

Data Sheet

FUJITSU PFC EP Emulex LPe32000 / LPe32002 Fibre Channel Adapters

Dual- and single-port 32 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 LPe32000 / LPe32002 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 LPe32000/32002 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 LPe32000/32002.

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 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— 12,800MBps (2 ports 32G, full duplex), less than half the latency, and support an industry-leading 1.6 million IOPS on a single port, ensuring SLAs are met.



Page 1 / 4 www.fujitsu.com/primergy

Features & Benefits

Benefits
 Designed to address the demanding performance of modern networked storage systems
 Delivers unparalleled performance and more efficient port utilizationby 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

Page 2 / 4 www.fujitsu.com/primergy

Technical details

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Controller Silicon	Emulex XE501				
Controller type	Fibre Channel Host Bus Adapter	Fibre Channel Host Bus Adapter			
Connector type	LC-style	LC-style			
Number of ports	2	·			
Data transfer rate(s)	8 Gbit/s; 16 Gbit/s; 32 Gbit/s	8 Gbit/s; 16 Gbit/s; 32 Gbit/s			
Auto Negotiation support	Yes				
Bus interface	PCle 3.0 x8	PCle 3.0 x8			
Bus transfer rate	8GT/s	8GT/s			
LEDs	2 LEDs per port (yellow and green)	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: 32 Gb/s short wave lasers with LC type connectors. Data rates: 28.05 Gb/s (32GFC); 14.025 Gb/s (16GFC); 8.5 Gb/s (8GFC); automatically negotiated				
Supported cable length	Operating at 32Gb - OM4 (Multi-Mode 50/125μm, 4700 MH - OM3 (Multi-Mode 50/125μm, 2000 MH - OM2 (Multi-Mode 50/125μm, 500 MHz Operating at 16Gb - OM4 (Multi-Mode 50/125μm, 4700 MH - OM3 (Multi-Mode 50/125μm, 2000 MH - OM2 (Multi-Mode 50/125μm, 500 MHz Operating at 8Gb - OM4 (Multi-Mode 50/125μm, 4700 MH - OM3 (Multi-Mode 50/125μm, 2000 MH - OM3 (Multi-Mode 50/125μm, 2000 MH	z*km) 70m *km) 20m z*km) 125m z*km) 100m *km) 35m z*km) 190m z*km) 150m *km) 50m			
FC Controller notes	· · · · · · · · · · · · · · · · · · ·	the controller is equivalent to the original Emulex HBA LPe32000-Series			
Fibre Channel interface	MMF				
Order code	Product name (vendor)	Height of bracket	Number of ports	Related product	
S26361-F4044-E202	LPe32002-M6-F	Low Profile (LP)	2	PRIMERGY Server	
S26361-F4044-E2	LPe32002-M6-F	Full Height (FH)	2	PRIMERGY Server	
S26361-F4044-L502	LPe32002-M6-F	Full Height / Low Profile	2	PRIMERGY Server	
Environment					
Power consumption	LPe32000: typical 9.3W; max 11.6 W LPe32002: typical 11.1W; max 13.3 W				
Temperature (operating)	0 - 55 ℃				
Storage temperature	-40 - 70 °C				
 Compliance					
Compliance notes	According to the corresponding system				
Compliance link	https://sp.ts.fujitsu.com/sites/certificate				

Page 3 / 4 www.fujitsu.com/primergy

More information

Fujitsu products, solutions & services

In addition to Fujitsu with PFC EP Emulex LPe32000 / LPe32002 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 Server PFC EP Emulex LPe32000 / LPe32002 Fibre Channel Adapters, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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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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