FUJITSU

Data Sheet
Fujitsu PRIMERGY BX600 S3 Blade Server

Advanced Blade Ecosystem - the ideal platform for branch offices and 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 BX600 S3

The Fujitsu PRIMERGY BX600 S3 is ideally suitable for branches and medium-sized companies regarding small business applications, virtualization scenarios as well as ERP, CRM or branch-specific applications. The system is the ideal choice for infrastructure solutions requiring a reliable and proven platform with the latest server blade technology; it is ideal for customers who wish to reduce their energy and cooling costs, consolidate their IT infrastructure and thus reduce network and cable complexity.

The Fujitsu PRIMERGY BX600 S3 is a compact, power-saving and scaleable blade server for mounting in industry-standard 19-inch racks. The base unit uses 7 height units in the rack and can hold up to ten server blades (different models and versions). The top performance of each server blade, the high levels of reliability und availability regarding hot-plug components as well as the PRIMERGY ServerView® Suite provide functions which ensure failsafe and flexible operations as well as considerable cost benefits and greater user-friendliness. The innovative Cool-safe™ technology combined with our power management software provides an excellent power supply and cooling concept, reducing the temperature by up to 10℃ and thus doubles the lifespan of electronic components.

Features and Benefits

Main Features	Benefits
Compact blade design ■ Compact, space-saving 7U housing for installation in an industry standard 19-inch rack	■ Highly integrated IT infrastructure simplifies the implementation, provision and administration of servers, network and storage components. ■ Innovative design to reduce existing network and cable complexity.
Investment protection & scalability ■ High scalability with four slots for various types of Connection Blades, two redundant, hot-swap Management Blades and four hot-swap power supply units.	■ Investment protection thanks to continuity in the development of server, connection and storage blades. ■ Central management and administration of the entire solution for maximum system reliability and availability. ■ Large selection of Ethernet and Fibre Channel Switch Blades and Pass-Thru Blades.
High performance & flexibility ■ Housing with space for up to 10 dual-socket server blades with Dual-, Quad- and Six-Core Intel® Xeon® processors.	■ High performance and flexibility thanks to the combination options of various server blades in a chassis. ■ Possible selection of server blades to meet data center working requirements optimally.
Energy-efficient design ■ Innovative Cool-safe™ technology combined with the ServerView® Power Manager provides an excellent concept for power and cooling.	■ Energy-efficient operation puts less strain on the data center air-conditioning and reduces your budget. Easy administration and management of data center power and cooling helps to set up environmentally friendly infrastructures.
Powerful architecture ■ Use of state-of-the-art processor technology and high memory capacity with up to 192GB per server blade.	■ High performance with up to two Dual-, Quad and Six-Core processors, better energy efficiency and lower costs for the most demanding applications
Efficient server management ■ Efficient and powerful server management.	■ PRIMERGY ServerView® Suite offers functions which ensure almost fully automated, failsafe and flexible operation of servers. ■ It provides functions for the entire lifecycle of servers and offers considerable cost benefits yet simultaneously a high level of user-friendliness.

Technical details

PRIMERGY BX600 S3

Housing type	Rack

Enclosure

System unit type	7 U chassis for 19-inch Rack
Front bays	10x for hot-plug server or storage blades
Rear bays	1 x for standard KVM module or Digital KVM Switch Blade 4 x for Connection Blades 4 x for PSU
Fan configuration	2x redundant / hot plug fan units as standard
Fan notes	Each fan unit consits of 2 redundant fans.
Power supply configuration	up to 4x hot-plug power supply, 2x as standard

Operating panel

Operating buttons	On/off switch ID button
Status LEDs	Power (amber / green) System status (amber)

Management Blade

Type of Unit	MMB S3
LAN / Ethernet (RJ-45)	1 x 10/100 Mbit Ethernet
Serial 1 (9-pin)	1 x Test (RS-232-C)
Management Blade notes	Upgrade from MMB S2 to MMB S3 possible on site

Dimensions / Weight

Dimensions (W x D x H)	446 x 735 x 307 mm
Height Unit Rack	7 U
19" rackmount	Yes
Mounting Cable depth rack	100 mm (1000 mm Rack recommended)
Weight	up to 130 kg
Weight notes	Fully assembled Actual weight may vary depending on configuration
Rack integration kit	Rack installation kit included (ca. 8.5kg)

Electrical values

Max. output of single power supply	2100 W
Power supply configuration note	up to 4x hot-plug power supply, 2x as standard
Rated voltage range	170 V - 240 V ±10%
Rated frequency range	47 Hz - 63 Hz
Rated current max.	11.2 A (per power cord at 240V)
Active power (max. configuration)	3800 W
Apparent power (max. configuration)	3850 VA
Heat emission	13680.0 kJ/h (12966.1 BTU/h)

Environmental

Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	70 dB (operating)
Sound power (LWAd; 1B = 10dB)	8.7 B (operating)
Air flow rate	Low Fan speed: ca. 500 m3/h High Fan speed: ca. 700 m3/h High Fan speed: ca. 800 m3/h

Environmental

Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Compliance

Germany	GS
Europe	CE Class A *
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI
Russia	GOST
Australia/New Zealand	C-Tick
Taiwan	BSMI
Saudi Arabia	SASO
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. * 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.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Server and Storage Blades pluggable into system unit front side

Product Model name	Product Type	Processor quantity support	Max. number per BX unit	Memory slots total	Supported capacity RAM (max.)
PRIMERGY BX620 S5	Dual Socket Server Blade (Intel) http://docs.ts.fujitsu.com/dl.aspx?id=ef5b1c88-78b4-4c00-a923-488be5866e1a	1 - 2	10	12	96 GB
PRIMERGY BX620 S6	Dual Socket Server Blade (Intel) http://docs.ts.fujitsu.com/dl.aspx?id=ef5b1c88-78b4-4c00-a923-488be5866e1a	1 - 2	10	12	192 GB
PRIMERGY SX650 Storage Blade	Storage Blade Disk http://docs.ts.fujitsu.com/dl.aspx?id=095dbb1b-5aa2-4064-bacc-1afff784c066		5		

Connection Blades (CB) / KVM components pluggable into system unit rear side

Connection type	Down-link ports	Up-link ports	Max. number per BX unit
FC Pass-Thru 4Gb 10/10 -	10 x 4 Gb FC	10 x 4Gbit FC (SFP)	Up to 2 (Bays: NET3/4)
Eth Pass-Thru 1Gb 10/10 -	10 x 1 Gb Eth	10 x 1Gbit Eth (RJ45)	Up to 4 (Bays: NET1/2/3/4)
Digital KVM Switch -	KVM	1 x keyboard (PS/2) 1 x mouse (PS/2) 1 x VGA (15 pin) 1 x 10/100 Mbit Eth (RJ45)	1
KVM Module -	KVM	1 x keyboard (PS/2) 1 x mouse (PS/2) 1 x VGA (15 pin)	1
FC Switch 4Gb 10/6 (SW4016) 12 ports available http://docs.ts.fujitsu.com/dl.aspx?id=15aecf39-682b-41aa-846b-12aace235650	10 x 4 Gb FC	6 x 1, 2, 4 Gbit FC (SFP)	Up to 2 (Bays: NET3/4)

Connection Blades (CB) / KVM components pluggable into system unit rear side

Connection type	Down-link ports	Up-link ports	Max. number per BX unit
FC Switch 4Gb 10/6 (SW4016) 16 ports available http://docs.ts.fujitsu.com/dl.aspx?id=15aecf39-682b-41aa-846b-12aace235650	10 x 4 Gb FC	6 x 1, 2, 4 Gbit FC (SFP)	Up to 2 (Bays: NET3/4)
Eth Switch 1Gb 10/6 http://docs.ts.fujitsu.com/dl.aspx?id=f05b5ccd-e6a4-4e38-849d-2007c4b31bcb	10 x 1 Gb Eth	6 x 1Gbit Eth (RJ45)	Up to 4 (Bays: NET1/2/3/4)
Eth Switch 1Gb 10/6+2 http://docs.ts.fujitsu.com/dl.aspx?id=f05b5ccd-e6a4-4e38-849d-2007c4b31bcb	10 x 1 Gb Eth	6 x 1Gbit Eth (RJ45) 1 x 10Gbit Eth (CX4) 1 x 10Gbit Eth (XFP)	Up to 4 (Bays: NET1/2/3/4)
Eth Switch 1Gb 30/12 http://docs.ts.fujitsu.com/dl.aspx?id=6a83dae8-4a02-4c7c-b524-b4709c1bc639	30 x 1 Gb Eth	12 x 1Gbit Eth (RJ45)	Up to 2 (Bays: NET1/2)
Eth IBP 1Gb 30/12 http://docs.ts.fujitsu.com/dl.aspx?id=9b8fbd9d-fd63-41bc-95ee-9fe2c5bae079	30 x 1 Gb Eth	12 x 1Gbit Eth (RJ45)	Up to 2 (Bays: NET1/2)
Eth Switch 1Gb 10/6 (CBS3040) http://docs.ts.fujitsu.com/dl.aspx?id=e0017a94-77bb-4f13-a333-82192e06c58e	10 x 1 Gb Eth	2 x 1Gbit Eth (RJ45) 4 x 1Gbit Eth (SFP)	Up to 4 (Bays: NET1/2/3/4)

Warranty

Standard Warranty	3 years
Service level	On-site Service (depending on country)

Maintenance and Support Services - the perfect extension

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	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY BX600 S3, 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/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY BX600 S3, 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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