

# PRIMERGY Servers Portfolio

Dynamic Infrastructures  
for workgroup, datacenter  
and cloud computing

FUJITSU



shaping tomorrow with you

# Higher IT efficiency and reduced total cost of ownership

## PRIMERGY Micro, Tower and Rack Server



### PRIMERGY Industry Standard Server

Model	PRIMERGY TX100 S2	PRIMERGY TX120 S2	PRIMERGY TX150 S7	PRIMERGY TX200 S6	PRIMERGY TX300 S6
<b>Characteristics</b>	Enter the world of servers - now with 0-Watt functionality	The leading office server: space saving, energy saving, whisper-quiet.	The one-processor tower server - maximized!	Well-balanced price- performance	No compromise tower server
<b>Type</b>	Mono socket economy tower	Mono socket tower server	Mono socket tower server	Dual socket tower server	Dual socket tower server
<b>Height units</b>	-	-	5 U when used in a rack	5 U when used in a rack	4 U when used in a rack
<b>Processor</b>	Intel® Xeon®, Intel® Core™i3, Intel® Pentium®, Intel® Celeron®	Intel® Core™2 Duo	Intel® Xeon®, Intel® Pentium®, Intel® Core™ i3	Intel® Xeon® 5500/5600 series	Intel® Xeon® 5500/5600 series
<b>Memory capacity</b>	1 GB - 16 GB, 4 DIMM (DDR3)	1 GB - 16 GB, 4 DIMM (DDR2)	1 GB - 32 GB, 6 DIMM (DDR3)	2 GB - 96 GB, 12 DIMM (DDR3)	2 GB - 192 GB, 18 DIMM (DDR3)
<b>Hard disk configuration</b>	2 x 3.5-inch or 4 x 3.5-inch (depends on chosen base unit)	4 x 2.5-inch	4 x 3.5-inch or 8 x 2.5-inch optional	4 x 3.5-inch (6 optional) or 8 x 2.5-inch (16 optional)	6 x 3.5-inch (8 optional) or 12 x 2.5-inch (20 optional)
<b>Hard disk hot-plug</b>	HDD SATA 3.5-inch 160 GB - 2 TB (non hot-plug)	HDD SATA 2.5-inch 160 - 500 GB HDD SAS 2.5-inch 73 - 300 GB SSD SATA 2.5-inch 32 - 64 GB	HDD SATA 3.5-inch 160 GB - 2 TB HDD SAS 2.5-inch 73 - 300 GB HDD SAS 3.5-inch 146 - 600 GB HDD SATA 2.5-inch 160 - 500 GB SSD SATA 2.5-inch 32 - 64 GB	HDD SATA 3.5-inch 160 GB - 2 TB HDD SAS 3.5-inch 146 - 600 GB HDD SATA 2.5-inch 160 - 500 GB HDD SAS 2.5-inch 73 - 300 GB SSD SATA 2.5-inch 32 - 64 GB	HDD SATA 3.5-inch 160 GB - 2 TB HDD SAS 3.5-inch 146 - 600 GB HDD SATA 2.5-inch 160 - 500 GB HDD SAS 2.5-inch 73 - 300 GB SSD SATA 2.5-inch 32 - 64 GB
<b>iRMC</b>	no	yes (advanced pack opt.)	yes (advanced pack opt.)	yes (advanced pack opt.)	yes (advanced pack opt.)
<b>RAID 0, 1   5, 6</b>	✓   optional	✓   optional	✓   optional	✓   optional	✓   optional
<b>Active power (max.)</b>	171 W	120 W	258 W	461 W	560 W
<b>I/O slots</b>	2 x PCIe Gen2 x8, 1 x PCIe Gen2 x4, 1 x PCI	3 x PCIe x8, 1 x PCI	2 x PCIe Gen2 x1, 1 x PCIe Gen2 x4, 2 x PCIe Gen2 x8, 1 x PCI	2 x PCIe Gen2 x4, 2 x PCIe Gen2 x8, 1 x PCIe x4, 1 x PCI	5 x PCIe Gen2 x4, 2 x PCIe Gen2 x8

### PRIMERGY Industry Standard Server

Model	PRIMERGY RX100 S6	PRIMERGY RX200 S6	PRIMERGY RX300 S6	PRIMERGY RX600 S5	PRIMERGY RX900 S1
<b>Characteristics</b>	Cost optimized and highly modular multi usage rack server	Maximum productivity at minimum space	The virtualization powerhouse	Scalability and balanced composition ensure your growth	It starts where 4 socket servers end up!
<b>Type</b>	Mono socket rack server	Dual socket rack server	Dual socket rack server	Quad socket rack server	Eight socket rack server
<b>Height units</b>	1 U	1 U	2 U	4 U	8 U
<b>Processor</b>	Intel® Xeon® 3400 series, Intel® Pentium® Dual-Core, Intel® Core™ i3, Intel® Celeron®	Intel® Xeon® 5500/5600 series	Intel® Xeon® 5500/5600 series	Intel® Xeon® 7500 series	Intel® Xeon® 7500 series
<b>Memory capacity</b>	1 GB - 32 GB, 4 DIMM (DDR3)	2 GB - 192 GB, 12 DIMM (DDR3)	2 GB - 192 GB, 18 DIMM (DDR3)	8 GB - 1024 GB, 64 DIMM (DDR3)	8 GB - 2048 GB, 128 DIMM (DDR3)
<b>Hard disk configuration</b>	2 x 3.5-inch or 4 x 2.5-inch	6 x 2.5-inch or 8 x 2.5-inch	6 x 3.5-inch or 8 x 2.5-inch or 12 x 2.5-inch	8 x 2.5-inch	8 x 2.5-inch
<b>Hard disk hot-plug</b>	HDD SATA 3.5-inch 160 GB - 2 TB HDD SAS 3.5-inch 146 - 600 GB HDD SATA 2.5-inch 160 - 500 GB HDD SAS 2.5-inch 146 - 600 GB SSD SATA 2.5-inch 32 - 64 GB	HDD SATA 2.5-inch 160 - 500 GB HDD SAS 2.5-inch 146 - 600 GB SSD SATA 2.5-inch 32 - 64 GB	HDD SATA 3.5-inch 160 GB - 2 TB HDD SAS 3.5-inch 146 - 600 GB HDD SATA 2.5-inch 160 - 500 GB HDD SAS 2.5-inch 146 - 600 GB SSD SATA 2.5-inch 32 - 64 GB	HDD SATA 2.5-inch 160 - 500 GB HDD SAS 2.5-inch 146 - 600 GB SSD SATA 2.5-inch 32 - 64 GB	HDD SAS 2.5-inch 146 - 600 GB SSD SATA 2.5-inch 32 - 64 GB
<b>iRMC</b>	yes (advanced pack opt.)	yes (advanced pack opt.)	yes (advanced pack opt.)	yes (advanced pack opt.)	yes (advanced pack opt.)
<b>RAID 0, 1   5, 6</b>	✓   optional	✓   optional	✓   optional	optional   optional	optional   optional
<b>Active power (max.)</b>	288 W	487 W	504 W	1950 W	2460 W
<b>I/O slots</b>	1 x PCIe Gen2 x4, 2 x PCIe Gen2 x8	1 x PCIe Gen2 x4, 2 x PCIe Gen2 x8	5 x PCIe Gen2 x4, 2 x PCIe Gen2 x8	3 x PCIe Gen2 x4, 4 x PCIe Gen2 x8, 1 x PCIe Gen2 x16, 2 x PCIe x4, thereof 2 x hot-plug	2 x PCIe Gen2 x4, 14 x PCIe Gen2 x8, thereof 2 x hot-plug

# Dynamic Infrastructures for datacenters

## PRIMERGY Blade Server



PRIMERGY Industry Standard Server



Model	PRIMERGY BX920 S2	PRIMERGY BX922 S2	PRIMERGY BX924 S2	PRIMERGY BX960 S1	PRIMERGY SX910 S1	PRIMERGY SX940 S1	PRIMERGY SX960 S1
<b>Characteristics</b>	Universal dual socket Server Blade with high computing and I/O performance in a small form factor	Future-oriented Server Blade with all the prerequisites for virtualization environments	Server Blade with virtualization fitness at all levels, be it compute power or I/O throughput	Dynamics paired with high scaling	Easy and fast data backup	For easy and cost effective server consolidation	For easy and cost effective direct attached and shared storage solutions
<b>Type</b>	Dual socket Server Blade	Dual socket Server Blade	Dual socket Server Blade	Quad socket Server Blade	Storage Blade Tape	Storage Blade Disk	Storage Blade Disk
<b>Max. number per BX900</b>	18	18	18	9	6	6	2
<b>Max. number per BX400</b>	8	8	8	-	4	4	2
<b>Processor</b>	Intel® Xeon® processor, 5500 / 5600 series	Intel® Xeon® processor, 5500 / 5600 series	Intel® Xeon® processor, 5500 / 5600 series	Intel® Xeon® processor, 7500 series	-	-	-
<b>Memory capacity</b>	2 GB - 144 GB, 9 DIMM (DDR3)	2 GB - 192 GB, 12 DIMM (DDR3)	1 GB - 288 GB, 18 DIMM (DDR3)	8 GB - 512 GB, 32 DIMM (DDR3)	-	-	-
<b>Hard disk hot-plug / Tape drives</b>	max. 2 x HDD SAS 2.5-inch 73 - 300 GB HDD SATA 2.5-inch 160 - 500 GB  SSD SATA 2.5-inch 32 - 64 GB	max. 2 x HDD SATA 2.5-inch 160 0 GB, (non hot-plug)  SSD SATA 2.5-inch 32 - 64 GB, (non hot-plug)	max. 2 x SSD SATA 2.5-inch 32 - 64 GB, (non hot-plug)	max. 2 x SSD SATA 2.5-inch 32 - 64 GB, (non hot-plug)	max. 1 x SAS 3Gb/s LTO3HH Ultrium, 400 GB, 60 MB/s  LTO4HH Ultrium, 800 GB, 120 MB/s  LTO5HH Ultrium, 1500 GB, 140 MB/s	max. 4 x HDD SAS 2.5-inch 146 - 600 GB  HDD SATA 2.5-inch 160 - 500 GB  SSD SATA 2.5-inch 32 - 64 GB	max. 10 x HDD SAS 2.5-inch 146 - 600 GB  HDD SATA 2.5-inch 160 - 500 GB  SSD SATA 2.5-inch 32 - 64 GB
<b>iRMC</b>	yes (advanced pack incl.)	yes (advanced pack incl.)	yes (advanced pack incl.)	yes (advanced pack incl.)	-	-	-
<b>RAID 0, 1   5, 6</b>	✓   -	✓   -	✓   -	✓   -	-	✓   ✓	✓   ✓
<b>Ethernet controller onboard</b>	4 x Gbit Ethernet via midplane at Ethernet Connection Blade	4 x Gbit Ethernet via midplane at Ethernet Connection Blade	2 x 10 Gbit Ethernet via midplane at Ethernet Connection Blade	4 x 10 Gbit Ethernet via midplane at Ethernet Connection Blade	-	-	-
<b>Mezzanine cards</b>	2 x PCIe Gen2 x8 (Quad 1Gbit Eth, Dual 10Gbit Eth, Dual 8Gbit FC, Dual 40Gbit IB, SAS 2.0 RAID (Cache, BBU), 10Gbit CNA)	2 x PCIe Gen2 x8 (Quad 1Gbit Eth, Dual 10Gbit Eth, Dual 8Gbit FC, Dual 40Gbit IB, 10Gbit CNA)	2 x PCIe Gen2 x8 (Quad 1Gbit Eth, Dual 10Gbit Eth, Dual 8Gbit FC, Dual 40Gbit IB, 10Gbit CNA)	4 x PCIe Gen2 x8 (Quad 1Gbit Eth, Dual 10Gbit Eth, Dual 8Gbit FC, Dual 40Gbit IB, 10Gbit CNA)	-	-	-

Model	PRIMERGY BX400 S1	PRIMERGY BX900 S1
<b>Characteristics</b>	Blade Made Easy. Tailor-made performance for midmarket companies	The Dynamic Cube - Complete dynamic server infrastructure in a single chassis
<b>System unit type</b>	6 U chassis for 19-inch rack or floorstand version	10 U chassis for 19-inch rack
<b>Dimensions (WxDxH)</b>	445 x 785 x 267 mm	445 x 778 x 438 mm
<b>Front bays</b>	8 half height bays for server or storage blades	18 half height or 9 full height bays for server or storage blades
<b>Midplane</b>	High speed midplane with 3 redundant fabrics	High speed midplane with 4 redundant fabrics
<b>Rear bays</b>	4 x for Connection Blades 4 x for PSU-Fan modules 2 x for Management Blades	8 x for Connection Blades 6 x for PSU-Fan modules 2 x for Management Blades
<b>Management Blades</b>	1 x hot-plug Management Blade as standard, redundant Management Blade as option	1 x hot-plug Management Blade as standard, redundant Management Blade as option
<b>Fan configuration</b>	Up to 3 hot-plug, redundant fan modules	Up to 3 hot-plug, redundant fan modules
<b>Power supply configuration</b>	Up to 4 x hot-plug power supply modules (1 x as standard)	Up to 6 x hot-plug power supply module, 3 x as standard (4th to 6th power supply module necessary for redundancy, depending on system configuration)
<b>Connection Blade type</b>	FC switch 8 Gb Brocade 14 and 26 port and 26 port Enterprise edition Eth switch/IBP 1 Gb 18/6 Eth switch/IBP 1 Gb 36/12 Eth switch/IBP 1 Gb 36/8+2 Eth switch/IBP 10 Gb 18/8 IB switch 40 Gb 18/18 Eth Pass Thru 1/10 Gb 18 port FC Pass Thru 8 Gb 18 port	FC switch 8 Gb Brocade 14 and 26 port and 26 port Enterprise edition Eth switch/IBP 1 Gb 18/6 Eth switch/IBP 1 Gb 36/12 Eth switch/IBP 1 Gb 36/8+2 Eth switch/IBP 10 Gb 18/8 (DCB) IB switch 40 Gb 18/18 Eth Pass Thru 1/10 Gb 18 port FC Pass Thru 8 Gb 18 port

# The Cool-Central™ architecture

## PRIMERGY scale-out server



### Windows Server® 2008 R2

Fujitsu PRIMERGY servers and Microsoft® Windows Server®

<b>PRIMERGY Industry Standard Server</b>	
<b>Model</b>	<b>PRIMERGY CX1000 S1</b>
<b>Characteristics</b>	Cloud server infrastructure platform for Scale-Out data centers Scale Big - Spend Small
<b>System unit type</b>	Cloud server rack infrastructure
<b>Fan configuration</b>	Cooling unit with two centralized redundant fans produces low pressure plenum in a chimney area at rear side.
<b>Cooling</b>	The innovative shared cooling architecture "Cool-Central™" provides new economics for scale-out data centers by significant reduction of energy consumption coupled with dramatic savings in data center space.
<b>Height unit rack</b>	43 U
<b>Dimension notes</b>	Rack 38 U + 5 U cooling unit; Rack and cooling unit 250 kg; CX1000 incl. 38x CX120 + 5x IP switch and all cabling max weight 470kg
<b>Number of nodes</b>	38
<b>Weight (packed)</b>	500 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Dimensions (WxDxH)</b>	700 x 850 x 2083 mm
<b>Active power min.</b>	6300 W
<b>Active power max.</b>	14000 W
<b>Power supply configuration note</b>	Each CX120 and CX122 server tray has its own PSU with 350W max.

<b>Model</b>	<b>PY CX120 S1</b>	<b>PY CX122 S1</b>
<b>Characteristics</b>	Cloud Server unit for PRIMERGY CX1000	
<b>Type</b>	Dual socket cloud node	
<b>Height units</b>	1 U	
<b>Processor(s)</b>	Intel® Xeon® processor, 5500/5600 series	
<b>Memory capacity</b>	16 GB - 64 GB 8 DIMM (DDR3)	12 GB - 144 GB 18 DIMM (DDR3)
<b>Hard disk</b>	max. 2x HDD SATA 2.5-inch 160 - 500 GB (non hot-plug)	
<b>iRMC</b>	<b>BMC</b>	yes (advanced pack opt.)
<b>RAID 0, 1   5, 6</b>	✓   -	
<b>Active power max.</b>	286 W (per system unit)	350 W (per system unit)

	OEM	RDK	MX130 S1	TX100 S2	TX120 S2	TX150 S1	TX200 S6	TX300 S6	RX100 S6	RX200 S6	RX300 S6	RX600 S5	RX800 S1	BX920 S2	BX922 S2	BX924 S2	BX960 S1	CX120 S1	CX122 S1
<b>Windows Server 2008 R2 Foundation</b>	✓	✓	✓	✓	✓	✓			✓										
<b>Windows Server 2008 R2 Standard</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
<b>Windows Server 2008 R2 Enterprise</b>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Windows Server 2008 R2 Datacenter</b>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>Windows Small Business Server 2008 Standard</b>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓								
<b>Windows Small Business Server 2008 Premium</b>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓								
<b>Windows Storage Server 2008 Standard</b>	✓										planned			✓	✓	planned			
<b>Windows HPC Server 2008 R2 Suite</b>	✓	✓						✓		✓	✓				✓	✓		✓	✓
<b>System Center Essentials 2010</b>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>System Center Virtual Machine Manager 2008 R2 WGE</b>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	?
<b>CAL/RDS/ML for Windows Server, SBS, EBS and SCE</b>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	?

For businesses focused on providing their organizations with innovative capabilities at low cost, Windows Server® 2008 R2 provides a productive server platform because it offers cost-effective virtualization, power saving capabilities, and a superior experience for end users.

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