Fsas Technologies
a Fujitsu company

# Data Sheet
## PFC EP Emulex LPe35000 / LPe35002 Fibre Channel Adapters

Dual- and single-port 32 Gbit PCIe 4.0 Host Bus Adapters by Broadcom

Fibre Channel Host Bus Adapters (HBA) enable data exchange over large distances and extend your existing server systems by including communication interfaces using high-speed communication technology. All connections are redundant and hot-pluggable.
The combination of hardware and software exemplifies the high-performance quality of communication.
The number of system restarts is reduced thanks to optimized software and extended error check functions help improve the integrity of your company's information.

### PFC EP Emulex LPe35000 / LPe35002 Fibre Channel Adapters

The Emulex Gen 6 32 Gb Fibre Channel (FC) Host Bus Adapters (HBA) by Broadcom for PRIMERGY and PRIMEQUEST server systems are optimal Fibre Channel HBAs for virtualized, cloud and mission critical deployments. The PFC EP Emulex Gen 6 Fibre Channel HBAs LPe35000/35002 by Broadcom take performance to a new level with PCIe 4.0 support, data integrity capabilities and cloud scale reliability, and ease of use. Organizations looking to improve performance, protect against data corruption, and simplify operations of FC SANs in cloud or high performance environments can benefit from deploying the PFC EP LPe35000/35002.

The single and dual port FC HABs feature the Emulex bullet-proof driver stack built on a heritage reaching back to the first generation Fibre Channel adapters resulting in rock-solid reliability in 32Gb/s, 16Gb/s and 8Gb/s environments. With over 5 million IOPS on a single port, they are ideally suited for Fibre Channel connectivity to flash storage arrays.

Compared to the previous generation, Emulex Gen 6 HBAs deliver 2x greater bandwidth—12,800MBps (2 ports 32G, full duplex), less than half the latency, and support an industry-leading 5 million IOPS on a single port, ensuring SLAs are met.

# Features & Benefits

| Main Features | Benefits |
|---|---|
| Scalable bandwidth<br>■ Faster Flash. Better Virtualization. Lossless Networking | ■ Emulex Gen 6 FC HBAs 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 for caching and persistent storage as well as hard disk drive arrays. |
| High performance throughput<br>■ Accelerate | ■ 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. |
| Reliability and guaranteed network performance<br>■ Protect | ■ Emulex Gen 6 FC HBAs deliver enhanced security via the new secure firmware update feature which protects and ensures the authenticity of device firmware. |
| Streamlined management<br>■ Enterprise-class management | ■ The flagship OneCommand® Manager enterprise-class management application features a multiprotocol, cross-platform architecture that provides centralized management of all current and previous generations of Emulex FC HBAs. This enables IT administrators to manage network connectivity with one tool for maximum efficiency. |

# Technical details

| Technical details | |
|---|---|
| Controller Silicon | Emulex XE601 |
| Controller type | Fibre Channel Host Bus Adapter |
| Connector type | LC-style |
| Number of ports | 1 |
| | 2 |
| Auto Negotiation support | Yes |
| Bus transfer rate | 16GT/s |
| LEDs | 2 LEDs per port (yellow and green) |
| Standards | Current ANSI/IETF Standards: FC-PI-7; FC-FS-5; FC-LS-3; FC-GS-7; FC-PI-5; FC-PI-6; FC-DA; FC-DA-2; FCP-4; SPC-4; SBC-3; SSC-4; FC-NVMe; FC-NVMe/AM1<br>• Legacy ANSI/IETF Standards: FC-PI-4; FC-FS-3; FC-FS-4; FC-LS-2; FC-GS-6; FC-PH; FC-PH-2; FC-PH-3; FC-PI; FCPI-2; FC-PI-3; FC-FS; FC-GS-2/3/4/5; FCP-2/3; FC-HBA; FC-TAPE; FC-MI; SPC-3; SBC-2; SSC-2; SSC-3<br>• PCIe base spec 4.0<br>• PCIe card electromechanical spec 4.0<br>• Fibre Channel Class 3<br>• PHP hot plug-hot swap |
| Technology | Optics: 32 Gb/s short wave lasers with LC type connectors.<br>Data rates: 28.05 Gb/s (32GFC); 14.025 Gb/s (16GFC); 8.5 Gb/s (8GFC); automatically negotiated |
| Fibre Channel interface | MMF |

| Order code | Product name (vendor) | Height of bracket | Number of ports | Related product |
|---|---|---|---|---|
| PYBFC421L | LPE35000-M2-F | Low Profile (LP) | 1 | PRIMERGY Server |
| PYBFC421 | LPE35000-M2-F | Full Height (FH) | 1 | PRIMERGY Server |
| PYBFC422L | LPE35002-M2-F | Low Profile (LP) | 2 | PRIMERGY Server |
| PYBFC422 | LPE35002-M2-F | Full Height (FH) | 2 | PRIMERGY Server |
| PY-FC421 | LPE35000-M2-F | Full Height / Low Profile | 1 | PRIMERGY Server |
| PY-FC422 | LPE35002-M2-F | Full Height / Low Profile | 2 | PRIMERGY Server |

| Environment | |
|---|---|
| Temperature (operating) | 0 - 55 °C |
| Storage temperature | -40 - 85 °C |

| Compliance | |
|---|---|
| Compliance Notes | According to the corresponding system |
| Compliance Link | https://sp.ts.fujitsu.com/sites/certificates |

| Notes | |
|---|---|
| Compatibility | If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing. |
| Performance | To the extent that specific performance specifications for the product are indicated in the product data sheet, these are usually also dependent on the specific use and workload of the product and may therefore not be reached equally in all application situations. Such performance specifications thus do not represent a specifically agreed characteristic or feature of the product, but only serves as an orientation. The responsibility for a sufficient sizing of the overall system functionality lies solely with the user. |

# More information

## Fsas Technologies products, solutions & services

In addition to PFC EP Emulex LPe35000 / LPe35002 Fibre Channel Adapters, Fsas Technologies provides a range of platform solutions. They combine reliable Fsas Technologies products with the best in services, know-how and worldwide partnerships.

Fsas Technologies Portfolio
Built on industry standards, Fsas Technologies offers a full portfolio of datacenter hardware, software and related services. This allows customers to select alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Data Center Solutions
https://eu.fsastech.com/eu/

## More information

Learn more about PFC EP Emulex LPe35000 / LPe35002 Fibre Channel Adapters, please contact your Fsas Technologies sales representative or Business partner, or visit our website.
https://eu.fsastech.com/eu/primergy

## Fsas Technologies sustainability policy

Our product portfolio is developed with a commitment to environmental responsibility. For detailed product environmental information, please visit: https://eu.fsastech.com/eu/about-us/sustainability/

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## Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.
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