



Product Bulletin:

Emulex 8Gb HBA – LPe12000 / LPe12002

Revision History

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

1. Summary
2. What's New?
3. Sales Tools
4. Customer-Ready Tools
5. System Requirements
6. Product Information
7. Regulatory Compliance
8. Warranty and Service
9. Additional Information

1. Summary

This product bulletin announces the availability of the Emulex LPe12000 family of 8Gb Fibre Channel Enterprise HBAs.

The Emulex LPe12000 is a single port, 8Gb host bus adapter (HBA) targeted at enterprise, mixed-OS, and virtual-server environments. The LPe12000 is a dual port option. These offerings represent the latest technology from Emulex and are another component in NetApp's broad SAN arsenal.

2. What's New?

With the increased bandwidth demands of today's data centers, the Emulex LPe12000 family of HBA enables customers to transition from 4Gb to 8Gb Fibre Channel. Key features of the LPe12000 and 12002 HBAs include:

- Support for Message Signaled Interrupts eXtended (MSI-X), improves host utilization and

enhances application performance

- Support for 8Gb/sec, 4Gb/sec, and 2Gb/sec Fibre Channel devices
- Comprehensive virtualization capabilities with support for N-Port ID Virtualization (NPIV) and Virtual Fabric
- Host to Fabric FC-SP authentication
- BlockGuard® ready—ensures end-to-end data integrity
- Common driver model allows a single driver to support all Emulex HBAs on a given OS
- Easy deployment of new firmware with minimal server reboots
- Efficient centralized administration of Emulex HBAs via powerful management tools

3. Sales Tools (Sales Guides, Training Presentations, SE Presentations)

N/A

4. Customer-Ready Tools (Customer Presentations, Datasheets)

N/A

5. System Requirements

See the NetApp Interoperability Matrix [here](#) for the latest support and configuration information.

6. Product Information

Emulex 8Gb HBA – LPe12000, LPe12002

Part Number	Description	Discount Category
X1096A-R6	Emulex LPe12000,1-Port,8Gb,PCIe,R6	C
X1097A-R6	Emulex LPe12002,2-Port,8Gb,PCIe,R6	C

ST ANDARDS

- ANSI Fibre Channel: FC-P1-4, 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
- PCI Express card electromechanical spec 2.0
- Fibre Channel class 2 and 3
- PHP hot plug-hot swap

ARCHITECTURE

- Single channel (LPe12000) or dual channel (LPe12002)
- 8Gb/sec, 4Gb/sec, or 2Gb/sec FC link speeds automatically detected
- Integrated data buffer and code space memory

COMPREHENSIVE OS SUPPORT

- See the Interoperability Matrix for the latest support and configuration data – [Link here](#)

HARDWARE ENVIRONMENTS

- PowerPC®, SPARC®, x86, x64, and Intel® Itanium® 64-bit processor family

OPTICAL

- **Data rates:** 2.125, 4.25, and 8.5Gb/sec (auto-detected)
- **Optics:** Short wave lasers with LC type connector
- **Cable:** Operating at 8Gb/sec, 50/125µm (500MHz*km BW)—up to 50m 50/125µm (2000MHz*km BW)—up to 150m

PHYSICAL DIMENSIONS

- Short, low-profile MD2 form factor card 167.64mm x 68.91mm (6.60" x 2.71")
- PCIe x8 physical connector

POWER AND ENVIRONMENTAL REQUIREMENTS

- Volts: +3.3, +12
- Operating temperature: 0° to 55°C (32° to 131°F)
- Airflow required: 150 lf/m'
- Storage temperature: -40° to 70°C (-40° to 158°F)
- Relative humidity: 5% to 95%, noncondensing
- 23° C wet bulb

7. Regulatory Compliance

The Emulex LPe12000 and LPe12002 meet all defined NetApp EMI and RoHS compliance requirements.

8. Warranty and Service

The Emulex LPe12000 family of HBAs offers a three-year warranty.

Service for the Emulex LPe 12000 and 12002 HBAs will be handled in the same manner as the existing Emulex products sold today, which is RMA via depot-based sparing.

Contact Information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.

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