

Data Sheet

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 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.



Features & Benefits

Main Features	Benefits
Scalable bandwidth	
■ Faster Flash. Better Virtualization.	 Designed to address the demanding performance of modern networked storage systems
High performance throughput	
■ Accelerate	 Delivers unparalleled performance and more efficient port utilization by applying all ASIC resources to any port that needs it
Reliability and guaranteed network performance	
■ Protect	 Enhanced security via the new secure firmware update feature which protects and ensures the authenticity of device firmware
Low latency	
■ Reduce latency	 Utilize high performance and low latency solid state storage drives for caching and persistent storage as well as hard disk drive arrays
Manage network connectivity with one tool	
■ Control	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 / 5 www.fujitsu.com/primergy

Technical details

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	PCle 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 PCIe base spec 3.0 PCIe 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 MHz*km) - OM3 (Multi-Mode 50/125μm, 2000 MHz*km) - OM2 (Multi-Mode 50/125μm, 500 MHz*km) Operating at 8Gb - OM4 (Multi-Mode 50/125μm, 4700 MHz*km) - OM3 (Multi-Mode 50/125μm, 2000 MHz*km) - OM3 (Multi-Mode 50/125μm, 2000 MHz*km) - OM2 (Multi-Mode 50/125μm, 500 MHz*km) - OM2 (Multi-Mode 50/125μm, 500 MHz*km) - OM2 (Multi-Mode 50/125μm, 500 MHz*km)					
FC Controller notes	the controller is equivalent to the		-Series			
Fibre Channel interface	MMF	<u> </u>				
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 Profi	le 1	PRIMERGY Server		
S26361-F5596-L502	LPe31002-M6-F	Full Height / Low Profi	le 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 ℃					
Storage temperature	-40 - 70 °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 comp component lists and compatibilit applications together with the pr statement and/or commitment o can only be provided after a corre	ry specifications are exhaustive. roduct may but does not necess n the compatibility of such devi	Using deviating or other sparily have to lead to comparating or other system com	ystem components and atibility problems. A final ponents and application.		

Page 3 / 5

Notes

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.

Page 4 / 5 www.fujitsu.com/primergy

More information

Fsas Technologies products, solutions & services

In addition to PFC EP Emulex LPe31000 / LPe31002 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://www.fsastech.com/en-eu/

More information

Learn more about PFC EP Emulex LPe31000 / LPe31002 Fibre Channel Adapters, please contact your Fsas Technologies sales representative or 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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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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