

Data Sheet Fujitsu PRIMERGY RX200 S7 Dual socket 1 U rack server

Maximum productivity in a 1U housing

The PRIMERGY RX Rack Server family is the perfect platform to form dynamic infrastructures for your business processes today and in the coming decade. You will thus benefit several times over from our recognized experience in optimized data center technology and our innovative strength in developing energy-efficient and cost/ performance-optimized rack systems for universal use. PRIMERGY rack servers, built upon industry standards, focus from a functional viewpoint on core features: energy efficiency, reliability, optimized for virtualization, ease of operation and maintenance, flexibility for your future. And thus they notably meet your requirements for outstanding cost efficiency. Optimal operating costs and long-term usability comply with the IT quality required by your customers. Our responsibility goes way beyond the hardware as our tailor-made service packages mean that you can rely on the best support for your IT during its whole lifecycle.

PRIMERGY RX200 S7

The Fujitsu PRIMERGY RX200 S7 is a rack server that provides high performance, expandability and energy efficiency in 1U space saving housing. Thus, the PRIMERGY RX200 S7 is ideal for virtualization and cloud, small databases as well as for high performance computing thanks to the top performance of the new Intel® Xeon® E5 product family. Moreover, the RX200 S7 delivers a great expandability, by supporting up to 768 GB of memory, eight hard disk drives and costsaving Modular LAN options to ensure future requirements are met and budgets are saved. Thanks to the highly efficient power supply units with an efficiency rate of 94% and the new power management this will result in lower operational

costs.













integration packs allow a seamless and easy integration in widely-

used enterprise management systems.

Features and Benefits

Main Features Benefits Meet today's demand and be prepared for future requirements ■ Intel Xeon E5-2600 product family with up to 8 core processors and Increased performance of up to 80% compared to the previous. Turbo Boost 2.0 generation Optimized for business applications, cloud and virtualization Lifecycle investment protection Expanded scalability of up to 24 DIMMs with 768 GB memory, up to ■ Maximum productivity and scalability in space saving 1U housing to 8 hard disk drives and 4 PCIe slots Gen3 meet future demand ■ New modular concept for the base unit as well as a choice for LAN ■ Individual and cost-saving configuration of the server according controller, RAID controller and power supplies to the need of today with upgrade option to meet the demand of ■ Upgrade kits for hard disk drives and CPU available tomorrow Upgrade kits save budget as the system can be upgraded when the company grows and thus protect the investment Cost efficient operations ■ Simplified power management with profiles for 'minimum power' Simplified and comprehensive powermanagement that results with the high efficient power supplies in significant savings and 'low-noise' ■ 2 hot-plug PSU with 94% efficiency Fujitsu ServerView Suite provides all the functions for fail-safe, ■ Fujitsu ServerView Suite offers tools for installation and deployment, flexible and automated 24x7 server operations and improves endpermanent status monitoring and control. A wide range of user productivity via intelligent and innovative system management

solutions.

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Technical details

PRIMERGY RX200 S7			
Housing types	Rack	Rack	
Storage drive architecture	4x 2.5" SAS/SATA	8x 2.5" SAS/SATA	
Power supply	Hot-plug	Hot-plug	
Mainboard			
Mainboard type	D3032		
Chipset	Intel® C600 (Intel® Patsburg A)		
Processor quantity and type	1 - 2 x Intel® Xeon® processor E5-260	O product family	
Processor	Intel® Xeon® processor E5-2603		
	(4C/4T, 1.80 GHz, TLC: 10 MB, Turbo:	No, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)	
	Intel® Xeon® processor E5-2609		
	(4C/4T, 2.40 GHz, TLC: 10 MB, Turbo:	No, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)	
	Intel® Xeon® processor E5-2620		
	(6C/12T, 2.00 GHz, TLC: 15 MB, Turbo	: Yes, 7.2 GT/s , Mem bus: 1333 MHz, 95 W)	
	Intel® Xeon® processor E5-2630		
		: Yes, 7.2 GT/s , Mem bus: 1333 MHz, 95 W)	
	Intel® Xeon® processor E5-2630L		
		: Yes, 7.2 GT/s , Mem bus: 1333 MHz, 60 W)	
	Intel® Xeon® processor E5-2637		
		es, 8.0 GT/s , Mem bus: 1600 MHz, 80 W)	
	Intel® Xeon® processor E5-2640		
		: Yes, 7.2 GT/s , Mem bus: 1333 MHz, 95 W)	
	Intel® Xeon® processor E5-2643		
		Yes, 8.0 GT/s , Mem bus: 1600 MHz, 130 W)	
	Intel® Xeon® processor E5-2650		
		: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 95 W)	
	Intel® Xeon® processor E5-2650L		
		: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 70 W)	
	Intel® Xeon® processor E5-2660		
	·	: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 95 W)	
	Intel® Xeon® processor E5-2665		
		: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 115 W)	
	Intel® Xeon® processor E5-2667		
		: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 130 W)	
	Intel® Xeon® processor E5-2670		
		: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 115 W)	
	Intel® Xeon® processor E5-2680		
		: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 130 W)	
	Intel® Xeon® processor E5-2690		
	(8C/16T, 2.90 GHz, TLC: 20 MB, Turbo	: Yes, 8.0 GT/s , Mem bus: 1600 MHz, 135 W)	
Memory slots	24 (12 DIMMs per CPU, 4 channels w	ith 3 slots per channel)	
Memory slot type	DIMM (DDR3)		
Memory capacity (min max.)	2 GB - 768 GB		
Memory protection	Advanced ECC		
	Memory Scrubbing		
	SDDC (Chipkill™)		
	Hot-spare memory support		
	Rank sparing memory support		
	Memory Mirroring support (as soon a	s released)	

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Memory notes		
	Max. 8 memory modules/CPU with UDIMM (low voltage or standard) OR quad-rank RDIMM; max. 12 memory modules/CPU with single or dual-rank RDIMM or single, dual-rank or quad-rank Load-Reduced (LR) DIMM. Memory Mirroring with identical modules in both channel pairs of a bank (4 modules per bank), Rank sparing or	
	Performance Mode with identical modules in all four channels (4 modules per bank).	
Memory options	4 GB (1 module(s) 4 GB) DDR3 LV, registered, ECC, 1333 MHz, PC3-10600, DIMM	
	4 GB (1 module(s) 4 GB) DDR3 LV, registered, ECC, 1600 MHz, PC3-12800, DIMM	
	8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1333 MHz, PC3-10600, DIMM	
	8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1600 MHz, PC3-12800, DIMM	
	16 GB (1 module(s) 16 GB) DDR3 LR LV, registered, ECC, 1333 MHz, PC3-10600, LRDIMM	
	16 GB (1 module(s) 16 GB) DDR3 LV, registered, ECC, 1600 MHz, PC3-12800, DIMM	
	32 GB (1 module(s) 32 GB) DDR3 LR LV, registered, ECC, 1333 MHz, PC3-10600, LRDIMM	
Memory options	2 GB (1 module(s) 2 GB) DDR3 LV, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM	
	4 GB (1 module(s) 4 GB) DDR3 LV, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM	
Interfaces		
USB ports	6 x USB 2.0 (2x front, 3x rear, 1x uSSD)	
Graphics (15-pin)	2 x VGA (thereof 1x front optional)	
LAN / Ethernet	2 x Gbit/s Ethernet (RJ45) with upgrade options for additional 2x1 Gbit/s (RJ45), 4x 1 Gbit/s (RJ45) or 2x 10 Gbit/s (SFP+)	
Service LAN (RJ45)	1 x dedicated management LAN port for iRMC S3 (10/100/1000 Mbit/s)	
	Service LAN traffic can be switched to shared onboard Gbit LAN port	
	or optional Modular LAN 2x10Gbit controller	
	Front management LAN port as option	
Status LEDs	System status (orange / yellow)	
	Identification (blue)	
	Hard disks access (green)	
	Power (amber / green) At system rear side:	
	System status (orange / yellow)	
	Identification (blue)	
Onboard or integrated Controller	Identification (blue) LAN connection (green)	
	Identification (blue) LAN connection (green) LAN speed (green / yellow) 4 port for internal 3G SATA and SAS (as upgrade option "Patsburg B") for HDDs with RAID 0/1/10 (Intel C600)	
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General system information		
Fan configuration	redundant / hot-plug	
Fan notes	4 + 2 double-fans for 2 CPU configuration	
Operating panel		
Operating buttons	On/off switch	
	Reset button	
	NMI button	
	ID button	
Status LEDs	System status (orange / yellow)	
	Identification (blue) Hard disks access (green)	
	Power (amber / green)	
	At system rear side:	
	System status (orange / yellow)	
	Identification (blue)	
	LAN connection (green)	
	LAN speed (green / yellow)	
BIOS		
BIOS features	ROM based setup utility	
	Recovery BIOS	
	BIOS settings save and restore	
	Local BIOS update from USB device	
	Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager	
	SMBIOS V2.4	
	Remote PXE boot support	
	Remote iSCSI boot support	
Operating Systems and Virtualization S	Software	
Certified or supported operating	Microsoft® Hyper-V™ Server 2008 R2	
systems and virtualization software	Microsoft® Windows Server® 2008 R2 Datacenter	
,	Microsoft® Windows Server® 2008 R2 Enterprise	
	Microsoft® Windows Server® 2008 R2 Standard	
	Microsoft® Windows® Web Server 2008 R2	
	Microsoft® Windows HPC Server® 2008 R2 Suite	
	Microsoft® Windows® Small Business Server 2011 Premium Add-On	
	Microsoft® Windows® Small Business Server Standard 2011	
	Microsoft® Windows® Server 2008 Datacenter	
	Microsoft® Windows® Server 2008 Enterprise	
	Microsoft® Windows® Server 2008 Standard	
	Microsoft® Windows® Web Server 2008	
	VMware vSphere™ 5.0 Embedded	
	VMware vSphere™ 5.0	
	VMware vSphere™ 4.1	
	VMware vSphere™ 4.1 Embedded	
	VMware vSphere™ 4.1 Installable	
	Novell® SUSE Linux Enterprise Server 11	
	Novell® SUSE Linux Enterprise Server 10	
	Novell® SUSE Linux Enterprise Server 10 with XEN	
	Red Hat® Enterprise Linux 6	
	Red Hat® Enterprise Linux 5	
	Red Hat® Enterprise Linux 5 with XEN	
	Citrix® XenServer®	
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421	
Operating system notes	Support of other Linux derivatives on demand	

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Sorver Management		
Server Management Standard	ServerView Suite - Deploy	
Standard	SV Installation Manager	
	SV Scripting Toolkit	
	SV Deployment Manager (30-day trial version)	
	ServerView Suite - Control	
	SV Operations Manager incl. PDA and ASR & R	
	(Prefailure and Analysis; Automatic Server Recovery and Restart)	
	SV Performance Management	
	SV Power Management	
	SV RAID Manager	
	ServerView Suite - Maintain	
	SV Remote Management (iRMC)	
	SV Update Management (BIOS, Firmware, Windows Drives and SV Agents) SV Asset Management	
	SV Asset Management SV Online Diagnostics	
	ServerView Suite - Integrate	
	SV Integration packs e.g. for Microsoft System Center, Nagios, HP, SIM, HP NNM, IBM Tivoli, Altiris	
	Deployment Solutions and others	
Option	ServerView Suite - Deploy	
•	SV Deployment Manager (full version)	
	ServerView Suite - Maintain	
	iRMC Advanced Pack incl. Advanced Video Redirection (AVR) and Remote Storage	
	ServerView Suite - Dynamize	
	SV Virtual-IO Manager (VIOM)	
	SV Resource Orchestrator Virtual Edition (ROR VE)	
	SV Resource Orchestrator Cloud Edition (ROR CE)	
	ServerView Suite - Integrate SV Integration pack for Fujitsu ManageNow® solution	
Server Management notes	Regarding operating system dependencies for ServerView Suite software products see dedicated product data sheets.	
Dimensions / Weight		
Rack (W x D x H)	482 mm (Bezel) / 431mm (Body) x 762 mm x 43 mm	
Mounting Depth Rack	718 mm	
Height Unit Rack	1 U	
19" rackmount	Yes	
Mounting Cable depth rack	200 mm (1000 mm Rack recommended)	
Weight	up to 18 kg	
Weight notes	Actual weight may vary depending on configuration	
Rack integration kit	Rack integration kit as option	
Environmental		
Operating ambient temperature	10 - 35℃	
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=d4ebd846-aa0c-478b-8f58-4cfbf3230473	
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296	
Sound pressure (LpAm)	Performance mode: 34 dB(A) min, 53 dB(A) max (idle) / 58 dB(A) min, 67 dB(A) max (operating)	
Sound power (LWAd; 1B = 10dB)	Performance mode: 4.9 B min , 7.3 B max (idle) / 6.8 B min, 8.2 B max (operating)	
Electrical values		
Power supply configuration	1-2x 450W/800W hot-plug power supply	
Max. output of single power supply	450/800 W (94% efficiency)	
Power supply efficiency	94% (at 50% PSU load, CSCI "platinum")	
Hot-plug power supply output	450/800 W (94% efficiency)	
Hot-plug power supply redundancy	Yes	
Rated voltage range	100 V - 240 V	
Rated frequency range	47 Hz - 63 Hz	
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Electrical values	
Rated current max.	8.0 A (100 V) / 4.0 A (240 V)
Rated current in basic configuration	1.5 A (100 V) / 0.6 A (240 V)
Active power (max. configuration)	627 W
Apparent power (max. configuration)	646 VA
Heat emission	2257.2 kJ/h (2139.4 BTU/h)
Power Supply Notes	Power Safeguard adapts system performance in case the wattage exceeds supply limits.
Compliance	
Germany	CS .
Europe	CE Class A *
USA/Canada	CSAc/us
	ULc/us
	ICES-003 Class A
	FCC Class A
Global	CB
	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
Japan	VCCI Class A + JIS 61000-3-2
China	CCC (depending on configuration)
Taiwan	CNS 13438 class A
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	http://sp.ts.fujitsu.com/sites/certificates/

Components

SCSI / SAS Controller	SAS Ctrl. 6 Gb 8 ports ext. PCle Gen2 x8						
Optical drives	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I						
	HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise						
	HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise						
	PCIe SSD, 320 GB, MLC, Flash drive HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical HDD SATA, 6 Gb/s, 250 GB, 7200 rpm, hot-plug, 2.5-inch, business critical HDD SATA, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 2.5-inch, business critical HDD SAS, 6 Gb/s, 900 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise HDD SAS, 6 Gb/s, 450 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise						
				SSD SAS, 6 Gb/s, 400 GB, SLC, hot-plug, 2.5-inch, enterprise SSD SAS, 6 Gb/s, 200 GB, SLC, hot-plug, 2.5-inch, enterprise SSD SAS, 6 Gb/s, 100 GB, SLC, hot-plug, 2.5-inch, enterprise PCIe SSD, 640 GB, MLC, Flash drive			
							Storage disks

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RAID 5/6 Ctrl., SAS/SATA 6 Gb, LSI RAID Ctrl SAS 6G 1GB LSI, 8 ports ext.	
RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)	
RAID 5/6 Ctrl., SAS/SATA 6 Gb, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int.	
RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU (based on LSI SAS2108)	
RAID 5/6 Ctrl., SAS/SATA 6 Gb, Fujitsu RAID Ctrl SAS 6G 1GB (D3116), 8 ports int.	
RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)	
RAID 0/1 Ctrl., SAS/SATA 6 Gb, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.	
RAID level: 0, 1, 10, No BBU support (based on LSI SAS2008)	
Fibre Channel Host Bus Adapter 1 x 8 Gb Qlogic QLE2560 MMF LC-style	
Fibre Channel Host Bus Adapter 2 x 8 Gb Qlogic QLE2562 MMF LC-style	
Fibre Channel Host Bus Adapter 1 x 8 Gb Emulex LPe1250 MMF LC-style	
Fibre Channel Host Bus Adapter 2 x 8 Gb Emulex LPe12002 MMF LC-style	
Converged Network Adapter 2 x 10 Gb Emulex OCe10102	
Ethernet Ctrl. 1 x 1 Gb Intel® Gigabit CT Desktop Adapter	
Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PF Server Adapter	
Ethernet Ctrl. 2 x 10 Gb Fujitsu Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+ lp	
Ethernet Ctrl. 2 x 10 Gb Fujitsu Shared 10Gb Management LAN configured	
Ethernet Ctrl. 2 x 10 Gb Fujitsu Upgrade-Kit to 2x Gbit and 2x 10Gbit on-board	
Ethernet Ctrl. 2 x 1 Gb Fujitsu Eth Ctrl 2x1Gbit PCle x4 D2735-2 Cu	
Ethernet Ctrl. 2 x 1 Gb Fujitsu Upgrade-Kit to 4x Gbit on-board	
Ethernet Ctrl. 4 x 1 Gb Fujitsu Eth Ctrl 4x1Gbit PCle x4 D2745 Cu	
Ethernet Ctrl. 4 x 1 Gb Fujitsu Upgrade-Kit to 6x Gbit on-board	
InfiniBand HCA 1 x 40 Gb Mellanox	
InfiniBand HCA 1 x 56 Gb Mellanox	
InfiniBand HCA 2 x 40 Gb Mellanox	
InfiniBand HCA 2 x 56 Gb Mellanox	
NVIDIA® Quadro® NVS 300 LP, PCIe x1, 2x DVI/VGA	
Cable Arm 1U for PRIMECENTER- and 3rd-party racks	
3 years	
On-site Service (depending on country)	
the perfect extension	
7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.	
5 years	
http://www.fujitsu.com/fts/services	

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More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY RX200 S7, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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www.fujitsu.com/software/

More information

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Please find further information at http://www.fujitsu.com/global/about/environment/



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