

# Data Sheet

## Fujitsu PRIMERGY BX InfiniBand Switch 56 Gbit/s 18/18

Top performance for highly-demanding network connections

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### PRIMERGY BX InfiniBand Switch 56 Gbit/s 18/18

The InfiniBand Switch 56 Gb 18/18 is a double-width Connection Blade that can be used in the Fujitsu PRIMERGY Blade Servers. The Connection Blade offers maximum performance by providing a high bandwidth and at the same time low latency. The hardware requires two horizontal slots at the rear of the blade chassis; up to three of the switches can be used in one housing. The switch with its total of 36 connections provides one of the highest densities in today's switch architectures. The Connection Blade supports Fourteen Data Rate (FDR x4) Infiniband and thus offers a bandwidth of up to 56Gb/s per port. The non-blocking architecture is used to support both adaptable and static routing so as to avoid or reduce any overloading. Combining InfiniBand with the highly-flexible dense capacity of the PRIMERGY BX900 series, Fujitsu enables datacenters to enjoy overall savings, through system consolidation from larger, less powerful server racks, and reduced floor-space requirements.



# Features & Benefits

Main Features	Benefits
<b>Efficient performance</b> <ul style="list-style-type: none"><li>18x uplink ports, 18x downlink ports with Fourteen Data Rate (FDR x4) and QSFP connectors</li></ul>	<ul style="list-style-type: none"><li>Leading industrial switch platform as regards performance, power consumption and packing density</li></ul>
<b>Best-in-class transfer rates</b> <ul style="list-style-type: none"><li>InfiniBand switch architecture with up to 56Gb/s per port</li></ul>	<ul style="list-style-type: none"><li>High bandwidth, low latency for compute-intensive applications</li></ul>
<b>Management for constant usage</b> <ul style="list-style-type: none"><li>Two internal Ethernet ports (one port for each MMB) for switch management tasks</li></ul>	<ul style="list-style-type: none"><li>- Monitoring temperature and power consumption</li><li>- Health check</li><li>- Configuration settings</li><li>- Hot-pluggable</li></ul>
<b>Never overloaded</b> <ul style="list-style-type: none"><li>Non-blocking architecture</li></ul>	<ul style="list-style-type: none"><li>Automatic and dynamic routing of data traffic to avoid overload</li></ul>

# Technical details

## PRIMERGY BX InfiniBand Switch 56 Gbit/s 18/18

<b>Connection type</b>	InfiniBand Connection Blade 36-port IB CB 18 ports internal, 18 ports external up to 56Gb per port QSFP connectors for external ports included
<b>Supported system units</b>	PRIMERGY BX400 S1, PRIMERGY BX900 S2
<b>Max. number per BX unit</b>	1 in PRIMERGY BX400 S1, 3 in PRIMERGY BX900 S2
<b>Supported Server Blades</b>	PRIMERGY BX9xx Server Blades w. IB mezzanine card PRIMERGY BX25xx M1 Server Blades w. IB mezzanine card
<b>Supported Mezzanine Cards</b>	PRIMERGY BX IB Mezz Card 56 Gbit/s 2 port

### Interfaces

<b>Down-link ports</b>	18 x 56 Gbit/s IB
<b>Up-link ports</b>	18 x 56 Gb (QSFP)

### Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
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### Technical specifications

<b>Management</b>	Embedded CPU for out-band management Management is done via Command Line Interface (CLI) Features: <ul style="list-style-type: none"> <li>CPU board management</li> <li>FW management</li> <li>Inventory, Status and Statistics</li> <li>Debug tools</li> <li>Logging</li> </ul>
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### Dimensions / Weight

<b>Dimensions (W x D x H)</b>	387.5 x 266.5 x 28.22 mm
<b>Weight</b>	3.3 kg

### Environment

<b>Temperature note</b>	see corresponding PRIMERGY BX System Unit
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### Electrical values

<b>Active power (max. configuration)</b>	150 W
<b>Heat emission (max. configuration)</b>	540.0 kJ/h (511.8 BTU/h)
<b>Electrical value notes</b>	18x QSFP module for uplink ports included

<b>Product</b>	
<b>Germany</b>	GS
<b>Europe</b>	CE Class A *
<b>USA/Canada</b>	ULc/us FCC Class A
<b>Global</b>	CB RoHS WEEE
<b>Japan</b>	VCCI:V3 Class A + JIS 61000-3-2
<b>Taiwan</b>	BSMI

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**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.

\* Warning:

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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**Compliance link**

<https://sp.ts.fujitsu.com/sites/certificates>

# More information

## Fujitsu platform solutions

In addition to Fujitsu PRIMERGY BX InfiniBand Switch 56 Gbit/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.

### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### 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 PRIMERGY BX InfiniBand Switch 56 Gbit/s 18/18, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. <http://www.fujitsu.com/fts/products/computing/servers/primergy/blades/connection/cb-pmod-109706.html>

## Fujitsu green policy innovation

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