

# Data Sheet

## Qlogic QLE2560 Fibre Channel Host Bus Adapter

QLE2560 single port 8 Gbit PCI Express 2.0 Host Bus Adapter

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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.

### **QLE2560 Fibre Channel Host Bus Adapter**

The QLE2560 is a PCI Express, single port, Fibre Channel Host Bus Adapter. The HBA offers the next generation 8Gb Fibre Channel technology, meeting the business requirements of the enterprise data center.

A wide range of supported Operating Systems and certifications for storage devices ensure a broad set of application scenarios.

The HBA supplies unrivalled performance by leveraging a single ASIC design and combines a unique hardware architecture to deliver over 200,000 IOPS, a throughput of nearly 1.6 Gb/s, and support for PCI Express x8 bus speeds.



# Features & Benefits

Main Features	Benefits
<ul style="list-style-type: none"> <li>■ Fibre Channel single port 8Gb to PCI Express x8</li> </ul>	<ul style="list-style-type: none"> <li>■ Delivers enhanced security, Quality of Service (QoS), and enables dynamic provisioning. The HBA allows multiple logical (virtual) connections to share the same physical port. Each logical connection has its own resources and the ability to be managed independently.</li> </ul>
<ul style="list-style-type: none"> <li>■ Exceptional performance and data throughput of nearly 1600 MBps (full-duplex); delivers up to 200,000 IOPS</li> </ul>	<ul style="list-style-type: none"> <li>■ The Fibre Channel HBA provides the highest data integrity by ensuring Overlapping Protection Domains (OPD) on both the control and data paths. He also utilizes Enhanced Hardware Assist Firmware Tracing (EHAFT), allowing more comprehensive debugging with standard drivers.</li> </ul>
<ul style="list-style-type: none"> <li>■ StarPower™ technology</li> </ul>	<ul style="list-style-type: none"> <li>■ The Fibre Channel HBA takes advantage of StarPower technology, ensuring power efficiency. The StarPower technology offers dynamic and adaptive power management features such as power and bandwidth optimized intelligent PCI Express link training, low-power switching power supplies, and thermally efficient layout requiring lower airflows.</li> </ul>
<ul style="list-style-type: none"> <li>■ Provides industry-standard application programming interfaces (APIs, FC HBAs)</li> </ul>	<ul style="list-style-type: none"> <li>■ A single common driver per operating system for three generations of FC HBAs (8Gb, 4Gb, and 2Gb) simplifies deployment. The unified driver model (firmware embedded in the driver) eliminates potential interoperability issues between firmware and driver versions. The Adapter API compatibility with 4Gb products accelerates deployment while ensuring application compatibility.</li> </ul>
<ul style="list-style-type: none"> <li>■ Newest technology for existing 4Gb and 2Gb</li> <li>■ SANs</li> </ul>	<ul style="list-style-type: none"> <li>■ The Fibre Channel HBA is backward compatible with 4Gb and 2Gb speeds. Servers with this HBA can be smoothly integrated in existing SANs with 4Gb and also 2Gb FC speed.</li> </ul>

# Technical details

## Technical details

<b>Controller Silicon</b>	Qlogic ISP2532
<b>Controller type</b>	Fibre Channel Host Bus Adapter
<b>Connector type</b>	LC-style
<b>Operating system pre-installed</b>	Information to released operating systems can be found in the server datasheets. Details can be found in the released drivers list on the support portal.
<b>Released drivers list link</b>	<a href="http://support.ts.fujitsu.com/Download/Index.asp">http://support.ts.fujitsu.com/Download/Index.asp</a>
<b>Number of ports</b>	1
<b>Bus interface</b>	PCIe 2.0 x8
<b>Bus transfer rate</b>	5GT/s
<b>LEDs</b>	3 LEDs indication for link speed
<b>Standards</b>	<ul style="list-style-type: none"> <li>· ANSI Fibre Channel: FC-PI-4, FC-FS-2, FC-FS-2/AM1, FC-LS, FC-GS-6, FC-FLA, FC-PLDA, FC-TAPE, FC-DA, FCP through FCP-4, SBC-3, FC-SP, FC-HBA and SMI-S v1.1</li> <li>· PCI Express base spec 2.0</li> <li>· PCI Express card electromechanical spec 2.0</li> <li>· Fibre Channel class 2 and 3</li> <li>· PHP hot plug-hot swap</li> </ul>
<b>Technology</b>	FC-AL, FC-AL2, point-to-point, switched fabric
<b>Fibre Channel interface</b>	MMF

Order code	Product name (vendor)	Height of bracket	Number of ports	Related product
S26361-F3631-E1	QLE2560	Full Height (FH)	1	PRIMERGY Server
S26361-F3631-E201	QLE2560	Low Profile (LP)	1	PRIMERGY Server
S26361-F3631-L1	QLE2560	Full Height (FH)	1	PRIMERGY Server
S26361-F3631-L201	QLE2560	Low Profile (LP)	1	PRIMERGY Server

## Environment

<b>Power consumption</b>	5.5 W (typical)
<b>Temperature (operating)</b>	0 - 55 °C
<b>Storage temperature</b>	-40 - 70 °C

## Compliance

<b>Compliance notes</b>	According to the corresponding system
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

# More information

## Fujitsu products, solutions & services

In addition to Fujitsu with QLE2560 Fibre Channel Host Bus Adapter, 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/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about FUJITSU Server QLE2560 Fibre Channel Host Bus Adapter, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. [www.fujitsu.com/primergy](http://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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