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# Data Sheet

## FUJITSU Server PRIMERGY BX Fibre Channel Pass Thru 8Gbit/s 18/18

Fast and direct connection to SAN



FUJITSU Server PRIMERGY will give you the servers you need to power any workload and changing business requirements. As business processes expand so does the need for applications. Each has its own resource footprint, so you need a way to optimize your computing to better serve your users. PRIMERGY systems will help you match your computing capabilities to your business priorities with our complete portfolio of expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as hyper-converged scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, provide more agility in daily operations, and integrate seamlessly to let help you concentrate on core business functions.

FUJITSU Server PRIMERGY BX blade systems are the perfect platform to build a converged infrastructure designed to reduce IT costs, time and efforts. PRIMERGY Blade Servers utilizes a modular architecture and contain in addition to the compute power, all required infrastructure and network components, storage capacity as well as management modules that helps companies to simplify their infrastructure, achieve significant cost reductions and increase flexibility.

### PRIMERGY BX Fibre Channel Pass Thru 8Gbit/s 18/18

Blade Servers and Fibre Channel SANs build an ideal infrastructure for maximizing the benefits of consolidation and server virtualization. In addition to Fibre Channel switch blades Fujitsu offers a connection blade for direct transmission of sensitive data between servers and storage. Each of the maximum 3 (4) Fibre Channel pass-thru blades within a BX400 (BX900) blade server enclosure provides secure interconnectivity with up to 8 Gbit/s for up to 18 FC ports. The small pass-thru form factor (single width and height) allows connection of up to 72 FC ports whilst leaving 2 more IO fabrics of the BX system unit usable for additional types of transmission, e. g. for Infiniband. At twice the bandwidth of 4 Gbit/s networks, each Server Blade can host more virtual machines ensuring high performance and availability.



# Features & Benefits

Main Features	Benefits
<p><b>Safe operation</b></p> <ul style="list-style-type: none"> <li>■ 4/8 Gbit/s Fibre Channel pass thru technology with 18 physically separated lines</li> </ul>	<ul style="list-style-type: none"> <li>■ Most secure transmission of data between server blades and SAN at high, native speed</li> </ul>
<p><b>Universal use - Independence</b></p> <ul style="list-style-type: none"> <li>■ Protocol-free operation</li> </ul>	<ul style="list-style-type: none"> <li>■ Hassle-free connection to all market relevant FC networks, avoiding any dependency on proprietary protocols, protecting investments in existing storage and SAN environments</li> </ul>
<p><b>Scalability provided</b></p> <ul style="list-style-type: none"> <li>■ Installation in Fabric 2 and 3 of the BX400 (3 times) or BX900 (4 times) system units</li> </ul>	<ul style="list-style-type: none"> <li>■ Maximum 4 pass-thru blades within one chassis offer scalability for up to 4 FC connections per server blade</li> </ul>
<p><b>Flexible connection</b></p> <ul style="list-style-type: none"> <li>■ Auto-sensing for transmission speeds of 4 and 8 Gbit/s</li> </ul>	<ul style="list-style-type: none"> <li>■ Flexible connectivity to external network components that provide different interconnect speeds</li> </ul>
<p><b>Optimal CAPEX</b></p> <ul style="list-style-type: none"> <li>■ Pass-thru characteristics allow cost optimized production compared to switch technology, including SFP and SFP+ interface modules</li> </ul>	<ul style="list-style-type: none"> <li>■ Price sensitive customers, who don't see the necessity of switched connectivity, will be highly satisfied by this connection blade</li> </ul>
<p><b>Always maximal performance at low costs</b></p> <ul style="list-style-type: none"> <li>■ 18x18 - End-to-End connection with up to 18 Gbit/s per single connection</li> </ul>	<ul style="list-style-type: none"> <li>■ If overall throughput maximization in a blade server chassis is required, pass-thru blades are the better solution than switch blades; in addition they are generally cheaper when purchased, even though the number of cables needed is high</li> </ul>
<p><b>High availability</b></p> <ul style="list-style-type: none"> <li>■ Up to 2x 2 pass-thru blades may be installed in a blade server enclosure, offering either up to 72 active connections, or 2x 36 connections, where the second 36 are redundant.</li> </ul>	<ul style="list-style-type: none"> <li>■ Easy and efficient high availability for always accessible SAN located storage</li> </ul>

# Technical details

## PRIMERGY BX Fibre Channel Pass Thru 8Gbit/s 18/18

Connection type	SAN Connection Blade 8 Gbit/s Fibre Channel Pass Through Blade
Supported system units	PRIMERGY BX400 S1, PRIMERGY BX900 S1, PRIMERGY BX900 S2
Max. number per BX unit	3 in PRIMERGY BX400 S1, 4 in PRIMERGY BX900 S1/S2
Supported Server Blades	all PRIMERGY BX9xx and BX25xx Server Blades
Supported Mezzanine Cards	PRIMERGY BX FC Mezz Card 8 Gbit/s 2 port (MC-FC82E)

### Interfaces

Down-link ports	18 x 8 Gbit/s FC
Up-link ports	18 x Universal (SFP, SFP+) full-duplex, auto-sensing

### Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
S26361-F3873-E109	Fibre Channel 8 Gbit/s	SFP+ / MMF (SWL)	LC-style / max. 190 m
Interface Module notes	Only Fujitsu certified modules are supported Max. distance varies according to FC speed and cable type		

### Technical specifications

Fibre Channel features	4 Gbit/s and 8 Gbit/s Fibre Channel Pass Thru with auto speed negotiation. The device is 100% transparent to the Fibre Channel protocol.
Interoperability	Brocade 16Gbit/s switches: Brocade 6000 series Brocade 8 Gbit/s switches: Brocade 300, 5100, 5300 and director modules Brocade 4 Gbit/s switches: Brocade 200e, 4100, 4900, 5000 and director modules Cisco MDS 9000 Family Hardware
Management	Self-managing component

### Dimensions / Weight

Dimensions (W x D x H)	192.6 x 267.9 x 27.9 mm
Weight	ca. 1.5 kg

### Environment

Temperature note	see corresponding PRIMERGY BX System Unit
Maximum altitude	see corresponding PRIMERGY BX System Unit
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>

### Electrical values

Active power (max. configuration)	42 W
Heat emission (max. configuration)	151.2 kJ/h (143.3 BTU/h)
Electrical value notes	Including 18 SFP+ modules

### Compliance

Germany	GS
Europe	CE Class A *
Global	CB RoHS WEEE
Japan	VCCI:V3 Class A + JIS 61000-3-2
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance notes	In combination with corresponding PRIMERGY BX system unit There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>

## More information

### Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY BX Fibre Channel Pass Thru 8Gbit/s 18/18, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

#### Fujitsu Portfolio

Built 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 offerings. This allows customers to select 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/services/computing/](http://www.fujitsu.com/global/services/computing/)

#### Software

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### More information

Learn more about Fujitsu PRIMERGY BX Fibre Channel Pass Thru 8Gbit/s 18/18, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. <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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