THE POSSIBILITIES ARE INFINITE



DATA SHEET

PRIMERGY BX900 S1

- The Dynamic Cube

Issue: June 2009

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 is 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 BX900 S1

The PRIMERGY BX900 – the Dynamic Cube – is a complete dynamic server infrastructure in a single chassis. The Blade Server can be dynamically adapted to different IT requirements, thereby reducing costs while increasing your IT agility. The PRIMERGY BX900 can accommodate up to 18 serverblades in a 10U chassis, providing class-leading density for multiple application services in a compact form-factor. Using Cool Safe™, our trademarked cooling concept, combined with high-efficiency power supplies and the embedded ServerView Power Manager software, it delivers truly dynamic power and cooling capabilities that save you money. Equipped with the latest Intel Xeon 5500 processor blades, large memory capacities, and state-of-the-art I/O performance, the PRIMERGY BX900 is optimized for any application virtualization scenario, and with the ability to flexibly stack up to four BX900 chassis in a common management and I/O administrative domain, provides investment protection as your business grows.





MAIN FEATURES	BENEFITS
Dynamic Power & Cooling : Using our Cool-safe™ cooling concept, combined with over 90% efficient power supplies and the embedded ServerView Power Management software, it ensures real dynamic power & cooling.	Save money on your energy bill
Dynamic Virtualization : Equipped with the Intel® Xeon® 5500 series processor (Nehalem-EP), very large memory capacities and state of the art I/O performance, the PRIMERGY BX900 is optimized for any virtualization scenario.	Run more Virtual Machines than ever with zero hassle increasing your IT performance.
Dynamic High Availability : Due to its fully redundant design (MMB's, NIC's, Fans, PSU's) and in combination with ServerView Resource Coordinator VE, the PRIMERGY BX900 can completely protect itself against any possible failure and has the fastest automatic recovery.	The best uptime and highest server protection.
Dynamic Scalability: With space for up to 18 Server Blades, 8 Connection Blades, 6 power supply units and 2 management boards in a 10U high chassis, the PRIMER-GY BX900 has the highest density. Combined with its stackability the system allows the most flexible scaling.	Complete investment protection and flexible growth scenarios.



Technical details

PRIMERGY BX900 S1

Enclosure			
System unit type	10 U chassis for 19-inch Rack		
Front bays	18 half height or 9 full height bays for Server or Storage Blades		
Midplane	High speed midplane with 4 redundant fabrics		
Rear bays	8 x for Connection Blades (2 Connection Blades per fabric) 6 x for PSU modules		
Management Blades	1 x hot-plug Management Blade as standard, redundant Management Blade as option		
Fan configuration	Two fan units per PSU module (2 fans per fan unit)		
Power supply configuration	Up to 6x hot-plug power supply modules, 3x as standard (4th to 6th power supply module are neccessary for redundancy, depending on system configuration)		
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)		
Management Blade			
Management Blade type	BX900 MMB S1		
LAN / Ethernet (RJ-45)	2 x 1Gb Ethernet		
Serial 1 (9-pin)	1 x RS-232-C		
USB ports	2 x (at rear side of the system)		
Dimensions / Weight			
Dimension (W x D x H)	445 x 778 x 438 mm		
Height Unit Rack	10 U		
19" rackmount	Yes		
Weight	Up to 191 kg		
Weight notes	Fully assembled Weight may vary depending on actual configuration		
Rack integration kit	Included		

Electrical values							
Max. output of power sup	ply	1165 W / 2685 V	W (100 - 240V)				
Rated voltage range		100 - 240 V					
Rated frequency range		50 - 60 Hz					
Rated current max.		65A / 29A (100	- 240V)				
Electrical value notes			Active power max. value depends on system configuration. For details see Power Configuration Tool.				
		3 power supply	cables (16A IEC320 C19 -	> 16A IEC C20) are part o	of the standard delivery		
Environmental							
Noise emission	Measured a		rding to ISO 7779 and dec	lared according to ISO 92	96		
Sound pressure (LpAm)	up to 64 dB(A)		(operating)				
Sound power (LWAd; 1B	B = 10dB) 8.6 B (operatin		g)				
Noise notes / description	Sound power /		pressure values are under	investigation			
Operating ambient temper	erature	5 - 35°C					
Operating relative humidi	ty	10 - 85 % (non	condensing)				
Compliance							
Germany		GS					
Europe		CE					
USA/Canada		ULc/us FCC Class A					
Global		CB					
0.000		RoHS					
		WEEE					
Japan		VCCI class A					
Australia/New Zealand	C-Tick						
Taiwan	BSMI						
Compliance notes		North America.	al compliance with the safe National approvals require an be applied for on reque	d in order to satisfy statute			
Compliance link			su.com/sites/certificates/d				
Server and Storage Blac Product Model name	des plug Product		Processor quantity	Max. number per sys-	Permalink to data		
PRIMERGY BX920 S1	Dual So Blade (li	cket Server ntel)	support 1 - 2	tem unit 18	sheet http://docs.ts.fujitsu.com/ dl.aspx?id=92c6a7c8- 5e0c-4668-9921- 386af3df92db		
PRIMERGY SX940 S1	Storage Blade Disk			6	http://docs.ts.fujitsu.com/dl.aspx?id=cabbdb01-8a40-44dd-af4d-50bc074c0ec8		
Connection Blades (CB Connection Blade type			unit rear side Up-link ports	Max. number per system unit	Permalink to data sheet		
Eth Switch/IBP 1Gb 36/12	36 x 1 Gb Eth		8 x RJ45, 4 x SFP	6 (CB Slot 1/2 3/4 5/6)	http://docs.ts.fujitsu.com/ dl.aspx?id=698e96b8- f040-4cd5-93ca- c37d97d07868		
FC Switch 8Gb Brocade 14 Port	: 18 x 8 Gb FC		8 x 2Gb / 4Gb / 8Gb FC	4 (CB Slot 3/4 5/6)			
FC Switch 8Gb Brocade 26 Port	∍ 18 x 8 Gb FC		8 x 2Gb / 4Gb / 8Gb FC	4 (CB Slot 3/4 5/6)	http://docs.ts.fujitsu.com/ dl.aspx?id=a499f935- abd8-47e3-b836- f16da5d81c70		
FC Switch 8Gb Brocade 26 Port Enterprise	e 18 x 8 Gb FC		8 x 2Gb / 4Gb / 8Gb FC	4 (CB Slot 3/4 5/6)			
Warranty							
Standard Warranty		3 years					

Warranty				
Maintenance and Support Services - the perfect extension				
Recommended Service	7x24, Onsite Response Time: 4h			
Spare Parts availability	5 years			
Service Weblink	http://ts.fujitsu.com/Supportservice			

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230: http://ts.fujitsu.com/aboutus
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June 2009