

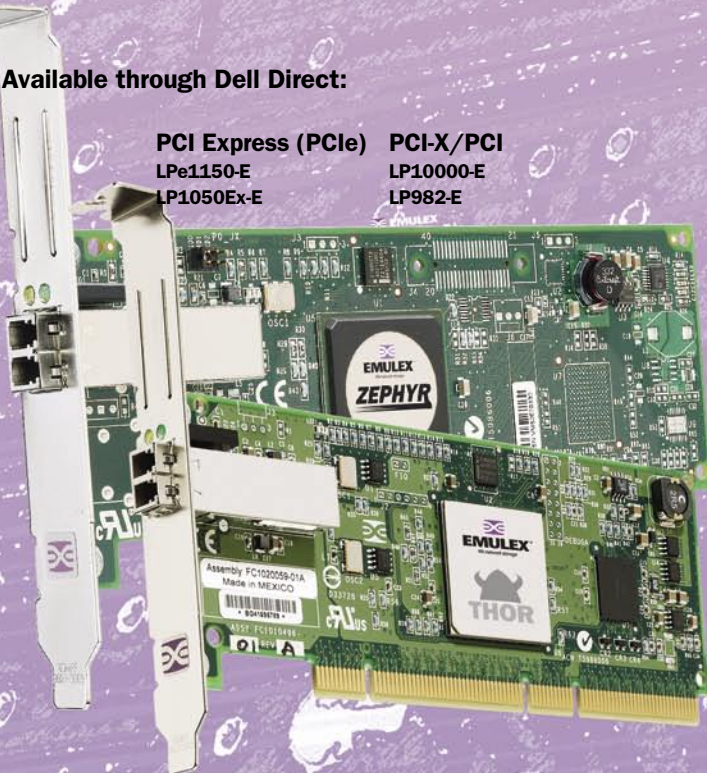
AWARD-WINNING CONNECTIVITY SOLUTIONS IDEAL FOR CUSTOMERS DEMANDING:

- Record Setting Transaction Processing Power
- Maximum Bandwidth Performance
- Industry Leading Interoperability: Widely tested and approved
- Robust Features: Large data buffer, large context info cache, CPU Offload
- Ease of SAN Management: Firmware upgradeable, hardware independent, driver compatibility across generations

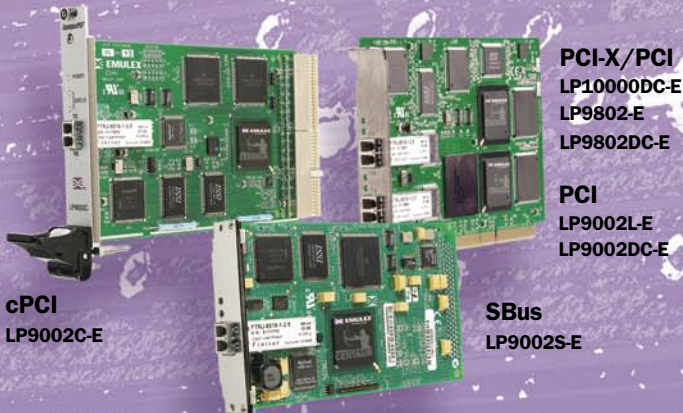
Available through Dell Direct:

PCI Express (PCIe)
 LPe1150-E
 LP1050Ex-E

PCI-X/PCI
 LP10000-E
 LP982-E



Available through Dell S & P:



PCI-X/PCI
 LP10000DC-E
 LP9802-E
 LP9802DC-E

PCI
 LP9002L-E
 LP9002DC-E

cPCI
 LP9002C-E

SBus
 LP9002S-E

Emulex®

Fibre Channel

Host Bus Adapters

Dell offers certified Emulex HBAs across a broad range of Dell|EMC systems and storage and tape backup products for mid-range and enterprise configurations in Windows, Linux and Solaris environments. Emulex's unique architecture enables superior performance, maximizes CPU offload and is firmware upgradeable for the best investment protection available.

HIGHLIGHTS

PCI Express (PCIe), PCI-X/PCI, cPCI and SBus HBAs – Supported in all environments including clustering, tape and database applications

- **Mid-range and high-end HBAs –** For superior price-performance mix with unmatched features
- **Unique Firmware based architecture –** FC Protocol is under firmware control, enabling new features to be added and ensuring up-to-date compliance with industry standards with a simple update
- **Largest on-board memory –** Provides unsurpassed performance, flexibility, and scalability in complex SAN environments
- **Driver compatibility across all HBA generations –** Simplifies management by allowing a single driver image to be deployed throughout a SAN

KEY EMULEX ADVANTAGES

Backward compatible drivers simplify SAN management. Driver independent firmware upgrades allow installed HBAs to be updated, without disruption to the driver and software, protecting investment by preventing technical obsolescence. No system reboot required for most upgrades and configuration changes, enabling the highest levels of availability by minimizing planned downtime. EMC Qualified with Navisphere, Control Center and PowerPath for management and high-availability. Emulex HBAs – Chosen for industry-leading performance in world-class benchmarks, in both high transaction processing and data streaming backup & recovery applications. See CA's BrightStor Enterprise Backup, Microsoft SQL Server 2000, EMC Enterprise Data Center and Internet Data Center Prescriptive Architecture Guide.

4Gb/s and 2Gb/s Fibre Channel Host Bus Adapters (HBAs)

Emulex® Fibre Channel Host Bus Adapters

Dell Model#					Available through Dell S&P
System Bus	PCIe 1.0a	PCIe to PCI/PCI-X 1.0 PCIe 1.0a	PCI-X 1.0a PCI 2.3	PCI-X 1.0a PCI 2.3	
Link Speed	4Gb/s	2Gb/s	2Gb/s	2Gb/s	
Operating System	Windows Server 2003 Windows 2000 Linux	Windows Server 2003 Windows 2000 Windows NT Linux	Windows Server 2003 Windows 2000 Windows NT Linux Solaris	Windows Server 2003 Windows 2000 Windows NT Linux	
Certifications	Dell PowerEdge DELL/EMC Array CX300, 500, 700 FC4700 FC4500				
Additional Features	Single Port up to 100,000 I/Os per second Firmware upgradeable architecture	Single Port 1024 Concurrent Exchanges (XRI) 16 Buffer to Buffer Credits	Single Port 2048 Concurrent Exchanges (XRI) 64 Buffer to Buffer Credits Auto speed negotiation Auto topology detection FC Tape support	Single Port 1024 Concurrent Exchanges (XRI) 16 Buffer to Buffer Credits	

* EMC Support Matrix Cross Reference

WHY EMULEX!

- Certified with broad range of Dell | EMC systems, storage and tape libraries
- EMC Interoperability Support Matrix qualified for all environments
 - Approved for Server and Cluster applications
- Certified with EMC High Availability and Management Software
 - Navisphere, ECC, PowerPath
- Unique firmware based architecture
 - Protects hardware investment
 - Avoids technical obsolescence
 - Allows upgrades without reboots
 - Minimizes system downtime for maintenance and upgrades
- Largest on-board memory support
- Largest number of open exchanges (XRI) and continuous data flow (buffer to buffer credits)
- OS Driver compatibility across all HBA generations

EMULEX HBA ADVANTAGES:

- Strong partnership with industry leaders
 - Brocade Strategic Alliance partner and Fabric Aware partner
 - McData OpenReady partner
 - Exclusive FC HBA in MSA (Microsoft System Architecture)
 - EMC and Dell joint build outs of EDC* and IDC* MSAs (called PAG*)
 - Intel validation on 32 and 64 bit systems
- * EDC: Enterprise Data Center * IDC: Internet Data Center * PAG: Prescriptive Architecture Guide