

Data Sheet

Fujitsu PRIMERGY RX100 S7p Mono socket 1 U rack server

Datasheet for Red Hat certification

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

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 RX100 S7p

The Fujitsu 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 and Benefits

reduction in energy costs
orehensive and simplified management reduce time for
dard administration tasks
optimized foundation for infrastructure and communication
cations
ble to meet the individual demand
ctly meet the performance requirements with available budget
h redundancy requirements with available budget

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Technical details

PRIMERGY RX100 S7p				
Storage drive architecture	3.5" SAS/SATA	3.5" SAS/SATA	2.5" SAS/SATA	2.5" SAS/SATA
Power supply	Standard	Hot-plug	Standard	Hot-plug
Mainboard				
Mainboard type	D 3034			
Chipset	Intel® C202			
Processor quantity and type	1 x Intel® Celeron® pr	1 x Intel® Celeron® processor / Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Xeon® processor E3 series		
Processor	(2C/2T, 2.40 GHz, TLC Intel® Xeon® process (2C/4T, 2.30 GHz, TLC Intel® Xeon® process (4C/4T, 3.10 GHz, TLC Intel® Xeon® process (4C/8T, 3.30 GHz, TLC Intel® Xeon® process (4C/8T, 3.40 GHz, TLC Intel® Xeon® process (4C/8T, 2.50 GHz, TLC Intel® Xeon® process (4C/8T, 2.50 GHz, TLC Intel® Xeon® process (4C/8T, 3.50 GHz, TLC Intel® Xeon® process (4C/8T, 3.50 GHz, TLC Intel® Xeon® process	Intel® Celeron® processor G530 (2C/2T, 2.40 GHz, TLC: 2 MB, Turbo: No, 1066 MHz, 65 W) Intel® Xeon® processor E3-1220Lv2 (2C/4T, 2.30 GHz, TLC: 3 MB, Turbo: Yes, 1600 MHz, 17 W) Intel® Xeon® processor E3-1220v2 (4C/4T, 3.10 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 69 W) Intel® Xeon® processor E3-1230v2 (4C/8T, 3.30 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 69 W) Intel® Xeon® processor E3-1240v2 (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 69 W) Intel® Xeon® processor E3-1265Lv2 (4C/8T, 2.50 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 45 W) Intel® Xeon® processor E3-1270v2 (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 69 W) Intel® Xeon® processor E3-1280v2 (4C/8T, 3.60 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 69 W)		
Memory slots	4 (2 banks with 2 DIA	MMs each)		
Memory slot type	DIMM (DDR3) UDIMA			
Memory capacity (min max.)	2 GB - 32 GB			
Memory protection	ECC			
Memory notes			ce, a minimum of 2 memory r	nodules have to be ordered. Capacity
Memory options	2 GB (1 module(s) 2	GB) DDR3, unbuffered, ECC, 16	600 MHz, PC3-12800, DIMM	
	4 GB (1 module(s) 4	GB) DDR3, unbuffered, ECC, 16	600 MHz, PC3-12800, DIMM	
	8 GB (1 module(s) 8	GB) DDR3, unbuffered, ECC, 16	600 MHz, PC3-12800, DIMM	
Interfaces				
USB ports	7 x (2x front, 4x bacl	x, 1x internal for UFM)		
Graphics (15-pin)	1 x VGA (15-pin)			
Serial connection	•	usable for iRMC or system or s	hared	
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet			
Service LAN (RJ45)		ement LAN port for iRMC S3(n be switched to shared onboo		
Status LEDs	System status (orang Identification (blue) Hard disks access (gr Power (amber / greer At system rear side: System status (orang Identification (blue) LAN connection (greet LAN speed (green / ye	een) n) e / yellow)		

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Onboard or integrated Controller				
RAID controller	Integrated RAID 0/1 or RAID 5/6 controller (option	n)		
	See under Components RAID controller	'		
SATA Controller	Intel® C202, 1 port used for accessible drive			
	4 port for internal SATA HDDs with RAID 0, 1, 10 l			
LAN Controller		/100/1000 Mbit/s Ethernet (TCP/IP acceleration), iSCSI and PXE-Boot		
	via LAN planned to be supported on both LoMs, N			
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		entium® processors slots are operated with PCI-Express 2.0.		
Storage drive bays	4x 2.5-inch hot-plug SAS/SATA or 2x 3.5-inch hot-	-plua SAS/SATA		
Accessible drive bays	1 x 5.25/0.5-inch for CD-RW/DVD	r - J		
	1 x 3.5/0.5-inch for ServerView Local Service Panel or front VGA + front Service LAN			
Drive bays (Base unit specific)				
Number of fans	4			
Fan notes	4 fans in combination with standard power supp redundancy.	ly or 5 fans in combination with hot-plug PSU base unit for 1+4		
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:			
. ,	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			
Operating Systems and Virtualization				
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e	e4cb-4f48-aa41-632f69058421		

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Operating Systems and Virtualization So	oftware
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 / 6.2
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
	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	-9 9-7- 9-7
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 locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
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 / description	May vary according to 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
Apparent power (max. configuration)	195 VA
Heat emission	694.8 kJ/h (658.5 BTU/h)
Compliance	
Germany	GS
Europe	CE Class A *
-u.opc	CE CIOSTI

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Compliance	
USA/Canada	CSAc/us
	ULc/us
	FCC Class A
Global	CB
	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
Japan	VCCI
Russia	GOST
South Korea	KC
China	CCC
Australia/New Zealand	C-Tick
Taiwan	BSMI
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

Character Mala	LIDD CATA C CL/2 500 CD 7300 b-b-l 2 5 :b:
Storage disks	HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, business critical
	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, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 250 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 3 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 3.5-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, 15000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15000 rpm, hot-plug, 3.5-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, 3.5-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
	HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
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 Gb 8 ports ext. PCle Gen2 x8
	SAS Ctrl. 3 Gb 4 ports int. / 4 ports ext.

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RAID Controller	Integrated RAID 5/6 Ctrl., HDD SAS 6 Gb, Fujitsu , 8 ports int.	
	RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU (based on LSI SAS2108)	
	Integrated RAID 0/1 Ctrl., SAS/SATA 6 Gb, Fujitsu , 8 ports int.	
	RAID level: 0, 1, 10, No BBU support (based on LSI SAS2008)	
	Integrated RAID 0/1 Ctrl., SAS/SATA 3 Gb, 4 ports int.	
	RAID level: 0, 1, 1E, No BBU support (based on LSI 1064e)	
LAN Controller	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 PCle x8 D2755 SFP+ lp	
	Ethernet Ctrl. 2 x 1 Gb Fujitsu Eth Ctrl 2x1Gbit PCle x4 D2735-2 Cu	
	Ethernet Ctrl. 4 x 1 Gb Fujitsu Eth Ctrl 4x1Gbit PCle x4 D2745 Cu	
Rack infrastructure	Cable Arm 1U for PRIMECENTER- and 3rd-party racks	
Warranty		
Standard Warranty	1 year	
Service level	On-site Service (depending on country)	
Maintenance and Support Serv	ices - the perfect extension	
Recommended Service	7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.	
Service Lifecycle	5 years	
Service Weblink	http://www.fujitsu.com/fts/services	

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More information

Fujitsu platform solutions

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.

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

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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Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT.

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



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