

Data Sheet

FUJITSU PFC EP Emulex LPe31000 / LPe31002 Fibre Channel Adapters

Dual- and single-port 16 Gbit PCle 3.0 Host Bus Adapters by Broadcom

Fibre Channel Host Bus Adapters (HBA) enable data exchange over large distances and extend your existing FUJITSU 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 LPe31000 / LPe31002 Fibre Channel Adapters

The Emulex Gen 6 16 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 LPe31000/31002 by Broadcom take performance to a new level with PCle 3.0 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 LPe31000/31002.

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 16Gb/s, 8Gb/s and 4Gb/s environments. With over 1.6 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— 6,400MBps (2 ports 16G, full duplex), less than half the latency, and support an industry-leading 1.6 million IOPS on a single port, ensuring SLAs are met.



Main Features

Scalable bandwidth

■ Faster Flash. Better Virtualization.

High performance throughput

■ Accelerate

Reliability and guaranteed network performance

■ Protect

Low latency

■ Reduce latency

Manage network connectivity with one tool

Control

Benefits

- Designed to address the demanding performance of modern networked storage systems
- Delivers unparalleled performance and more efficient port utilization by applying all ASIC resources to any port that needs it
- Enhanced security via the new secure firmware update feature which protects and ensures the authenticity of device firmware
- Utilize high performance and low latency solid state storage drives for caching and persistent storage as well as hard disk drive arrays
- 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

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Technical details

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Controller Silicon	Emulex XE501			
Controller type	Fibre Channel Host Bus Adapter			
Connector type	LC-style			
Number of ports	1			
	2			
Auto Negotiation support	Yes			
Bus interface	PCIe 3.0 x8			
Bus transfer rate	8GT/s			
LEDs	2 LEDs per port (yellow and green)			
Standards	 Current ANSI/IETF Standards: FC-PI-4; FC-PI-5; FC-PI-6; FC-FS-3; FC-LS-2; FC-GS-6; FC-DA; FC-DA2: FCP-4; SPC-4; SBC-3; SSC-3; SSC-4 Legacy ANSI/IETF standards: FC-PH; FC-PH-2; FC-PH-3; FC-PI; FC-PI-2; FC-FS; FC-GS-2/3/4/5; FCP-2/3; FC-HBA; FC-TAPE; FC-MI; SPC-3; SBC-2; SSC-3 PCle base spec 3.0 PCle card electromechanical spec 3.0 Fibre Channel Class 3 PHP hot plug-hot swap 			
Technology	Optics: 16 Gb/s short wave lasers with LC type connectors. Data rates: 14.025 Gb/s (16GFC); 8.5 Gb/s (8GFC); 4.25 Gb/s (4GFC) automatically negotiated			
Supported cable length	Operating at 16Gb - OM4 (Multi-Mode 50/125µm, 4700 - OM3 (Multi-Mode 50/125µm, 2000 - OM2 (Multi-Mode 50/125µm, 5000 Operating at 8Gb - OM4 (Multi-Mode 50/125µm, 47000 - OM3 (Multi-Mode 50/125µm, 20000 - OM2 (Multi-Mode 50/125µm, 50000	0 MHz*km) 100m MHz*km) 35m 0 MHz*km) 190m 0 MHz*km) 150m		
FC Controller notes	the controller is equivalent to the original Emulex HBA LPe31000-Series			
Fibre Channel interface	MMF			
Order code	Product name (vendor)	Height of bracket	Number of ports	Related product
S26361-F5596-E1	LPe31000-M6-F	Full Height (FH)	1	PRIMERGY Server
S26361-F5596-E201	LPe31000-M6-F	Low Profile (LP)	1	PRIMERGY Server
S26361-F5596-E202	LPe31002-M6-F	Low Profile (LP)	2	PRIMERGY Server
S26361-F5596-E2	LPe31002-M6-F	Full Height (FH)	2	PRIMERGY Server
S26361-F5596-L501	LPe31000-M6-F	Full Height / Low Profile	1	PRIMERGY Server
S26361-F5596-L502	LPe31002-M6-F	Full Height / Low Profile	2	PRIMERGY Server
Environment				
Power consumption	single: typical 9.3W; max 11.6 W dual: typical 11.1W; max 13.3 W			
Temperature (operating)	0 - 55 °C			
Storage temperature	-40 - 70 °C			
Compliance				
Compliance notes	According to the corresponding sys	stem		
Compliance link	https://sp.ts.fujitsu.com/sites/certificates			

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More information

Fujitsu products, solutions & services

In addition to Fujitsu with PFC EP Emulex LPe31000 / LPe31002 Fibre Channel Adapters, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products www.fujitsu.com/global/products/ computing/

Software www.fujitsu.com/software/

More information

Learn more about Fujitsu PFC EP Emulex LPe31000 / LPe31002 Fibre Channel Adapters, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/primergy

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT

Please find further information at http://www.fujitsu.com/global/about/environment



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