity of data blocks, which are passed from the host interface through the HBA.

THE MOST EFFICIENT INSTALLATION AND MANAGEMENT— Emulex management tools automate installation and provide local and remote HBA configuration and management. Emulex's unique Service Level Interface (SLI) architecture allows complete independence of device drivers from HBA hardware and firmware. That means no reboots during most configuration changes and no need for OS specific firmware. A single driver model simplifies management across multiple generations of HBAs. In addition, Emulex HBAs have a firmware-based architecture that enables feature and performance upgrades without costly hardware changes, for long-term investment protection and seamless backward compatibility.

MAXIMUM SAN PERFORMANCE— Emulex HBAs deliver maximum performance levels in real-world application environments, with superior full-duplex data throughput and I/Os per second. And Emulex's exclusive Dynamic Frame Multiplexing ensures consistently superior performance in mixed load environments such as disk and tape back-up applications.

THE FASTEST DIAGNOSIS AND RECOVERY— Comprehensive diagnostic functions, coupled with detailed event logging and tracing, provide for fast, efficient SAN troubleshooting.

THE BROADEST ENTERPRISE DEPLOYMENT— With the largest installed base of any Fibre Channel HBA supplier, Emulex is trusted by the world's largest, mission critical enterprises. Long-standing partnerships with leading storage vendors ensure unparalleled compatibility levels.

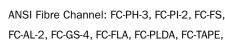


STANDARDS



Emulex® LPe1105-N

Mezzanine Card Host Bus Adapter



FCP-2, and RFC 2625 (IP over FC)

PCI Express base spec 1.0a

Fibre Channel class 2 and 3

PHP hot plug-hot swap

ARCHITECTURE

Emulex LightPulse® technology 2Gb/s or 1Gb/s FC Link speeds automatically detected 2.5Gb/s PCIe lane negotiation

Integrated data buffer & code space memory

DRIVER SUPPORT

automatically performed

Windows Server 2003 Windows 2000 Server Linux (RHEL 3 & 4 and SLES 9)

POWER AND ENVIRONMENTAL REQUIREMENTS

volts: 3.3 and 5.0V DC

power consumption (typ/max):

4.6W / 6.5W

operating temperature:

0° to 50°C (32° to 122°F)

airflow required:

200 lf/m

storage temperature:

-40° to 70°C (-40° to 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

FCC rules, Part 15, Class A

ICES-003, Class A

EMC Directive 89/336/EEC and 2004/108/EC (CE Mark)

- EN55022, Class A
- EN55024

Australian EMC Framework (C-Tick Mark)

- AS/NZS CISPR22:2022, Class A

VCCI (Japan), Class A

MIC (Korea), Class A

ORDERING INFORMATION

For ordering information on the Emulexbased Fibre Channel Mezzanine card, Dell Part No. LPe1105-M, visit

www.dell.com

SOFTWARE FEATURES

A rich suite of software complements the LightPulse LPe1105-M. Setup programs like Enterprise AutoPilot Installer streamline the installation of HBA drivers and management applications to a few simple commands, and provide customizable scripting capabilities for both interactive and automated installations. As a centralized management suite, HBAnyware incorporates agent technology that provides discovery, reporting and management of local and remote HBAs with both in-band Fibre Channel and out-of-band IP support, enabling sophisticated management capabilities such as remote firmware upgrades and advanced diagnostics from a single console anywhere in the SAN.

All Emulex device drivers are fully compatible with previous generations of Emulex host bus adapters. A single driver binary supports all Emulex HBAs on a given host platform, streamlining the management of device drivers in environments with multiple generations and versions of HBAs, simplifying the upgrade process, and providing investment protection.

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