

IDEAL FOR THE CUSTOMERS LOOKING FOR REAL WORLD SOLUTIONS

Is your customer looking for:

- World Record Transaction Processing Power
- Maximum Bandwidth Performance
- Interoperability: Widely tested and approved, #1 HBA in the industry
- Robust Features: Large Data Buffer, Large Context Info Cache, CPU Offload
- Ease of SAN Management: Firmware Upgradeable, Driver Compatibility, High-Availability

LightPulse™ 2Gb/s Fibre Channel Host Bus Adapters Qualified by

Hitachi Data Systems

WHAT'S NEW

- HDS qualifies the **LP1050-F2, P10000-M2** and **LP10000DC-M2**
- Emulex **LP10000DC** achieves Solaris Ready certification
- Emulex teams with ApplQ with HBA support for SMI-S
- Emulex announces support for Intel 64-bit Extension technology
- Emulex achieves certification for use with Red Hat Enterprise Linux platforms

HIGHLIGHTS

Emulex is the world's #1 HBA supplier – an installed base of nearly 2 million FC HBAs

OS coverage – driver support for Solaris, Windows, Linux, HP-UX ("Certified for HP-UX") and NetWare

High performance PCI-X , PCI , SBus and cPCI HBAs – Support across HDS' complete storage product line

Enterprise, mid-range and SMB HBAs – Complete and uncompromising solutions to meet the needs of all customers

Highest availability among FC HBAs – Industry leading reliability and availability contributing to lower TCO and increased ROI (IDC)*

KEY EMULEX PRODUCT ADVANTAGES

Dedicated on-board processor facilitates high performance while minimizing server CPU utilization

Largest on-board memory, combined with a dedicated on-board processor, provides unsurpassed performance, flexibility, and scalability in complex SANs

Driver compatibility across all generations and bus architectures (PCI-X, PCI, SBus and cPCI) reducing SAN management configurations

Driver independent firmware upgrades allow installed base of Emulex HBAs to be updated, without reboots, protecting investment by preventing technical obsolescence

Enhanced centralized SAN management through Emulex exclusive, driver-based software frameworks*

**(visit www.emulex.com/whitepapers for more information)*

PCI-X
LP1050
LP10000
LP10000DC
LP9802
LP982
LP9802DC

PCI
LP9002L
LP9002DC









SBus
LP9002S

cPCI
LP9002C

www.emulex.com

HDS Qualified 2 Gb/s Fibre Channel Host Bus Adapters (HBAs)

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Part Number	Bus/Link Speed	GA Release Date	Key Specifications	Key Positioning
 LP1050	Single-Channel PCI-X 2Gb/1Gb	Jul-05	<ul style="list-style-type: none"> ARM9 microprocessor Concurrent exchanges: 1024 Buffer-to-Buffer Credits: 16 Low-profile Quad data rate GRAM 	High-performance low-cost, HBA for 9500 series
 LP10000DC	Dual-Channel PCI-X 2Gb/1Gb	Aug-04	<ul style="list-style-type: none"> ARM9 microprocessor Bridgeless Dual-channel ASIC Concurrent exchanges: 2048 Buffer-to-Buffer Credits: 64 Low-profile Quad data rate SRAM 	High-performance 6th generation HBA including dual-channel ASIC and support for digital diagnostics interface
 LP10000	Single-Channel PCI-X 2Gb/1Gb	Aug-04	<ul style="list-style-type: none"> ARM9 microprocessor Concurrent exchanges: 2048 Buffer-to-Buffer Credits: 64 Low-profile Quad data rate GRAM 	High-performance 6th generation HBA with support for digital diagnostics interface
 LP9802	Single-Channel PCI-X 2Gb/1Gb	Jul-02	<ul style="list-style-type: none"> Concurrent Exchanges: 2048 Buffer-to-Buffer Credits: 64 Low-profile 266MIPS onboard process 66/100/133 Mhz 	High-performance low-profile PCI-X for the most demanding mixed O/S SANs
 LP982	Single-Channel PCI-X 2Gb/1Gb	Aug-02	<ul style="list-style-type: none"> Concurrent Exchanges: 1024 Buffer-to-Buffer Credits: 16 Low-profile 266MIPS onboard process 66/100/133 Mhz 	Low-profile mid-range PCI-X for high volume environments
 LP9002DC	Dual-Channel PCI 2Gb/1Gb	Sep-01	<ul style="list-style-type: none"> Concurrent Exchanges: 2048 Buffer-to-Buffer Credits: 64 266MIPS onboard process 66/33 Mhz 	High-performance dual-channel PCI
 LP9002L	Single-Channel PCI 2Gb/1Gb	Apr-01	<ul style="list-style-type: none"> Concurrent Exchanges: 2048 Buffer-to-Buffer Credits: 64 Low-profile 266MIPS onboard process 66/33 Mhz 	High-performance low-profile PCI for the most demanding mixed O/S SANs
 LP9002S	Single-Channel SBus 2Gb/1Gb	Jul-01	<ul style="list-style-type: none"> Concurrent Exchanges: 1024 Buffer-to-Buffer Credits: 16 266MIPS onboard process 25 Mhz 	High-performance SBus to match existing 2Gb SAN infrastructure (switches, storage, etc)

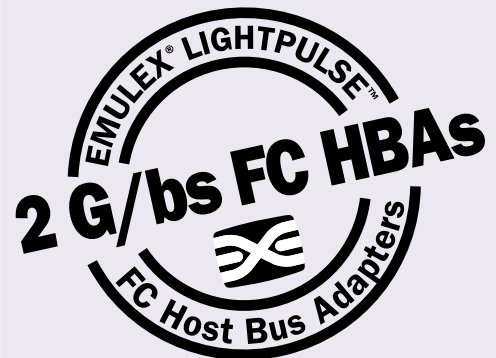
WHY EMULEX!

- Leading supplier of Fibre Channel HBAs to HDS and the Industry
 - Installed base approaching 2 million
 - Mature and stable technology
 - Most design wins with top-tier OEMs
- Driver independent firmware upgrades
 - Upgrades without reboot; no disruption to service
 - Protect hardware investment
 - Avoid technical obsolescence
- Driver compatibility
 - Across all HBA generations
 - Across multiple bus architectures (PCI-X, PCI, SBus, cPCI)

EMULEX ADVANTAGES:

- Strong Partnerships
 - Brocade Strategic Alliance partner and Fabric Aware partner
 - McData OpenReady partner
 - Exclusive FC HBA in MSA (Microsoft System Architecture)
 - Intel validation on 32 and 64 bit systems
 - Sun Solaris Ready certified
 - Certified for HP-UX
- Emulex HBA Honored with a Best "Products of the Year" Award by Storage Magazine and Searchstorage.com

"The Emulex LP9802 has upped the ante by stuffing a lot of neat features into its PCI-X HBA... Emulex's HBAware driver technology provides the ability to upgrade HBA firmware anywhere in a Fibre Channel or iSCSI SAN from a single console."



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Note: Please refer to the HDS HiFIRE (or your HDS representative) for complete details.

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