

# Data Sheet

## Emulex Dual port 8 Gbit/s Fibre Channel Mezzanine Card

High-speed SAN connectivity based on standards

To connect your PRIMERGY Blade Server to outside networks and storage, Fujitsu offers a variety of options to support your familiar standards such as Ethernet, Fibre Channel, SAS and InfiniBand. They connect directly to the high performance midplane and guarantees lossless, highly efficient data transfer to and from the Connection Blades. In order to optimally meet your needs, Fujitsu provides a wide range of various Mezzanine Cards starting from 1 and 10 Gbit/s Ethernet, 8 and 16 Gbit/s Fibre Channel, 40 and 56 Gbit/s InfiniBand to 6 Gbit/s SAS with RAID functionality. Even Converged Network Adapters (CNAs) that provide multiple network connections and Fibre Channel over Ethernet (FCoE) as well as iSCSI are part of the portfolio.

### Dual port 8 Gbit/s Fibre Channel Mezzanine Card

Streamlined installation and management, unrivaled scalability, and industry-leading virtualization support make the dual-channel MC-FC82E Fibre Channel host bus adapter (HBA) ideal solutions for enterprise, mixed-OS and virtual server environments. With powerful management capabilities and broad platform support, they deliver maximum performance in the broadest range of applications and environments.

Emulex LightPulse HBAs' highly integrated processor design minimized onboard components to improve host performance and efficiency. Advanced error-checking features ensure the integrity of block data as it traverses the SAN. Emulex's firmware-based architecture enables feature and performance

upgrades without costly hardware changes. The unique Service Level Interface (SLI™) allows use of a common driver across all models of Emulex HBAs on a given OS platform. Installation and management facilities are designed to minimize server reboots and further simplify deployment. The new Fibre Channel Mezzanine Card is fully functional compatible with the Emulex LPe12002 Host Bus Adapter.



Main Features	Benefits
<ul style="list-style-type: none"> <li>Support for Message Signaled Interrupts eXtended (MSI-X), improves host utilization &amp; enhances application performance</li> <li>Support for 8Gb/s, 4Gb/s &amp; 2Gb/s Fibre Channel devices</li> <li>Comprehensive virtualization capabilities with support for N_Port ID Virtualization (NPIV and Virtual Fabric)</li> <li>Host to Fabric FC-SP authentication</li> <li>BlockGuard® ready - ensures end-to-end data integrity</li> <li>Common driver model allows a single driver to support all Emulex HBAs on a given OS</li> <li>Easy deployment of new firmware with minimal server reboots</li> </ul>	<ul style="list-style-type: none"> <li>Provides superior performance for the enterprise</li> <li>Integrates seamlessly into existing SANs</li> <li>Supports IT server consolidation and energy conservation initiatives</li> <li>Allows application of SAN best practices, tools and processes with virtual server deployments</li> <li>Protects sensitive data from unauthorized access</li> <li>Assures data availability and data integrity</li> <li>Improves IT staff productivity through simplified deployment and management</li> </ul>

# Technical details

## Technical details

<b>Controller type</b>	Fibre Channel Mezzanine Card
<b>Supported system units</b>	PRIMERGY BX400 S1 PRIMERGY BX900 S1 PRIMERGY BX900 S2
<b>Supported Server Blades</b>	all PRIMERGY BX9xx Server Blades
<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>	2
<b>Bus interface</b>	PCIe 2.0 x8
<b>Bus transfer rate</b>	5GT/s
<b>Interrupt Levels</b>	MSI-X; INTA; MSI
<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-AL-2, 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>· Fibre Channel class 2 and 3</li> </ul>

Order code	Product Name	Formfactor
S26361-F3874-E1	PY FC Mezz Card 8Gb 2 Port (MC-FC82E)	BX900 Mezzanine
S26361-F3874-L1	PY FC Mezz Card 8Gb 2 Port (MC-FC82E)	BX900 Mezzanine

## Environment

<b>Power consumption</b>	10 W
<b>Temperature (operating)</b>	0 - 55 °C
<b>Storage temperature</b>	-40 - 70 °C

## Compliance

<b>Product</b>	The Mezz Card fulfills the same certifications as the Server Blade where it will be installed
<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 Dual port 8 Gbit/s Fibre Channel Mezzanine Card, 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 Dual port 8 Gbit/s Fibre Channel Mezzanine Card, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. <http://www.fujitsu.com/primergy>

## Fujitsu green policy innovation

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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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