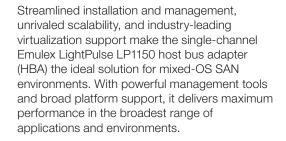
DATASHEET CONNECTIVITY

EMULEX

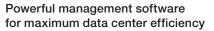
LightPulse®

4Gb/s Fibre Channel PCI-X 2.0 Host Bus Adapters

UNPARALLELED
MANAGEABILITY,
RELIABILITY,
PERFORMANCE
AND EASE OF
DEPLOYMENT







The Emulex HBAnyware enterprise-class management application has gained broad market acceptance with over 6 million Fibre Channel and FCoE ports managed to date. Building on the success of the HBAnyware application, Emulex has released OneCommand Manager. OneCommand Manager's multi-protocol, cross platform architecture, provides centralized management of Emulex adapters within the enterprise data center. OneCommand Manager streamlines IT administrative tasks by delivering uniform management across heterogeneous data center environments. With OneCommand Manager, IT administrators can increase management efficiency and flexibility by improving responsiveness to dynamic business environments. To ensure a transparent transition for customers who are using Emulex's existing HBAnyware management solution, OneCommand Manager is backward compatible with HBAnyware 4.1.



Key Benefits

- Superior quality and reliability ensure data availability
- Highly efficient installation accelerates deployment and reduces administration costs
- Maximum SAN performance increases scalability and user satisfaction
- Robust interoperability simplifies deployment and upgrades of SAN hardware and software
- LightPulse Virtual HBA technology provides efficient host utilization and compliance with SAN management best practices
- Advanced security protects the SAN from potential threats such as WWN spoofing, host masquerading, rogue/compromised servers and administrator errors

Key Features

- Exceptional performance and full-duplex data throughput
- Comprehensive virtualization capabilities with support for N_Port ID Virtualization (NPIV)
- Simplified installation and configuration using common HBA drivers and AutoPilot Installer®
- Efficient administration via Emulex OneCommand™ Manager for HBAs on local and remote SANs
- Common driver model eases management and enables upgrades independent of HBA firmware

LightPulse® LP1150 4Gb/s Fibre Channel PCI-X 2.0 Host Bus Adapters

SPECIFICATIONS

Standards

- · ANSI Fibre Channel: FC-PH-3, FC-PI-2, FC-FS, FC-AL-2, FC-GS-4, FC-FLA, FC-PLDA, FC-SP, FC-TAPE, FCP-2, and RFC 2625 (IP over FC)
- · PCI-X 2.0 and PCI 3.0
- · Fibre Channel class 2 and 3
- · PHP hot plug hot swap

Architecture

- · Single-channel
- · 4Gb/s, 2Gb/s or 1Gb/s FC Link speeds automatically detected
- · Integrated data buffer and code space memory

Comprehensive OS Support

- · Windows, Linux, NetWare, VMware hardware environments
- · x86, x64 and Intel® Itanium® processor family
- · 32/64-bit 33/66MHz PCI (3.3V signaling)
- · 66/100/133/266MHz PCI-X bus speeds

Optical

- · Data rates: 1.0625, 2.125 and 4.25Gb/s (auto-detected)
- · Optics: Short wave lasers with LC type connector
- 50/125µm, up to 150 meters at 4Gb/s
- 62.5/125µm, up to 70 meters at 4Gb/s

Physical Dimensions

· Short, low profile MD2 form factor card 167.64mm x 64.42mm (6.60" x 2.54") Standard bracket (low profile available)

Power & Environmental Requirements

- · Volts: +3.3 and +5 VDC
- · Operating temperature: 0° to 55° C (32° to 131° F)
- · Airflow required: 100 lf/m
- · Storage temperature: -40° to 70° C (-40° to 158° F)
- · Relative humidity: 5% to 95% non-condensing

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

- · LP1150-F4
- Single-channel, embedded multi-mode optic interface

Additional Features

- · Performance features
- Emulex LightPulse technology features Frame-level Multiplexing and out-of-order frame reassembly for maximum link utilization.

Data protection features

- End-to-end data protection with hardware parity, CRC, ECC and other advanced error checking ensure that data is safe from corruption.
- · Deployment and management features
- Detailed real-time event logging and tracing enables quick diagnosis of SAN problems.
- Universal Boot capability allows the appropriate boot environment to be automatically selected for any given OS.
- Strong authentication between host and fabric is based on full Fibre Channel Security Protocol (FC-SP) Diffie-Helmann Challenge Handshake Authentication Protocol (DH-CHAP) compliance.

Management Features

- · The Emulex AutoPilot Installer automates the HBA installation process and significantly reduces time to deployment and administrative costs. Automated installation and configuration of driver and management tools simplifies deployment of multiple adapters within Windows environments. A single installation of driver and management application eliminates multiple reboots and ensures that each component is installed correctly and the HBA is ready to use.
- The Emulex OneCommand™ Manager application enables centralized discovery, monitoring, reporting, and administration of Emulex HBAs and UCNAs on local and remote hosts. Powerful automation capabilities facilitate remote driver parameter, firmware and boot code upgrades. Advanced diagnostic features such as adapter port beaconing and adapter statistics help to optimize management and network performance while the environmental monitoring feature helps to maintain optimum host to fabric connections. 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
- · Emulex's management instrumentation complies to Open Management Standards, such as SMI-S and common HBA API support, which enables seamless upward integration into enterprise storage and server management solutions.



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