

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

Datasheet for Red Hat certification

Maximum productivity in a 1U housing

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 & 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 and 'low-noise' the high efficient power supplies in significant savings ■ 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		
Base unit	PRIMERGY RX200 S7	
Housing types	Rack	Rack
Storage drive architecture	4x 2.5-inch SAS/SATA	8x 2.5-inch SAS/SATA
Power supply	Hot-plug	Hot-plug
 Mainboard		1 3
Mainboard type	D3032	
Chipset	Intel® C600 (Intel® Patsburg A)	
Processor quantity and type	1 - 2 x Intel® Xeon® processor E5-2600	I product family
	<u> </u>	product fairing
Processor	Intel® Xeon® processor E5-2603	C / CT/ M
		o, 6.4 GT/s, Mem bus: 1,066 MHz, 80 W)
	Intel® Xeon® processor E5-2609	C / CT/ M
		o, 6.4 GT/s, Mem bus: 1,066 MHz, 80 W)
	Intel® Xeon® processor E5-2620	V 7.2 CT/ M
		Yes, 7.2 GT/s, Mem bus: 1,333 MHz, 95 W)
	Intel® Xeon® processor E5-2630	Vec 7 2 CT/o Mars hus, 1 222 MHz OF W
		Yes, 7.2 GT/s, Mem bus: 1,333 MHz, 95 W)
	Intel® Xeon® processor E5-2630L	Voc. 7.2 CT/c Mam bus, 1.222 MHz, 60 W\
		Yes, 7.2 GT/s, Mem bus: 1,333 MHz, 60 W)
	Intel® Xeon® processor E5-2637	s, 8.0 GT/s, Mem bus: 1,600 MHz, 80 W)
		s, 6.0 u1/s, MeIII bus. 1,000 MHz, 60 W)
	Intel® Xeon® processor E5-2640	Yes, 7.2 GT/s, Mem bus: 1,333 MHz, 95 W)
	Intel® Xeon® processor E5-2643	165, 7.2 d1/5, Metil bd5. 1,555 MHZ, 35 WJ
	·	es, 8.0 GT/s, Mem bus: 1,600 MHz, 130 W)
	Intel® Xeon® processor E5-2650	es, 0.0 d1/s, Metil bus. 1,000 Milz, 150 Wj
	·	Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 95 W)
	Intel® Xeon® processor E5-2650L	105, 0.0 d1/3, MC11 bds. 1,000 M112, 33 Wj
	·	Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 70 W)
	Intel® Xeon® processor E5-2660	163, 0.0 d1/3, Metri 263. 1,000 Mil2, 70 Mj
	·	Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 95 W)
	Intel® Xeon® processor E5-2665	163, 0.0 4113, 116111 803. 1,000 11112, 33 117
	·	Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 115 W)
	Intel® Xeon® processor E5-2667	1657 616 41157 1116111 6051 17000 1111127 115 117
	·	Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 130 W)
	Intel® Xeon® processor E5-2670	,
	·	Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 115 W)
	Intel® Xeon® processor E5-2680	
	·	Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 130 W)
	Intel® Xeon® processor E5-2690	
		Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 135 W)
Memory slots	24 (12 DIMMs per CPU, 4 channels wit	h 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 as	released)

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, 1,333 MHz, PC3-10600, DIMM, single rank	
Memory options	4 GB (1 module(s) 4 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank	
	4 GB (1 module(s) 4 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, single rank	
	8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1,333 MHz, PC3-10600, DIMM, dual rank	
	8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank	
	16 GB (1 module(s) 16 GB) DDR3 LR LV, registered, ECC, 1,333 MHz, PC3-10600, LRDIMM, quad rank	
	16 GB (1 module(s) 16 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank	
	32 GB (1 module(s) 32 GB) DDR3 LR LV, registered, ECC, 1,333 MHz, PC3-10600, LRDIMM, quad rank	
Memory options	2 GB (1 module(s) 2 GB) DDR3 LV, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM, single rank	
, .	4 GB (1 module(s) 4 GB) DDR3 LV, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank	
Upgrade notes	A BIOS update can be necessary for a memory and processor upgrade.	
nterfaces		
USB 2.0 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) plus 2x1 Gbit/s as default Modular integrated on-board LAN with upgrade options to 4x 1 Gbit/s (RJ45) or 2x 10 Gbit/s (SFP+)	
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S3 (10/100/1000 Mbit/s)	
	Management LAN traffic can be switched to shared onboard Gbit LAN port	
	or optional Modular LAN 2x10 Gbit controller	
	Front Service LAN port as option	
Onboard or integrated Controller		
RAID controller	4 port for internal 3G SATA and SAS (as upgrade option with SAS enabling key) for HDDs with RAID 0/1/10 (Intel C600 additional RAID controller options are described under Components RAID controller	
SATA Controller	Intel® C600, 1 x SATA channel for ODD	
LAN Controller	$Intel @ \ Ethernet\ Controller\ 1350,\ 2\times10/100/1000\ Mbit/s\ Ethernet\ (I/O\ acceleration),\ In\ addition\ 2\times1\ Gbit/s\ as\ default\ Mbit/s\ Mbit/s$	
	Modular integrated on-board LAN with upgrade options to 4x 1 Gbit/s or 2x 10 Gbit/s PXE-Boot via LAN from PXE server, iSCSI boot (also diskless)	
Remote Management Controller	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller) IPMI 2.0 compatible	
Trusted Platform Module (TPM)	Infineon / separate module; TCG V1.2 compliant (option)	
Slots		
PCI-Express 3.0 x8	3 x Low profile	
PCI-Express 3.0 x16	1 x Low profile	
Slot Notes	One PCIe Gen3 x8 slot may be occupied with a Modular integrated on-board LAN controller if configured. One PCIe Gen3 x8 slot may be occupied with a Modular RAID controller if configured	
Drive bays (Base unit specific)		
Storage drive bays	4 x 2.5-inch base unit or 8 x 2.5-inch base unit	
Accessible drive bays	1 x 5.25/0.5-inch for CD-RW/DVD	
Notes accessible drives	All possible options described in relevant system configurator.	
Drive bays (Base unit specific)		
Storage drive bays	4 x 2.5-inch hot-plug SAS/SATA 8 x 2.5-inch hot-plug SAS/SATA	
General system information		
N. 1 ((6	
Number of fans	0	
Number of fans Fan configuration	redundant / hot-plug	

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Operating panel	
Operating panel	On/off switch
Operating buttons	Reset button
	NMI button
	ID button
Status LEDs	System status (orange / yellow)
3.0.03 2233	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	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
	SUSE® Linux Enterprise Server 11
	SUSE® Linux Enterprise Server 10
	SUSE® Linux Enterprise Server 10 with XEN
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
	Red Hat® Enterprise Linux 5
	Red Hat® Enterprise Linux 5 with XEN
	Citrix® XenServer®
Operating system release link	CON ACIDETO
Operating system notes	Support of other Linux derivatives on demand
<u> </u>	——————————————————————————————————————

Dimonsions / Woight	
Dimensions / Weight	492 mm (Pazal) / 431mm (Pady) v 762 mm v 43 mm
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 19" rackmount	10
	Yes
Mounting Cable depth rack	200 mm (1,000 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 specification)
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	Performance mode: 34 dB(A) min, 50 dB(A) max (idle) / 35 dB(A) min, 60 dB(A) max (operating)
Sound power (LWAd; 1B = 10dB)	Performance mode: 5.1 B min , 6.7 B max (idle) / 5.1 B min, 7.6 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 % (80 PLUS 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
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	
Global	CB
	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
Germany	GS
Europe	CE Class A *
USA/Canada	CSAc/us
	ULc/us
	ICES-003 Class A
	FCC Class A
Japan	VCCI Class A + JIS 61000-3-2
China	CCC (depending on configuration)
Taiwan	CNS 13438 class A
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
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.

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Components

Storage drives	SSD SATA, 3 Gb/s, 32 GB, SLC, 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			
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical			
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical			
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical HDD SAS, 6 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise			
				HDD SAS, 6 Gb/s, 450 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
				HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 6 Gb/s, 146 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 6 Gb/s, 73 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise			
Optical drives	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I			
CSI / SAS Controller	SAS Ctrl. 6 Gbit/s 8 ports ext. PCle 2.0 x8			
RAID Controller	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, 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 for selected systems (based on LSI SAS2108)			
	RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.			
	RAID level: 0, 1, 10, No BBU support			
Fibre Channel controller	Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Qlogic QLE2560 MMF LC-style			
	Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Qlogic QLE2562 MMF LC-style			
	Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Emulex LPe1250 MMF LC-style			
	Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Emulex LPe12002 MMF LC-style			
ommunication, Network	Converged Network Adapter 2 x 10 Gbit/s PCIe 2.0 x8 (Emulex)			
	Ethernet Ctrl. 1 x 1 Gbit/s PCle 1.1 x1 (Intel®)			
	Ethernet Ctrl. 1 x 1 Gbit/s PCle x4 (Intel®)			
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.0 x8 (Fujitsu)			
	Ethernet Ctrl. 2 x 1 Gbit/s PCle x4 (Fujitsu)			
	Ethernet Ctrl. 4 x 1 Gbit/s PCle x4 (Fujitsu)			
	InfiniBand HCA 1 x 40 Gbit/s PCIe 2.0 x8 (Mellanox)			
	InfiniBand HCA 2 x 40 Gbit/s PCIe 2.0 x8 (Mellanox)			
Rack infrastructure	Rackmount kit full extraction (820mm), tool less mounting, length variable 559-914mm			
	Cable Management 1U for PRIMECENTER- and 3rd-party racks			
 Varranty				
tandard Warranty	3 years			
ervice level	Onsite Service			
Naintenance and Support Service	es - the perfect extension			
Recommended Service	24x7, 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			

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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.

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

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More information

Learn more about Fujitsu PRIMERGY RX200 S7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. http://www.fujitsu.com/PRIMERGY

Fujitsu green policy innovation



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