

# Data Sheet

## Fujitsu PRIMERGY BX400 S1 Blade Server

BLADE MADE EASY - tailor-made for medium-sized companies

Fujitsu PRIMERGY BX Blade Servers meet all the requirements of medium-sized companies as well as the branches and data centers of large companies, especially with their comprehensive offer of services and solutions. They offer a clever alternative in providing an IT infrastructure with high levels of efficiency, flexibility and business continuity. The PRIMERGY BX system family is designed so that the chassis components can be used throughout the family. This means that changing business requirements can be met quickly and easily. Servers, storage and connection blades can be added without any additional cabling effort or administration software. Its modular design gives the PRIMERGY BX Blade Servers considerable advantages, such as high density as well as reliable and dynamic 24x7 operations. The PRIMERGY BX Blade Servers are the ideal choice for today's and tomorrow's data center solutions where reliability, performance and connectivity are important requirements. They can be used for a wide range of applications, starting with web or terminal servers up to high-performance databases. And as business requirements grow, the PRIMERGY BX Blade Servers can be adapted to meet individual requirements and fulfill such needs in a suitable manner.

### PRIMERGY BX400 S1

The Fujitsu PRIMERGY BX400 is a versatile IT infrastructure in the box. The blade server is ideally suited for medium-sized companies and branch offices as well as for larger enterprises - as an extension to the PRIMERGY BX900 - that do not need the computing performance of 18 server blades. The PRIMERGY BX400 simplifies IT

operations for the entire lifecycle. As a complete business solution the blade server saves time and money from the start and can still be managed with existing resources.

The PRIMERGY BX400 is ideal, because the system offers you a smarter option for setting up an IT infrastructure that supports your business processes with fewer cables, less power consumption and smaller space requirements. The system provides an optimal combination of server, storage and connection blades in a small housing and is characterized by a comprehensive user-friendly concept with a simple option for installation and administration.

The blade server provides a modular infrastructure for use in both office and in data center environments and the option of using state-of-the-art technology with high I/O flexibility and bandwidth. The PRIMERGY BX400 enclosure is available in two different versions. The rack version can be easily integrated in industry standard 19-inch Fujitsu racks and third-party racks. Thanks to the low noise levels of the PRIMERGY BX400, the floorstand version can be used under your desk in conventional offices without any problems. Both models can be equipped with the same PRIMERGY BX server, storage and connection blades.

The PRIMERGY BX400 is a versatile infrastructure for customers with large computing and storage requirements which reduces complexity, saves power and increases productivity to give you more time to focus on your core business.



For More Information:  
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# Features and Benefits

Main Features	Benefits
<p><b>Easy-to-use</b></p> <ul style="list-style-type: none"> <li>■ The Base Configuration Wizard provides support during the configuration of the system unit and guides the user step-by-step through the menu to start the blade server.</li> <li>■ The ServerView Dashboard is an intuitive user interface, provides information about the system status and an opportunity to execute basic administrative tasks.</li> <li>■ The local service panel supplies status information directly via the system LCD display, and provides support during administration, configuration, diagnostics and monitoring.</li> </ul> <p><b>Green IT</b></p> <ul style="list-style-type: none"> <li>■ The consolidated and centralized design of the PRIMERGY BX400 blade server needs less energy in comparison with rack servers, because the infrastructure components are shared.</li> <li>■ Intelligent monitoring and control through adaptive power management helps you better understand and manage power consumption and thermal effects.</li> <li>■ Large fans, air-flow channels and efficient power supply units with more than 92% efficiency cool the components directly and quietly, and also reduce power consumption.</li> </ul> <p><b>Modular-design</b></p> <ul style="list-style-type: none"> <li>■ The PRIMERGY BX400 provides an optimal combination of server, storage and connection blades in a small housing.</li> <li>■ The system is available as both a rack and a floorstand version. Both versions use state-of-the-art technology with the high I/O flexibility and bandwidth known from the PRIMERGY BX900.</li> <li>■ Through the possible integration of a shared-storage solution the BX400 becomes a small data center in a box.</li> </ul> <p><b>Cost-sensitive</b></p> <ul style="list-style-type: none"> <li>■ Modular infrastructure for servers, storage, network and power which can be used as required and which is integrated in a consolidated housing with shared administration.</li> <li>■ Less space required, power and cable with more integrated redundancy.</li> </ul>	<ul style="list-style-type: none"> <li>■ The PRIMERGY BX400 offers a comprehensive user-friendly approach. The simple installation and administration processes with intuitive user interfaces help to save time and money during day-to-day operations and spent less time on a great number of IT maintenance tasks.</li> <li>■ The PRIMERGY BX400 offers customers an energy-efficient IT infrastructure to reduce the electric bill, minimize the loads on the climatization and reduce the IT-related CO2 emissions.</li> <li>■ A modular infrastructure with investment protection for flexible growth scenarios for use in both data centers and conventional office environments. It provides more capacity while requiring less space.</li> <li>■ The consolidated design of the PRIMERGY BX400 is more cost-efficient with lower operating costs compared with conventional server, storage and network solutions.</li> </ul>

# Technical details

## Enclosure

System unit type	6 U chassis for 19-inch rack, or floorstand version
Front bays	8 half height bays for server or storage blades
Midplane	High speed midplane with 3 fabrics
Rear bays	4 x for Connection Blades 4 x for PSU/fan modules
Management Blades	1x hot-plug management blade as standard, redundant management blades as option
Fan configuration	Up to 3 hot plug, redundant rear fan units (2 fans per unit)
Power supply configuration	Up to 4x hot-plug power supply modules (1x as standard)

## Operating panel

Operating buttons	On/off switch ID button
Status LEDs	Power (amber / green) System status (amber / yellow) Identification (blue)
Service display	ServerView Local Service Display for Blade (LSB)
ODD	1 - assigned to server blade by MMB control
USB ports	2 - assigned to server blade by MMB control

## Management Blade

Type of Unit	BX900 MMB S1
LAN / Ethernet (RJ-45)	2 x 1Gb Ethernet
Service LAN (RJ45)	Dedicated Service LAN port for MMB (1Gb Ethernet)
Serial 1 (9-pin)	1 x RS-232-C
USB ports	2 x (at rear side of the system)

## Dimensions / Weight

Floor-stand (W x D x H)	578 x 819 x 366 mm
Rack (W x D x H)	445 x 785 x 267 mm
Mounting Depth Rack	818 mm
Height Unit Rack	6 U
19" rackmount	Yes
Weight	Rack: up to 98 kg / Floorstand: up to 112.5 kg
Weight notes	Fully assembled Actual weight may vary depending on configuration
Rack integration kit	Included in Rack System

## Electrical values

Max. input of single power supply	1200 W / 1600 W (100 V - 240 V)
Power supply configuration note	max. 4 PSU in n, n+1 or n+n redundancy configuration.
Power supply efficiency	92% (at 50% PSU load, CSCI "gold")
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Rated current max.	45 A / 22.5 A (100 V - 240 V)
Electrical value notes	Active power max. value depends on system configuration. For details see Power Configuration Tool.

## Environmental

Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	up to 60.5dB(A) (operating), 45dB(A) operating in Low Noise mode

**Environmental**

<b>Sound power (LWAd; 1B = 10dB)</b>	71dB (operating), 62dB (operating in Low Noise mode)
<b>Operating ambient temperature</b>	5 - 35°C
<b>Operating environment</b>	FTS 04230 – Guideline for Data Center (installation locations)
<b>Operating environment Link</b>	<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>

**Compliance**

<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 Class A + JIS 61000-3-2
<b>Australia/New Zealand</b>	C-Tick
<b>Taiwan</b>	BSMI
<b>Compliance notes</b>	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.
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates/default.aspx">https://sp.ts.fujitsu.com/sites/certificates/default.aspx</a>

**Server and Storage Blades pluggable into system unit front side**

Product Model name	Product Type	Processor quantity support	Max. number per BX400	Memory slots total	Supported capacity RAM (max.)
PRIMERGY BX920 S2	Dual Socket Server Blade (Intel)	1 - 2	8	9	144 GB
	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=cfd1622e-9fae-419b-ad1c-91f78c9f93e7">http://docs.ts.fujitsu.com/dl.aspx?id=cfd1622e-9fae-419b-ad1c-91f78c9f93e7</a>				
PRIMERGY BX922 S2	Dual Socket Server Blade (Intel)	1 - 2	8	12	192 GB
	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=cb2281f2-b794-422b-aa87-a62dfb7914c">http://docs.ts.fujitsu.com/dl.aspx?id=cb2281f2-b794-422b-aa87-a62dfb7914c</a>				
PRIMERGY BX924 S2	Dual Socket Server Blade (Intel)	2	8	18	288 GB
	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=43070323-fed9-4cfb-83f5-f791be68994a">http://docs.ts.fujitsu.com/dl.aspx?id=43070323-fed9-4cfb-83f5-f791be68994a</a>				
PRIMERGY SX910 S1	Storage Blade Tape		4		
	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=cc5ba5c8-2c98-4647-b585-db5890f9243c">http://docs.ts.fujitsu.com/dl.aspx?id=cc5ba5c8-2c98-4647-b585-db5890f9243c</a>				
PRIMERGY SX940 S1	Storage Blade Disk		4		
	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=cabbdb01-8a40-44dd-af4d-50bc074c0ec8">http://docs.ts.fujitsu.com/dl.aspx?id=cabbdb01-8a40-44dd-af4d-50bc074c0ec8</a>				
PRIMERGY SX960 S1	Storage Blade Disk		2		
	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=489d2a0c-81f1-4d3e-aaa3-df55ac446930">http://docs.ts.fujitsu.com/dl.aspx?id=489d2a0c-81f1-4d3e-aaa3-df55ac446930</a>				

**Connection Blades (CB) pluggable into system unit rear side**

Connection type	Down-link ports	Up-link ports	Max. number per BX400
Eth Switch/IBP 1Gb 36/12	36 x 1 Gb Eth	8 x 1 Gb (RJ45), 4 x 1 Gb (SFP)	4 (CB Slot 1/2 3/4)
			<a href="http://docs.ts.fujitsu.com/dl.aspx?id=698e96b8-f040-4cd5-93ca-c37d97d07868">http://docs.ts.fujitsu.com/dl.aspx?id=698e96b8-f040-4cd5-93ca-c37d97d07868</a>
Eth Switch/IBP 1Gb 36/8+2	36 x 1 Gb Eth	8 x 1 Gb (RJ45), 2 x 10 Gb (SFP+)	4 (CB Slot 1/2 3/4)
			<a href="http://docs.ts.fujitsu.com/dl.aspx?id=4f316397-847e-4908-ad4f-38376cb1e6b8">http://docs.ts.fujitsu.com/dl.aspx?id=4f316397-847e-4908-ad4f-38376cb1e6b8</a>
Eth Switch/IBP 10Gb 18/8	18 x 10 Gb Eth	8 x 10 Gb (SFP+)	4 (CB Slot 1/2 3/4)
			<a href="http://docs.ts.fujitsu.com/dl.aspx?id=935c959f-4c36-4bf3-8c34-32118330daba">http://docs.ts.fujitsu.com/dl.aspx?id=935c959f-4c36-4bf3-8c34-32118330daba</a>
FC Switch 8Gb Brocade 26 Port Enterprise	18 x 8 Gb FC	8 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
			<a href="http://docs.ts.fujitsu.com/dl.aspx?id=a499f935-abd8-47e3-b836-f16da5d81c70">http://docs.ts.fujitsu.com/dl.aspx?id=a499f935-abd8-47e3-b836-f16da5d81c70</a>
FC Switch 8Gb Brocade 14 Port	18 x 8 Gb FC	8 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
			<a href="http://docs.ts.fujitsu.com/dl.aspx?id=a499f935-abd8-47e3-b836-f16da5d81c70">http://docs.ts.fujitsu.com/dl.aspx?id=a499f935-abd8-47e3-b836-f16da5d81c70</a>
FC Switch 8Gb Brocade 26 Port	18 x 8 Gb FC	8 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
			<a href="http://docs.ts.fujitsu.com/dl.aspx?id=a499f935-abd8-47e3-b836-f16da5d81c70">http://docs.ts.fujitsu.com/dl.aspx?id=a499f935-abd8-47e3-b836-f16da5d81c70</a>

**Connection Blades (CB) pluggable into system unit rear side**

Connection type	Down-link ports	Up-link ports	Max. number per BX400
IB Switch 40Gb 18/18	18 x 40 Gb IB	18 x 40 Gb (QSFP)	1 (CB Slot 3/4)
<a href="http://docs.ts.fujitsu.com/dl.aspx?id=2f383313-f3a9-4791-b30b-dcb2f8add4de">http://docs.ts.fujitsu.com/dl.aspx?id=2f383313-f3a9-4791-b30b-dcb2f8add4de</a>			
FC Pass Thru 8Gb 18 Port	18 x 8 Gb FC	18 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
<a href="http://docs.ts.fujitsu.com/dl.aspx?id=9da29262-2992-48ae-8986-b9f45f030298">http://docs.ts.fujitsu.com/dl.aspx?id=9da29262-2992-48ae-8986-b9f45f030298</a>			
Eth Switch/IBP 1Gb 18/6	18 x 1 Gb Eth	6 x 1 Gb (RJ45)	4 (CB Slot 1/2 3/4)
<a href="http://docs.ts.fujitsu.com/dl.aspx?id=5504a9cf-308c-4d0a-a16a-852fd9ec527e">http://docs.ts.fujitsu.com/dl.aspx?id=5504a9cf-308c-4d0a-a16a-852fd9ec527e</a>			

**Warranty**

Standard Warranty	3 years
Service level	On-site Service (depending on country)
<b>Maintenance and Support Services - the perfect extension</b>	
Recommended Service	7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Spare Parts availability	5 years
Service Weblink	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>

## More information

### Fujitsu platform solutions

In addition to Fujitsu PRIMERGY BX400 S1, 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/services/computing/](http://www.fujitsu.com/global/services/computing/)

#### Software

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

### More information

Learn more about Fujitsu PRIMERGY BX400 S1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.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 resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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