

LightPulse® LPe1205-HP

HP Part No. 456972-B21

UNPARALLELED MANAGEABILITY, RELIABILITY, PERFORMANCE AND EASE OF DEPLOYMENT



Streamlined installation and management, unrivaled scalability, and industry-leading virtualization support makes the Emulex LightPulse® LPe1205-HP dualchannel mezzanine card an ideal solution for the HP BladeSystem c-Class platform. With powerful management tools and seamless integration into HP Storage Essentials (SE) and System Insight Manager (SIM), the LPe1205-HP delivers maximum performance in the broadest range of applications and environments.

Proven design, architecture and interface

The highly integrated single-chip design of LightPulse HBAs minimizes onboard components, while advanced error-checking methods assure robust data integrity. The Emulex firmware-based architecture enables feature and performance upgrades without costly hardware changes. The unique Service Level Interface (SLI[™]) allows use of a common driver across all models of Emulex HBAs. Installation and management applications are designed to minimize reboots and further simplify deployment.

8Gb/s Fibre Channel

Mezzanine Card Host Bus Adapter for the HP BladeSystem c-Class

Key benefits

- Superior quality and reliability ensures data availability
- Highly efficient installation accelerates deployment and reduces administration costs
- Maximum SAN performance increases scalability and user satisfaction in large enterprise installations
- Robust interoperability simplifies deployment and upgrades of SAN hardware and software
- Provides efficient host utilization & compliance with SAN management best practices
- Supports IT server consolidation and energy conservation initiatives

Key features

- Support for Message Signaled Interrupts eXtended (MSI-X), improves host utilization & enhances application performance
- Comprehensive virtualization capabilities with support for N_Port ID Virtualization (NPIV)
- Simplified installation and configuration using common HBA drivers and automated installation utilities
- Efficient centralized administration of Emulex HBAs anywhere in the SAN via powerful management applications
- Common driver model ensures that one driver supports all generations of Emulex HBAs on a given OS platform
- Easy deployment of new firmware with minimal server reboots
- Support for Industry Standard Fibre Channel Security Protocol (FC-SP) enabling server to fabric authentication across the SAN
- HP Virtual Connect technology provides enahnced provisioning between storage and virtual machines



LightPulse®

SPECIFICATIONS

Standards

- ANSI Fibre Channel: FC-PI-4, FC-FS-2, FC-FS-2/AM1, FC-LS, FC-AL-2, FC-GS-6, FC-FLA, FC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SP, FC-HBA and SMI-S v1.1
- PCI Express base spec 2.0
- = Fibre Channel class 2 and 3

Architecture

- Dual-channel
- 8Gb/s, 4Gb/s or 2Gb/s FC Link speeds automatically detected
- Integrated data buffer and code space memory

Comprehensive OS Support

 Windows Server 2003/2008, Linux, VMware, HP-UX 11i v3

Hardware Environment

- HP BladeSystem c-Class blade server platforms

Power & Environmental Requirements

- = Volts: 3.3
- Power consumption (typ/max): 6.8W / 10W
- Operating temperature: 0° to 60°C (32° to 140°F)
- Storage temperature: -40° to 70°C (-40° to 158°F)
- Relative humidity: 5% to 95% non-condensing

Deployment & Management Features

- Emulex's feature-rich deployment and management facilities streamline and simplify HBA deployment and device management, helping to reduce administration costs and protect IT investments.
- Emulex HBAnyware management application enables secure, centralized discovery, monitoring, reporting, and administration of Emulex host bus adapters (HBAs) and converged network adapters (CNAs) on local and remote hosts. Powerful automation capabilities facilitate remote driver parameter, firmware and boot code upgrades. Advanced diagnostic features and HBA statistics help to optimize management and network performance. In addition to the GUI interface. management functions can also be performed via a scriptable Command Line Interface (CLI) as well as a web browser. With in-band and out-of-band management capabilities, Emulex provides data center administrators with the greatest level of management flexibility.
- Automated installation and configuration of driver and management tools simplifies deployment of multiple HBAs for Windows environments. A single installation of drivers and management utilities eliminates multiple reboots and ensures that each component is installed correctly and the HBA is ready to use.
- Emulex management instrumentation is based on Open Management Standards. SMI-S and common HBA API support enable seamless upward integration into enterprise storage and server management solutions such as HP Storage Essentials (SE) and System Insight Manager (SIM).

Additional Features

Emulex LightPulse HBA technology features Frame-level Multiplexing and out-of-order frame reassembly for maximum link utilization. End-to-end data protection with hardware parity, CRC, ECC and other advanced error checking and correcting algorithms ensure data is safe from corruption.

8Gb/s Fibre Channel

Vezzanine Card Host Bus Adapte for the HP BladeSystem c-Class

- Full integrated support with HP Virtual Connect and HBAnyware enables blade server customers to benefit from SAN-wide server and storage management capabilities.
- Detailed real-time event logging and tracing enables quick diagnosis of SAN problems.
- Boot from SAN capability reduces system management costs and maximize network uptime.
- BlockGuard ready: ensures end-to-end data integrity

Agency Approvals

North America:

- FCC Class A
- UL/CSA Recognized

Europe:

- CE Mark
- EU RoHS compliant
- TUV Bauart Certified

Japan:

- VCCI Class A
- Taiwan:
- BSMI Class A

Korea:

- MSIP (formally KCC/MIC) Class A

China:

- China RoHS Compliant

(Please refer to the product page on

www.emulex.com for further details)

Ordering Information

 For ordering information on the Emulex-based Fibre Channel Mezzanine Card, visit: www.hp.com/go/bladesystem





www.emulex.com

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