

Data Sheet

FUJITSU Server PRIMERGY BX400 S1 Blade System

Affordable blade technology for medium-sized businesses and branches

FUJITSU Server PRIMERGY systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as density-optimized scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in daily operations in order to turn IT faster into a business advantage.

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 BX400 S1

The Fujitsu Server PRIMERGY BX400 is a fully-featured blade system built from the ground up to be user-friendly and versatile, helping to meet large-scale computing and storage requirements. It provides an optimum combination of up to eight server or storage blades in a small enclosure, supported by a comprehensive set of solutions and services. It combines server, storage and networking into a single chassis in order to convert it into a small data center with impressive input/output flexibility and bandwidth known from the PRIMERGY BX900. Its modular design makes the PRIMERGY BX400 more affordable than other blade servers, while also maximizing the use of

limited office space with a compact footprint. Two different system versions of the PRIMERGY BX400 are available to suit different requirements. The rack version can be integrated easily into an industry standard 19-inch racks. Alternatively, the floor-stand version with low noise levels of only 45 decibels can be installed under a desk or in a reception area without distracting employees. In fact, it is one of the quietest blade servers available.

Easy to install, configure and manage, the PRIMERGY BX400 allows companies to spend less time on set-up and management, and instead focus on the core business processes essential for profitability. Fujitsu's PRIMERGY BX400 offering is enhanced by a comprehensive set of packaged services that support an IT team throughout the implementation process. From training, consulting and integration support and financing to detailed IT optimization, our services help to realize the full potential of the technology and keep the environment up and running.



Features & Benefits

Main Features	Benefits
<p>Tailor-made for your Business</p> <ul style="list-style-type: none"> ■ The Fujitsu PRIMERGY BX400 provides an optimum combination of up to eight server or storage blades in a small enclosure that is available as 6U rack- and floorstand-version. ■ Combines server, storage and networking into a single chassis in order to convert it into a small data center and to deploy PRIMERGY BX400 into an everyday office environment. <p>Converged Performance</p> <ul style="list-style-type: none"> ■ Latest Intel® Xeon® processor E5-2400v2 / E5-2600v3 product family, scalable memory configurations and flexible dual-channel 10GbE Universal Converged Network Adapter (UCNA) to provide a common infrastructure for LAN and SAN and the ability to partition the bandwidth, making it ideal to suit the needs of individual applications. ■ Ideal suited as complement to x86 server virtualization with additional benefits such as improved manageability, availability, and operational efficiency from shared cable infrastructures or virtual input/output (I/O). <p>Simple to Manage - Easy to Control</p> <ul style="list-style-type: none"> ■ With ServerView you manage your servers and enclosures locally and remotely and take complete control regardless of the state of the server operating system. ■ Additional software components to simplify the management of PRIMERGY servers in LAN and SAN environments while providing highest flexibility for deployment and operation. <p>Enhanced Energy Optimization</p> <ul style="list-style-type: none"> ■ Thanks to its highly efficient components, advanced cooling technology, and potent power management tools, the Fujitsu PRIMERGY BX400 also reduces cooling and air conditioning costs. <p>Affordable IT Operations</p> <ul style="list-style-type: none"> ■ Modular upgrade options for server- or storage blades provide the flexibility to integrate new technologies into existing environments. ■ Additional server blades or components can be easily added or replaced without the re-cabling that usually requires multiple man-hours or complicated processes. ■ Fujitsu's PRIMERGY BX400 offering is enhanced by a comprehensive set of packaged services that support your IT team throughout the implementation process. 	<ul style="list-style-type: none"> ■ Modular infrastructure to meet office and datacenter environments, designed to share components throughout the family making it easy to create, customize and grow. ■ Its smart design makes the PRIMERGY BX400 more flexible than other server solutions, offering easy scalability to protect your investments. ■ Simplified lifecycle management cuts server administration time by up to 60 percent, saving you even more effort and money. ■ More efficient use of power and cooling to save energy costs as never before. ■ The consolidated design makes the PRIMERGY BX400 more affordable than traditional rack or tower servers, storage and networking solutions offering lower total operational costs.

Technical details

PRIMERGY BX400 S1

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 additional hot plug, redundant fan modules
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 (orange / 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 1Gbit/s Ethernet
Management LAN (RJ45)	Dedicated Service LAN port for MMB (1Gb Ethernet)
Serial 1 (9-pin)	1 x RS-232-C
USB 2.0 ports	2 x (at rear side of the system)

Dimensions / Weight

Floor-stand (W x D x H)	366 x 819 x 578 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 / 1785 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 % (80 PLUS 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)
Active power (max. configuration)	2,900 W
Heat emission	10440.0 kJ/h (9895.2 BTU/h)
Electrical value notes	To estimate the power consumption of different configurations use the Power Calculator of the System Architect: http://configurator.ts.fujitsu.com/public/

Environment

Operating ambient temperature	5 - 35 °C
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Environment

Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	up to 61.5 dB(A) (operating), 45.5 dB(A) (standby); 45 dB(A) operating in Low Noise mode
Sound power (LWAd; 1B = 10dB)	7.4 B (operating), 6.1B (standby)

Compliance

Global	CB RoHS WEEE
Germany	GS
Europe	CE Class A *
USA/Canada	ULc/us FCC Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
Compliance notes	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.

Server and Storage Blades pluggable into system unit front side

Product Model name	Processor type support	Processor quantity support	Max. number per BX400	Memory slots total	Supported capacity RAM (max.)
PRIMERGY BX2560 M1	Intel® Xeon® processor E5-2600 v3 product family-based platform http://docs.ts.fujitsu.com/dl.aspx?id=e8217dbe-2999-4ecf-829a-4f3ac2fd3a19	1 - 2	8	16	1,024 GB
PRIMERGY BX2580 M1	Intel® Xeon® processor E5-2600 v3 product family-based platform http://docs.ts.fujitsu.com/dl.aspx?id=48c3c546-5c2f-4f60-bdd9-bf40448cefa4	1 - 2	8	24	1,536 GB
PRIMERGY BX920 S4	Intel® Xeon® processor E5-2400 v2 product family http://docs.ts.fujitsu.com/dl.aspx?id=33efe617-f9a6-44cf-ac8a-ab5eadfe03f0	1 - 2	8	12	768 GB
PRIMERGY SX960 S1	http://docs.ts.fujitsu.com/dl.aspx?id=489d2a0c-81f1-4d3e-aaa3-df55ac446930		2		
PRIMERGY SX980 S2	http://docs.ts.fujitsu.com/dl.aspx?id=5bbd7637-71eb-49ed-b5c9-b3e7737b42d5		max. 2		

Connection Blades (CB) pluggable into system unit rear side

Connection type	Down-link ports	Up-link ports	Max. number per BX400
Eth FEX 10Gb 16/8	16 x 10 Gbit/s Eth	8 x 10 Gbit/s (SFP+)	4 (CB Slot 1/2 3/4)
Eth Pass Thru 10Gb 18/18	18 x 1/10 Gbit/s Eth	18 x 1/10 Gbit/s (SFP/SFP+)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP/EHM 10/40Gb 18/8 + 2	18 x 1/10 Gbit/s Eth	8 x 10 Gbit/s (SFP+), 2 x 40Gbit/s (QSFP+)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP/EHM 1Gb 18/6	18 x 1 Gbit/s Eth	6 x 1 Gbit/s (RJ45)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP/EHM 1Gb 36/12	36 x 1 Gbit/s Eth	8 x 1 Gbit/s (RJ45), 4 x 1 Gbit/s (SFP)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP/EHM 1Gb 36/8+2	36 x 1 Gbit/s Eth	8 x 1 Gbit/s (RJ45), 2 x 10 Gbit/s (SFP+)	4 (CB Slot 1/2 3/4)
FC Pass Thru 8Gb 18/18	18 x 8 Gbit/s FC	18 x 8 Gbit/s (SFP/SFP+)	2 (CB Slot 3/4)

Connection Blades (CB) pluggable into system unit rear side

Connection type	Down-link ports	Up-link ports	Max. number per BX400
FC Switch 16Gb Brocade 14 Port	18 x 8/16 Gbit/s FC	8 x 8/16 Gbit/s (SFP+)	2 (CB Slot 3/4)
FC Switch 16Gb Brocade 26 Port	18 x 8/16 Gbit/s FC	8 x 8/16 Gbit/s (SFP+)	2 (CB Slot 3/4)
FC Switch 16Gb Brocade 26 Port Enterprise	18 x 8/16 Gbit/s FC	8 x 8/16 Gbit/s (SFP+)	2 (CB Slot 3/4)
FC Switch 8Gb Brocade 14 Port	18 x 8 Gbit/s FC	8 x 4/8 Gbit/s (SFP/SFP+)	2 (CB Slot 3/4)
FC Switch 8Gb Brocade 26 Port	18 x 8 Gbit/s FC	8 x 4/8 Gbit/s (SFP/SFP+)	2 (CB Slot 3/4)
FC Switch 8Gb Brocade 26 Port Enterprise	18 x 8 Gbit/s FC	8 x 4/8 Gbit/s (SFP/SFP+)	2 (CB Slot 3/4)
SAS Switch 6Gb 18/6	18 x 6 Gbit/s SAS	6 x 6 Gbit/s SAS	2 (CB Slots 3+4)

Warranty

Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/support

Product Support Services - the perfect extension

Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	24x7 Onsite Service with 4h Onsite Response Time
Service Lifecycle	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/products/product-support-services/

More information

Fujitsu OPTIMIZATION Services

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.

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/

Software

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://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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