Fsas Technologies
a Fujitsu company

Data Sheet
PFC QLE2690 / QLE2692 Fibre Channel Adapters

QLE2690 single port / QLE2692 dual port 16 Gbit PCIe 3.0 Host Bus Adapters

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 QLE2690 / QLE2692 Fibre Channel Adapters

The enhanced Gen5 16 Gb/s Fibre Channel Host Bus Adapters (HBA) QLE2690 and QLE2692 for the PRIMERGY & PRIMEQUEST servers are ideal for virtualized environments and transaction intensive applications. The adapters support the latest PCIe 3.0 standard for lower cooling and power costs. In addition, QLogic StorFusion technology delivers streamlined provisioning, guaranteed quality of service (QoS), and improved resiliency while addressing the needs of IT organizations that require reliability, integrated management, and guaranteed network performance.

The adapters are backward compatible with existing 4Gb and 8Gb Fibre Channel infrastructure, leveraging existing SAN investments. QLogic's Enhanced Gen 5 solution offers higher per-port performance (~650K IOPS) with low power consumption. The isolated port architecture ensures reliable and consistent performance. QLogics "QConverge Console™" provides a simplified and flexible management oppurtunity, including the support of third-party management tools, like a vCenter™ plugin for VMware®.

Another point of cost reduction is the QLogic's "StarPower™" technology to gain the maximum power efficiency. This feature will ensure that the PCIe host bus link uses the minimal number of PCIe lanes, while continuing to maintain the highest level of Fibre channel performance.

Upto 1.3 million IOPS are optimally prepared for Fibre Channel connectivity to solid state disks (SSDs) and new multi-core processors for best storage application performance in virtualized and non-virtualized deployments.

Features & Benefits

Main Features	Benefits
Scalable bandwidth	
■ Support for 1 or 2 port 16 Gb/s Fibre Channel devices	■ Provide up to high performance 32 Gb/s aggregate bandwidth
High performance throughput	
■ Offers a high performance throughput	■ 16Gbps full-duplex line rate per port (maximum)
Reliability and guaranteed network performance	
■ QLogic StorFusion™ technology	■ Highest level of reliabilty with QLogic StorFusion™ technology
Low latency	
■ Over 1.3 million IOPS	■ Low latency in high transaction intensive applications and virtualized environments
Lowered costs	
■ Using the fewest PCI Express® lanes in PCIe Gen3 environments	■ Decreased power and cooling costs

Technical details

Technical details	
Controller type	Fibre Channel Host Bus Adapter
Connector type	LC-style
Released drivers list link	http://support.ts.fujitsu.com/Download/Index.asp
Number of ports	1
	2
Data transfer rate(s)	4 Gbit/s; 8 Gbit/s; 16 Gbit/s
Auto Negotiation support	Yes
Bus interface	PCIe 3.0 x8
Bus transfer rate	8GT/s
LEDs	3 LEDs per port (amber, green and amber) indecating port speed
Standards	Throughput > 16Gb/sec full-duplex line rate per port Logins > Support for 2048 concurrent logins and 2048 active exchanges Port Virtualization > NPIV (N_Port ID Virtualization) Compliance > SCSI-3 Fibre Channel Protocol (SCSI-FCP) > Fibre Channel Tape (FC-TAPE) Profile > SCSI Fibre Channel Protocol-2 (FCP-2) > Second Generation FC Generic Services (FC-GS-2) and Third Generation FC Generic Services (FC-GS-3)
Technology	Optics: 16 Gb/s short wave lasers with LC type connectors
Data transfer rate up to	16 Gbit/s
Supported cable length	Operating at 16Gb - OM4 (Multi-Mode 50/125µm, 4700 MHz*km) 125m - OM3 (Multi-Mode 50/125µm, 2000 MHz*km) 100m - OM2 (Multi-Mode 50/125µm, 500 MHz*km) 35m Operating at 8Gb - OM4 (Multi-Mode 50/125µm, 4700 MHz*km) 190m - OM3 (Multi-Mode 50/125µm, 2000 MHz*km) 150m - OM2 (Multi-Mode 50/125µm, 500 MHz*km) 50m
FC Controller notes	The controllers are equivalent to the original QLogic 269x series

Order code	Product name (vendor)	Height of bracket	Number of ports	Related product
S26361-F5580-E1	QLE2690	Full Height (FH)	1	PRIMERGY Server
S26361-F5580-E201	QLE2690	Low Profile (LP)	1	PRIMERGY Server
S26361-F5580-E202	QLE2692	Low Profile (LP)	2	PRIMERGY Server
S26361-F5580-E2	QLE2692	Full Height (FH)	2	PRIMERGY Server
S26361-F5580-L501	QLE2690	Full Height / Low Profile	1	PRIMERGY Server
S26361-F5580-L502	QLE2692	Full Height / Low Profile	2	PRIMERGY Server

Environment	
Power consumption	QLE2690 10,7W (max) 8,6W (typ) QLE2692 11,5W (max) 9,3W (typ)
Temperature (operating)	0 - 55 °C
Storage temperature	-20 - 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 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 QLE2690 / QLE2692 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 QLE2690 / QLE2692 Fibre Channel Adapters, please contact your Fsas Technologies sales representative or 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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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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