

# DATA SHEET

## PRIMERGY BX600 S3

Issue: October 2009

### Advanced Blade Ecosystem - Ideal platform for dynamic data centers

The PRIMERGY BX Blade Servers are the ideal choice for the data center solutions of today and tomorrow. Our blade servers provide maximum performance and maximum redundancy, but with only minimum space requirements, low power consumption and a reduction in the time and effort required for cabling. The PRIMERGY BX system family is designed to share components between chassis thus enabling quick and easy reactions to changing business requirements. Storage and server blades can be added without any extra effort, as would be needed when cabling or adding management software. You can use the same applications, rely on the same server and storage components and establish connections to the same networks. The PRIMERGY BX Blade Servers are flexible and have complete control via a central administration instance that is redundant in design; they minimize administrative time and effort, freeing you of time-consuming administration tasks. Our build-to-order process ensures that only completely installed and previously tested solutions are supplied, which have been precisely adapted to individual requirements and which will grow with future business requirements.



#### PRIMERGY BX600 S3

The PRIMERGY Blade Ecosystem is the perfect choice for data center solutions with main demands for a reliable and stable platform, which supports state-of-the-art technology. The PRIMERGY BX600 Blade Server is a scalable 19-inch rack system with 7 height units and can be equipped with up to ten server blades. The great range of usable processor configurations enable the PRIMERGY BX600 Blade Server to meet a large number of requirements that are typical for data center applications. Ethernet and Fibre Channel networks can be accessed via 4 slots at the rear of the chassis. The PRIMERGY BX600 S3 is ideal for branch offices and upper midmarket companies who want to reduce their costs for power and cooling, as well as consolidate the previous IT infrastructure and thus reduce network and cable complexity in the data center.

MAIN FEATURES	BENEFITS
High scalability with a passive midplane with two redundant fabrics, up to four Connection blades, four hot-plug power supplies and two redundant, hot-plug management blades	Investment protection through continuity in the development of server-, connection-, storage blades and components
Compact, space-saving 7U chassis for mounting in a standard 19-inch rack	Integrated IT infrastructure to simplify the deployment, provisioning and managing servers, network and storage
Housing for up to 10 dual-socket server blades with Dual- and Quad-Core Intel® Xeon® and / or AMD Opteron™ Processors	High performance and flexibility through the possibility of combining different server blades in a chassis
Innovative Cool-safe™ design combined with ServerView power management software guaranteed an excellent concept for power and cooling	Energy-efficient operation reduces the load on the data center's cooling system and on your budget
State-of-the-art processor technology with the latest generation of Intel® Xeon® 5500 processors and high memory capacities (up to 96GB per server blade)	More performance with up to two Dual- and Quad-Core processors, more energy efficiency and lower cost to run the most demanding applications



## Technical details

### PRIMERGY BX600 S3

Housing type Rack

#### Enclosure

System unit type 7 U chassis for 19-inch Rack

Front bays 10 x for hot-plug Server or Storage Blades

Midplane high speed midplane with 2 redundant fabrics

Rear bays 1 x for standard KVM module or Digital KVM Switch Blade  
4 x for Connection Blades  
4 x for PSU

Management Blades 2 x redundant / hot-plug Management Blade as standard

Fan configuration 2 x redundant / hot plug fan units as standard

Fan notes Each fan unit consists 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

Management Blade type 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 side

#### Dimensions / Weight

Dimension (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  
Weight may vary depending on actual configuration

Rack integration kit Rack installation kit included (ca. 8.5kg)

#### Electrical values

Max. output of power supply 2100 W

Rated voltage range 170 - 240 V  $\pm 10\%$

Rated frequency range 50 - 60 Hz

Rated current max. 11.2 A (per power cord at 240V)

Active power max. (per system unit) 3800 W

Apparent power max. (per system unit) 3850 VA

Heat emission 13680.0 kJ/h (12969.3 BTU)

#### Environmental

Noise emission Measured according to ISO 7779 and declared according to ISO 9296

Sound pressure (LpAm) 70 dB (operating)

Sound power (LWA; 1B = 10dB) 8.7 B (operating)

Operating ambient temperature 10 - 35°C

Operating relative humidity 10 - 85 % (non condensing)

## Compliance

Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic 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.
Compliance link	<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 system unit	Permalink to data sheet
PRIMERGY BX620 S4	Dual Socket Server Blade (Intel)	1 - 2	10	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=7c39caad-6fc8-4f85-b2f4-b33c94e6b673">http://docs.ts.fujitsu.com/dl.aspx?id=7c39caad-6fc8-4f85-b2f4-b33c94e6b673</a>
PRIMERGY BX620 S5	Dual Socket Server Blade (Intel)	1 - 2	10	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=ef5b1c88-78b4-4c00-a923-488be5866e1a">http://docs.ts.fujitsu.com/dl.aspx?id=ef5b1c88-78b4-4c00-a923-488be5866e1a</a>
PRIMERGY BX630 S2	Scalable Dual / Quad Socket Server Blade (AMD)	1 - 2 or 1 - 4	10/5	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=548f6540-67cc-4051-8d2a-a92bceaa9d87">http://docs.ts.fujitsu.com/dl.aspx?id=548f6540-67cc-4051-8d2a-a92bceaa9d87</a>
PRIMERGY SX650 Storage Blade	Storage Blade Disk		5	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=095d9bb1b-5aa2-4064-bacc-1aff784c066">http://docs.ts.fujitsu.com/dl.aspx?id=095d9bb1b-5aa2-4064-bacc-1aff784c066</a>

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

Connection Blade type	Down-link ports	Up-link ports	Max. number per system unit	Permalink to data sheet
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	-
Eth IBP 1Gb 10/6	10 x 1 Gb Eth	6 x 1Gbit Eth (RJ45)	Up to 2 (Bays: NET3/4)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=3c2d2bb2-411b-44b0-8533-d0dd9660d2da">http://docs.ts.fujitsu.com/dl.aspx?id=3c2d2bb2-411b-44b0-8533-d0dd9660d2da</a>
Eth IBP 1Gb 30/12	30 x 1 Gb Eth	12 x 1Gbit Eth (RJ45)	Up to 2 (Bays: NET1/2)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=9b8fbd9d-fd63-41bc-95ee-9fe2c5bae079">http://docs.ts.fujitsu.com/dl.aspx?id=9b8fbd9d-fd63-41bc-95ee-9fe2c5bae079</a>
Eth Pass-Thru 1Gb 10/10	10 x 1 Gb Eth	10 x 1Gbit Eth (RJ45)	Up to 4 (Bays: NET1/2/3/4)	-
Eth Switch 10Gb 10/2 (SE)	10 x 10 Gb Eth	2 x 10Gbit Eth (X2-Cu, X2-FO)	Up to 2 (Bays: NET3/4)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=623f6a94-78b2-48b4-9259-90494f81d9d5">http://docs.ts.fujitsu.com/dl.aspx?id=623f6a94-78b2-48b4-9259-90494f81d9d5</a>

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

Connection Blade type	Down-link ports	Up-link ports	Max. number per system unit	Permalink to data sheet
Eth Switch 1Gb 10/6	10 x 1 Gb Eth	6 x 1Gbit Eth (RJ45)	Up to 4 (Bays: NET1/2/3/4)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=f05b5ccd-e6a4-4e38-849d-2007c4b31bcb">http://docs.ts.fujitsu.com/dl.aspx?id=f05b5ccd-e6a4-4e38-849d-2007c4b31bcb</a>
Eth Switch 1Gb 10/6 (CBS3040)	10 x 1 Gb Eth	2 x 1Gbit Eth (RJ45) 4 x 1Gbit Eth (SFP)	Up to 4 (Bays: NET1/2/3/4)	<a href="http://docs.fujitsu-siemens.com/dl.aspx?id=e0017a94-77bb-4f13-a333-82192e06c58e">http://docs.fujitsu-siemens.com/dl.aspx?id=e0017a94-77bb-4f13-a333-82192e06c58e</a>
Eth Switch 1Gb 10/6+2	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)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=f05b5ccd-e6a4-4e38-849d-2007c4b31bcb">http://docs.ts.fujitsu.com/dl.aspx?id=f05b5ccd-e6a4-4e38-849d-2007c4b31bcb</a>
Eth Switch 1Gb 30/12	30 x 1 Gb Eth	12 x 1Gbit Eth (RJ45)	Up to 2 (Bays: NET1/2)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=6a83dae8-4a02-4c7c-b524-b4709c1bc639">http://docs.ts.fujitsu.com/dl.aspx?id=6a83dae8-4a02-4c7c-b524-b4709c1bc639</a>
FC Pass-Thru 4Gb 10/10	10 x 4 Gb FC	10 x 4Gbit FC (SFP)	Up to 2 (Bays: NET3/4)	-
FC Switch 4Gb 10/6 (SW4016) 12 ports available	10 x 4 Gb FC	6 x 1, 2, 4 Gbit FC (SFP)	Up to 2 (Bays: NET3/4)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=15aecf39-682b-41aa-846b-12aace235650">http://docs.ts.fujitsu.com/dl.aspx?id=15aecf39-682b-41aa-846b-12aace235650</a>
FC Switch 4Gb 10/6 (SW4016) 16 ports available	10 x 4 Gb FC	6 x 1, 2, 4 Gbit FC (SFP)	Up to 2 (Bays: NET3/4)	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=15aecf39-682b-41aa-846b-12aace235650">http://docs.ts.fujitsu.com/dl.aspx?id=15aecf39-682b-41aa-846b-12aace235650</a>
KVM Module	KVM	1 x keyboard (PS/2) 1 x mouse (PS/2) 1 x VGA (15 pin)	1	-

**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
Spare Parts availability	5 years
Service Weblink	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:

<http://ts.fujitsu.com/aboutus>

Take back and Recycling information:

<http://ts.fujitsu.com/recycling>

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