

## Data Sheet FUJITSU Server PRIMERGY RX100 S8 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 S8

The Fujitsu PRIMERGY RX100 S8 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 file, infrastructure and communication applications by delivering up to 32GB RAM, up to 3 PCIe slots and up to 10 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® i3 and Intel® Pentium® processors. By delivering the high energy efficiency and operation in higher ambient temperature, the RX100 S8

also contributes to the lowest operational costs. Furthermore, the ServerView™ suite and remote management features (iRMC S4) simplify the administration.











Page 1 / 9 www.fujitsu.com/fts

### Features & Benefits

#### Main Features Benefits Low in costs ■ High energy efficient Clear reduction in energy costs ■ Fujitsu ServerView™ suite and onboard remote management ■ Comprehensive and simplified management reduce time for features (iRMC S4) enables centralized management standard administration tasks ■ Cool-safe® Advanced Thermal Design enables operation in a higher ■ Each additional degree means approximately 5-6 percent less energy costs for air-conditioning ambient temperature Flexible foundation for infrastructure tasks ■ Intel Xeon processor E3-1200 v3 and up to 32GB RAM, up to 3 PCle ■ Cost-optimized foundation for file, infrastructure and slots and up to 10 hard disk drives communication applications ■ Free choice: Up to 4x 3.5" or up to 8x 2.5" storage or 10x 2.5" (as ■ Flexible to meet the individual demand soon as released) Huge storage capacity fulfill requirements of storage demanding Optional pGFX Server Graphics application or services Unprecedented media transcoding performance ■ Nexperience Design and enhanced control panel Enhanced usability Rich set of optional features ■ Choice of Intel® Xeon® E3 v3, Core™ i3, Celeron® and Pentium® ■ Perfectly meet the performance requirements with available budget processors ■ Match redundancy requirements with available budget ■ Modular RAID controllers ■ Redundant fans ■ Hot-plug and redundant power supply (PSU) with platinum efficiency (94%) ■ Full-height PCle slot

Page 2 / 9 www.fujitsu.com/fts

## Technical details

PRIMERGY RX100 S8					
Housing types	Rack	Rack	Rack	Rack	
Storage drive architecture	3.5-inch SAS/SATA	3.5-inch SAS/SATA	2.5-inch SAS/SATA	2.5-inch SAS/SATA	
Power supply	Standard	Hot-plug	Standard	Hot-plug	
Mainboard	Storiogic	- Tot prog	3.0.1.00.0		
Mainboard type	D3229				
Chipset	Intel® C226				
Processor quantity and type		sor F3-1200v3 product family		 ntel® Pentium® processor	
Processor	1 x Intel® Xeon® processor E3-1200v3 product family / Intel® Core™ i3 processor / Intel® Pentium® processor  Intel® Core™ i3-4330 processor  (2C/4T, 3.50 GHz, TLC: 4 MB, Turbo: No, 1600 MHz, 54 W)  Intel® Pentium® processor G3420  (2C/2T, 3.20 GHz, TLC: 3 MB, Turbo: No, 1600 MHz, 54 W)  Intel® Xeon® processor E3-1220v3  (4C/4T, 3.10 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 80 W)  Intel® Xeon® processor E3-1230v3  (4C/8T, 1.80 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 25 W)  Intel® Xeon® processor E3-1230v3  (4C/8T, 3.30 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 80 W)  Intel® Xeon® processor E3-1240v3  (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 80 W)  Intel® Xeon® processor E3-1265Lv3  (4C/8T, 2.50 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 45 W)  Intel® Xeon® processor E3-1270v3  (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 80 W)  Intel® Xeon® processor E3-1280v3  (4C/8T, 3.60 GHz, TLC: 8 MB, Turbo: Yes, 1600 MHz, 80 W)				
Memory slots	4 (2 banks with 2 DIMN	As each)			
Memory slot type	DIMM (DDR3) UDIMM				
Memory capacity (min max.)	2 GB - 32 GB				
Memory protection	ECC				
Memory notes	Dual channel support. F per channel has to be th	•	, a minimum of 2 memory mo	dules have to be ordered. Capacity	
Memory options	2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM				
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM				
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM				
Interfaces					
USB 2.0 ports	4 x (2x rear, 2x interna	l)			
USB 3.0 ports	4 x (2x front, 2x rear)				
Graphics (15-pin)	1 x VGA (15-pin) / optional 1 x front VGA				
Serial connection	1 x serial RS-232-C, usable for iRMC or system or shared				
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet				
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S4(10/100/1000 Mbit/s) Management LAN traffic can be switched to shared onboard Gbit LAN port				
Onboard or integrated Controller					
RAID controller	Integrated RAID 0/1 or RAID 5/6 controller (option) additional RAID controller options are described under Components RAID controller				
SATA Controller	Intel® C226, 1 port used for accessible drive 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;				
LAN Controller	· · · · · · · · · · · · · · · · · · ·	x 10/100/1000 Mbit/s Etherne		NC Doot and Wall are supported	

Page 3 / 9 www.fujitsu.com/fts

Onboard or integrated Controller Remote Management Controller	Integrated Remote Manage	ment Controller (iRMC S4- 256	6 MB attached memory incl. o	raphics controller)
	Integrated Remote Management Controller (iRMC S4, 256 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			
SATA Controller	4-port SATA 6Gb with RAID (	0, 1, 10		
SATA controller type notes	for hot-plug SATA hard disks			
Slots				
PCI-Express 3.0 x8	2 x Low profile Length 175mm; PCIe slot#1 = dedicated Modular RAID slot			
PCI-Express 2.0 x4 (mech. x8)	1 x Low profile			
Slot Notes	Optional support of 1x full height PCIe Gen3 x8 card, instead of 1x PCIe Gen2 x4 and 1x PCIe Gen3 x8			
Orive bays				
Storage drive bays	4/8 x 2.5-inch hot-plug SAS/SATA or 4x 3.5-inch hot-plug SAS/SATA or 10 x 2.5-inch hot-plug SAS/SATA as soon as released			
Accessible drive bays	1 x 5.25/0.4-inch for CD-RW/DVD			
Notes accessible drives	Following limitations applies to 10x 2.5-inch HDD base unit: No CD-RW/DVD, 1x USB 2.0 at the front, no front VGA			
Orive bays (Base unit specific)				
Storage drive bays	Max. 4x 3.5-inch		Max. 8x 2.5-inch	
Number of fans	4			
an notes	4 fans in combination with standard power supply or 5 fans in combination with hot-plug PSU base unit for 1+4 redundancy.			
Number of fans	4	5	4	5
an configuration	4 standard fan	5 redundant fan	4 standard fan	5 redundant fan
an notes	non redundant / non hot- plug	redundant / non hot-plug	non redundant / non hot- plug	redundant / non hot-plug
Operating panel				
Operating buttons	On/off switch NMI button Reset button			
Status LEDs	System status (orange) Identification (blue) Hard disks access (green) Power (green) At system rear side: System status (orange) Identification (blue) LAN connection (green) LAN speed (green / yellow)			
BIOS				
BIOS features	•			

Page 4 / 9 www.fujitsu.com/fts

Operating Systems and Vistualization	Coffinance		
Operating Systems and Virtualization Certified or supported operating	Microsoft® Hyper-V Server R2 2012		
systems and virtualization software	Microsoft® Windows Server® 2012 R2 Datacenter		
systems and virtualization software	Microsoft® Windows Server® 2012 R2 Standard		
	Microsoft® Windows Server® 2012 R2 Foundation		
	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		
	VMware vSphere™ 5.5 Embedded		
	VMware vSphere™ 5.5		
	Novell® SUSE Linux Enterprise Server 11		
	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:		
	- 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.		
	Red Hat? Certification starting with version 3.07 0.4.		
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)		
	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)	482.6 mm (Bezel) / 435.4 mm (Body) x 572 x 42.8 mm		
Height Unit Rack	10		
Mounting Cable depth rack	200 mm cable depth		
Weight	up to 13 kg		
Weight notes	Actual weight may vary depending on configuration		
Rack integration kit	Rack integration kit as option		
Environmental			
Operating ambient temperature	5 - 40 ℃		
Operating ambient temperature  Operating temperature note	Cool-Safe™ Advanced Thermal Design (above 35° or below 10° C) depending on configuration (planned). For detailed		
operating temperature note	information see relevant system configurator.		
Operating relative humidity	10 - 85 % (non condensing)		

Page 5 / 9 www.fujitsu.com/fts

Environmental			
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 / 34 dB(A) (min / max idle), 28.5 / 34 db(A) (min / max operating)		
Sound power (LWAd; 1B = 10dB)	3.7 / 5.1 B (min / max idle), 4.2 / 5.5 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		
Max. output of single power supply	450 W		
Standard power supply output	300 W (92% 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	50 Hz - 60 Hz		
Rated current max.	4.0 A		
Rated current in basic configuration	1.8 A / 0.8 A (100V / 240V)		
Active power (max. configuration)	197 W		
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect:		
The post of the second	http://configurator.ts.fujitsu.com/public/		
Apparent power (max. configuration)	199 VA		
Heat emission	709.2 kJ/h (672.2 BTU/h)		
Compliance			
Germany	GS .		
Еигоре	CE Class A *		
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 (planned)		
Australia/New Zealand	C-Tick (planned)		
Taiwan	BSMI (planned)		
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 use		
	may be required to take adequate measures.		
a 1. 1. 1			
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates		
Compliance link Global	http://globalsp.ts.fujitsu.com/sites/certificates		

Page 6 / 9 www.fujitsu.com/fts

# Components

Storage drives	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, 4 TB, 7200 rpm, hot-plug, 3.5-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, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
	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, 4 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 3 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 2 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 2.5-inch, business critical
Optical drives	DVD SuperMulti SATA slim, (8x DVD; 24x CD), 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.
	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 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
	Fibro Changal Host Pus Adapter 2 v 9 Chit/s Emulay I Do 12002 MMF I C stude
	Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Emulex LPe12002 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe12002 MiNF LC-style

Page 7 / 9 www.fujitsu.com/fts

Communication, Network	Converged Network Adapter 2 x 10 Gbit/s PCIe x8 ( Emulex )		
	Ethernet Ctrl. 1 x 1 Gbit/s PCle x1 ( Intel® )		
	Ethernet Ctrl. 1 x 1 Gbit/s PCle x4 ( Intel® )		
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe x8 ( Fujitsu )		
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe x8 ( Intel® )		
	Ethernet Ctrl. 2 x 1 Gbit/s PCle x4 ( Fujitsu )		
	Ethernet Ctrl. 2 x 1 Gbit/s PCle x4 ( Intel® )		
	Ethernet Ctrl. 4 x 1 Gbit/s PCle x4 ( Fujitsu )		
	Ethernet Ctrl. 4 x 1 Gbit/s PCle x4 ( Intel® )		
Craphics	NN/IDIA® Ouadra® NN/C 200 LD DCIa v1 2v DV/A/C A		
Graphics	NVIDIA® Quadro® NVS 300 LP, PCIe x1, 2x DVI/VGA		
Rack infrastructure	Rackmount kit full extraction (665mm), tool less mounting, length variable 559-914mm		
	Rackmount kit full extraction (665mm), tool less mounting, length variable 559-914mm		
	Cable Management 1U for PRIMECENTER- and 3rd-party racks		
Warranty			
Standard Warranty	1 year		
Service level	Onsite Service (depending on country)		
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM		
Maintenance and Support Services	s - the perfect extension		
Support Pack Options	Globally available in major business areas:		
	9x5, Next Business Day Onsite Response Time		
	9x5, 4h Onsite Response Time		
	24x7, 4h Onsite Response Time		
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.		
Service Lifecycle	5 years after end of product life		
Service Weblink	http://www.fujitsu.com/fts/services/support		

Page 8 / 9 www.fujitsu.com/fts

### More information

#### **Fujitsu OPTIMIZATION Services**

In addition to Fujitsu PRIMERGY RX100 S8, 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 S8, 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 contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/qlobal/about/environment



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