

Data Sheet FUJITSU Server PRIMERGY RX100 S7p Mono socket 1U rack server

Small in size and low in cost – rich in optional features

The Fujitsu Server 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 RX100 S7p

The Fujitsu Server PRIMERGY RX100 S7 is an entry mono socket Intel® x86 rack server designed to provide a solution for small budgets, yet enabling a rich set of optional expansions to best meet individual demands. Its usage patterns cover infrastructure and communication applications by delivering up to 32GB RAM, up to 3 PCle slots and up to 4 hard disk drives. Moreover, this 1U server enables individual configuration with a rich set of optional features, such as hot-plug 94% efficient power supply units, redundant fan, RAID controller and the choice of Intel® Xeon® E3, Intel® Core® and Intel® Celeron® processors. By delivering the highest energy efficiency of its class, the RX100 S7 also contributes to the lowest

operational costs. Furthermore, the ServerView™ suite and remote management features (iRMC S3) simplify administration and enables centralized management for de-centralized installations.











Features & Benefits

Main Features	Benefits
Small in costs	
■ Most energy efficient rack server of its class	■ Clear reduction in energy costs
■ Fujitsu ServerView™ suite and onboard remote management	■ Comprehensive and simplified management reduce time for
features (iRMC S3) enable centralized management	standard administration tasks
Cost-optimized foundation	
Onboard dual gigabit LAN	Cost-optimized foundation for infrastructure and communication
■ Up to 32GB RAM, up to 2 PCle Gen2 and 1 PCle Gen3 slots and up to	applications
4 hard disk drives	■ Flexible to meet the individual demand
Free choice: 2x 3.5 SATA/ SAS HDDs or 4x 2.5 SATA/SAS/SSD HDDs	
Rich set of optional features	
Choice of Intel® Xeon® E3, Core™ i3, Celeron® and Pentium® processors	 Perfectly meet the performance requirements with available budget Match redundancy requirements with available budget
■ Modular RAID controllers	
■ Redundant fans	
 Hot-plug and redundant power supply (PSU) with platinum efficiency (94%) 	

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Technical details

Storage drive architecture	3.5-inch SAS/SATA	3.5-inch SAS/SATA	2.5-inch SAS/SATA
Power supply	Standard	Hot-plug	Hot-plug
• • • •	Standard	The play	
Mainboard	D 202/		
Mainboard type	D 3034		
Chipset	Intel® C202	u lec ma	e 53.1300.3 L. ()
Processor quantity and type	I x Intel® Celeron® processor	/ Intel® Core™ 13 processor / Intel® Xeo	n® processor E3-1200v2 product family
Processor	Intel® Celeron® processor G1610 (2C/2T, 2.60 GHz, TLC: 2 MB, Turbo: No, 1,333 MHz, 55 W) Intel® Core™ i3-3220 processor (2C/4T, 3.30 GHz, TLC: 3 MB, Turbo: No, 1,600 MHz, 55 W) Intel® Pentium® processor G2120 (2C/2T, 3.10 GHz, TLC: 3 MB, Turbo: No, 1,600 MHz, 55 W) Intel® Xeon® processor E3-1220Lv2 (2C/4T, 2.30 GHz, TLC: 3 MB, Turbo: Yes, 1,600 MHz, 17 W) Intel® Xeon® processor E3-1220v2 (4C/4T, 3.10 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 69 W) Intel® Xeon® processor E3-1230v2 (4C/8T, 3.30 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 69 W) Intel® Xeon® processor E3-1240v2 (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 69 W) Intel® Xeon® processor E3-1265Lv2 (4C/8T, 2.50 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 45 W) Intel® Xeon® processor E3-1270v2 (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 69 W) Intel® Xeon® processor E3-1280v2		
Mamary clats		Turbo: Yes, 1,600 MHz, 69 W)	
Memory slots Memory slot type	4 (2 banks with 2 DIMMs eac	11)	
Memory capacity (min max.)	DIMM (DDR3) UDIMM 2 GB - 32 GB		
Memory protection	ECC		
Memory notes		•	f 2 memory modules have to be ordered. Capacity
Memory options		R3, unbuffered, ECC, 1,600 MHz, PC3-12 R3, unbuffered, ECC, 1,600 MHz, PC3-12	
nterfaces			
ISB 2.0 ports	7		
Graphics (15-pin)	1 x VGA (15-pin)		
Serial connection	1 x serial RS-232-C, usable f	or iRMC or system or shared	
AN / Ethernet (RJ-45)	2 x Gbit/s Ethernet		
Management LAN (RJ45)		AN port for iRMC S3(10/100/1000 Mb be switched to shared onboard Gbit LA	
Onboard or integrated Controller			
RAID controller	Integrated RAID 0/1 or RAID 5 additional RAID controller op	5/6 controller (option) tions are described under Components	RAID controller
SATA Controller	Intel® C202, 1 port used for a	•	
LAN Controller	Intel® 82574L + Intel® 82579		thernet (TCP/IP acceleration), iSCSI and PXE-Boot

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Onboard or integrated Controller			
Remote Management Controller	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller) IPMI 2.0 compatible		
Trusted Platform Module (TPM)	optional TPM		
Onboard or integrated Controller (Ba	se unit specific)		
RAID controller	4 port SATA with RAID 0/1/10 for HDDs	4 port SATA with RAID 0/1/10 for HDDs	
SATA Controller	4-port SATA 3GB with RAID 0, 1	4-port SATA 3Gb with RAID 0, 1	
SATA controller type notes	for hot-plug SATA hard disks	for hot-plug SATA hard disks	
Slots			
PCI-Express 3.0 x16	1 x Low profile max. length 175mm		
PCI-Express 2.0 x1 (mech. x4)	1 x Low profile max. length 170mm		
PCI-Express 2.0 x4 (mech. x8)	1 x Low profile (for Modular RAID only)		
Slot Notes	In configurations with Intel® Core™ i3 or Intel®	Pentium® processors slots are operated with PCI-Express 2.0.	
Drive bays			
Storage drive bays	4x 2.5-inch hot-plug SAS/SATA or 2x 3.5-inch h	ot-plug SAS/SATA	
Accessible drive bays	1 x 5.25/0.5-inch for CD-RW/DVD		
	1 x 3.5/0.5-inch for ServerView Local Service Pa	nel or front VGA + front Service LAN	
Drive bays (Base unit specific)			
Number of fans	4		
Fan notes	4 fans in combination with standard power supply or 5 fans in combination with hot-plug PSU base unit for 1+4		
	redundancy.		
Operating panel			
Operating buttons	On/off switch		
	NMI 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)		
Service display	Optional:		
service display	ServerView Local Service Panel (LSP)		
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		
	Remote PXE boot support		
	Remote iSCSI boot support		

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Operating Systems and Virtualization S	Software Sof
Certified or supported operating	Microsoft® Hyper-V Server R2 2012
systems and virtualization software	Microsoft® Windows Server® 2012 R2 Datacenter
	Microsoft® Windows Server® 2012 R2 Standard
	Microsoft® Windows Server® 2012 R2 Essentials
	Microsoft® Windows Server® 2012 R2 Foundation
	Microsoft® Windows Storage Server 2012 R2 Standard
	Microsoft® Hyper-V Server 2012
	Microsoft® Windows Server® 2012 Datacenter
	Microsoft® Windows Server® 2012 Standard
	Microsoft® Windows Server® 2012 Essentials
	Microsoft® Windows Server® 2012 Foundation
	Microsoft® Windows Storage Server 2012 Standard
	Microsoft® Hyper-V™ Server 2008 R2
	Microsoft® Windows Server® 2008 R2 Datacenter
	Microsoft® Windows Server® 2008 R2 Enterprise
	Microsoft® Windows Server® 2008 R2 Standard
	Microsoft® Windows Server® 2008 R2 Foundation
	Microsoft® Windows® Web Server 2008 R2
	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™ 5.5 Embedded
	VMware vSphere™ 5.5
	VMware vSphere™ 5.0 Embedded
	VMware vSphere™ 5.0
	SUSE® Linux Enterprise Server 11
	SUSE® Linux Enterprise Server 10
	Red Hat® Enterprise Linux 6
	Red Hat® Enterprise Linux 5
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Operating system notes	VMware ESX hints:
operating system notes	- SATA RAID is not supported
	- Storing virtual machines locally requires a SAS RAID Controller
	- Onboard GbE is supported on one of the two ports
	Support of other Linux derivatives on demand
	Red Hat® certification starting with version 5.8 / 6.4.
Server Management	
Standard	
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 sheet

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Dimensions / Weight	
Rack (W x D x H)	482.6 mm (Bezel) / 431mm (Body) x 572 x 42.5 mm
Mounting Depth Rack	557 mm
Height Unit Rack	1 U
Mounting Cable depth rack	200 mm cable depth
Weight	up to 14 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option
Environmental	
Operating ambient temperature	15 - 35 ℃
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Sound pressure (LpAm)	24/30 dB(A) (min / max idle), 28.5 / 53.5 db(A) (min / max operating)
Sound power (LWAd; 1B = 10dB)	3.7/4.3 B (min / max idle), 4.2 / 6.8 B (min / max operating)
Noise notes	Noise emissions and operation modes depend on system configuration.
Electrical values	
Power supply configuration	1x standard power supply or 1x hot-plug power supply or 2x hot plug power supplies for redundancy
Standard power supply output	300 W (90% efficiency)
Hot-plug power supply output	450W (94% efficiency)
Hot-plug power supply redundancy	Yes
Rated voltage range	100 V - 127 V / 200 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	6A
Rated current in basic configuration	1.8 A / 0.8 A (100V / 240V)
Active power (max. configuration)	193 W
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect: http://configurator.ts.fujitsu.com/public/
Apparent power (max. configuration)	195 VA
Heat emission	694.8 kJ/h (658.5 BTU/h)
Compliance	
Global	СВ
	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
	ENERGY STAR®
Germany	CS
Europe	CE Class A *
USA/Canada	CSAc/us
	ULc/us
	FCC Class A
Japan	VCCI
Russia	GOST
South Korea	KC
China	CCC (AC-Adapter)
Australia/New Zealand	C-Tick
Taiwan	BSMI
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

Characteristics	CCD CATA C CLI2 (OO CD MIC habalus 25 task salvastis
Storage drives	SSD SATA, 6 Gb/s, 400 GB, MLC, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 100 GB, MLC, hot-plug, 2.5-inch, enterprise
	HDD SATA, 320 GB, 5,400 rpm, non hot plug, 2.5-inch, economic
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	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, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 3 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-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, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-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, 3.5-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, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 3 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	1100 37 G, 0 ab/s, 1 10, 7,200 fpiii, 110c plag, 2.5 fficil, basilicss chacai
Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I
SCSI / SAS Controller	SAS Ctrl. 6 Gbit/s 8 ports ext. PCle Gen2 x8
RAID Controller	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int.
NAID CONTROLL	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 Gbit/s, Fujitsu RAID Ctrl SAS 6G 1GB (D3116C), 8 ports int.
	RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)
	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, 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 Gbit/s, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.
	RAID level: 0, 1, 10, No BBU support
	Integrated RAID 0/1 Ctrl., SAS/SATA 3 Gbit/s, 4 ports int.
	RAID level: 0, 1, 1E, No BBU support (based on LSI 1064e)
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
	Fibre Channel Host Bus Adapter 1 x 4 Gbit/s#8 Gbit/s#16 Gbit/s Emulex LPe16000B LC-style
	Fibre Channel Host Bus Adapter 2 x 4 Gbit/s#8 Gbit/s#16 Gbit/s Emulex LPe16002B LC-style
	Tible channel flose bas haaptel 2 x 4 abitasii a abitasii 10 abitas Ellitalex El e 100020 Ec-style

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Ethernet Ctrl. 2 x 10 Gbit/s#1 Gbit/s#100 MBit/s PCle Gen2.1 x8 (Intel®) Ethernet Ctrl. 2 x 10 Gbit/s PCle Gen2 x8 (Fujitsu)			
ujitsu partner.			
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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY RX100 S7p, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY RX100 S7p, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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