

Emulex LPe31002 Datasheet



Emulex LPe31002 Gen 6 16GFC Dual-port FC Host Bus Adapter

LPe31002

The Emulex LPe31002 Gen 6 (16/32G) Fibre Channel (FC) Host Bus Adapters (HBAs) by Broadcom are designed to address the demanding performance, reliability and management requirements of modern networked storage systems that utilize high performance and low latency solid state storage drives and hard disk drive arrays.

Fibre Channel is known as the gold standard for network storage connectivity in enterprise and cloud deployments. The latest Emulex Gen 6 FC HBAs with Dynamic Multi-core architecture offer higher performance, lower latency, enhanced diagnostics and manageability that benefit both 16GFC and 32GFC environments.

The unique Emulex Dynamic Multi-core architecture delivers unparalleled performance and more efficient port utilization than other HBAs by applying all ASIC resources to any port that needs it. Compared to the previous generation, Emulex Gen 6 HBAs deliver 2x greater bandwidth - 12,800MBps (2 ports 32GFC, or 4 ports 16GFC, full duplex), less than half the latency, and support an industry-leading 1.6 million IOPS per adapter. The quad-port LPe32004 delivers up to 3.2 million IOPS per adapter.

The adapters are NVMe over Fabrics-enabled, delivering an additional 55% lower latency than SCSI, and support NVMe

over Fabrics and SCSI concurrently.

Emulex LPe31000-series HBAs are available with single, dual or quad 16GFC optics that can be upgraded with 32GFC optics later to utilize the full performance of Gen 6 FC technology. A second quad-port 16GFC model is available that features a low-profile design. It provides the highest port density within a low-profile form factor (optics are not upgradeable).

Specifications

- Lifecycle: Active
- Distributor Inventory: Yes
- ECD Cable Support: 100m at 32Gb on 50/125 µm OM4 MMF, 20m at 32Gb on 50/125 µm OM2 MMF, 70m at 32Gb on 50/125 µm OM3 MMF, Operating at 32Gb
- OS Support: Additional support is available from OEMs and partners, Oracle Solaris, SUSE® Linux Enterprise Server, VMware vSphere
- Generation: Gen 6 (32/16GFC)
- Hardware Environment: PowerPC, SPARC, Intel x86, x64
- Host Bus Type: PCIe Gen3 x8
- Industry Standards: Current ANSI/IETF Standards: FC-PI-4, FC-DA, FC-DA-2, FC-FS, FC-GS-6, FC-LS-2, FC-PH-2, FC-PH-3, FC-PI, FC-PI-2, FC-PI-5, FCP-4, Fibre Channel class 3, Legacy ANSI/IETF standards: FC-PH, PCIe base spec 3.0, PCIe card electromechanical spec 3.0, PHP hot plug-hot swap, SBC-3, SPC-4, SSC-4
- I/O Controller: XE501
- Operating Humidity: 5% to 95% non-condensing
- Optical Data Rates: 16GFC (14.025 GBaud NRZ), 8GFC (8.5 GBaud NRZ), 4GFC (4.25 GBaud NRZ), automatically detected
- Optics: Optics Short wave lasers with LC type connector optics
- Ordering Part #: LPe31002-M6 - 2 Port 16GFC Short Wave Optical – LC SFP+
- Physical Dimensions: Short, low profile PCIe card, 167.64mm x 68.91mm (6.60" x 2.71"), Standard bracket (low profile bracket ships in box)
- Ports: 2

- Regulatory Certifications: Australia(RCM), Japan(VCCI Class A), China(China RoHS Compliant), Europe(CE Mark, EU RoHS compliant,TUV Bauart Certified), Korea(MSIP[formerly KCC/MIC]Class A), Taiwan(BSMI Class A)
- Storage Temperature: -20° to 85°C (-4° to 185°F)
- Whats in the box. Each box includes:
 - Quantity 1, low-profile Host Bus Adapter with optic/s
 - Quantity 1, standard bracket (installed)
 - Quantity 1, low-profile bracket

For more specifications of this LPe31002, please visit below Broadcom website:

<https://www.broadcom.com/products/storage/fibre-channel-host-bus-adapters/lpe31002-m6>

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