DATASHEET FUJITSU PRIMERGY RX100 S6 MONO SOCKET INTEL® XEON[®] RACK SERVER (1U)

COST OPTIMIZED AND HIGHLY MODULAR MULTI USAGE RACK SERVER

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 S6

Data centers are increasingly seeking platform solutions that have minimal impact on their budgets and are easy to implement and run. PRIMERGY RX100 S6 is the right answer. The RX100 S6 meets the needs of business applications with its technical developments, such as Quad-Core Intel® Xeon® processor 3400 series and the new Dual-Core Intel[®] Core™ i3 processor, integrated RAID 0/1/5/6 and a memory of up to 32 GB. It unites the advantages of low-cost SATA or SAS/SSD hard disk technology with a space-saving 1U chassis and a depth of less than 60 cm. Integrated network and management functions together with the latest power saving technologies make the system ideal for infrastructure solutions for customers with limited budgets.





FEATURES AND BENEFITS

MAIN FEATURES

FLEXIBILITY

2x 3.5" SATA or SAS HDDs or 4x 2.5" SATA/SAS/SSD HDDs, all hotplug with modular RAID controllers from low-entry embedded SATA RAID 0, 1; entry SAS 1.0 RAID 0, 1; newest SAS 2.0 RAID 0, 1 to performant SAS 2.0 RAID 5,6 controller

NEW PLATFORM

- Quad-Core Intel[®] Xeon[®] processor 3400 series with virtualization technology, and the new Intel[®] Core[™] i3 processor series generation of Intel[®] Dual-Core CPUs with very low power consumption
- Up to 32 GB of RAM new dimensions for the mono socket server ENERGY EFFICIENCY
- Low voltage Intel[®] Xeon[®] processors and new enhanced power supply with CSCI Silver certification and improved system energy features powered by iRMC S2

RELIABILITY

2 x Gbit/s Ethernet LAN with TCP/IP accelerator plus switchable Service LAN (dedicated or shared)

SERVICEABILITY

- Customer Self Service Module or front VGA + USB 2.0 as option
- System ID card with complete system information, e.g. Model, Serial Number, MAC Adresses etc.

BENEFITS

- Highly modular platform for all purposes that can be tailored exactly to customer requirements
- More tasks are handled in less time. More efficient work is possible in your IT sector and less power consumption too. Quad-Core Xeon[®] provides significant performance/watt growth
- Enough memory even for databases or virtualization tasks
- Get the best performance but save energy and protect the environment
- Top-speed communications link via LAN as standard ensures continuity in failover mode
- Better serviceability and accessability for low-entry rack environments
- Have all the systems important informations handy in a second

PRIMERGY RX100 S6			
Housing type	Rack	Rack	
Hard disk architecture	3.5" SAS/SATA	2.5" SAS/SATA	
Power supply	Standard	Standard	
MAINBOARD			
Mainboard type	D 2863		
Chipset	Intel® 3420		
Processor quantity and type	1 x Intel® Xeon® processor 3400 series / Intel® Pentium® Dual-Core processor / Intel® Celeron® processor		
PROCESSOR	Intel [®] Celeron [®] processor G1101 (2C, 2.26 GHz, SLC: , TLC: 2 MB, 1	urbo: No, 1066 MHz, 73 W)	
	Intel [®] Core™ i3 processor i3-530 (2C/4T, 2.93 GHz, SLC: , TLC: 4 M	3, Turbo: No, 1333 MHz, 73 W)	
	Intel [®] Core™ i3 processor i3-540 (2C/4T, 3.06 GHz, SLC: , TLC: 4 M	3, Turbo: No, 1333 MHz, 73 W)	
	Intel [®] Pentium [®] processor G6950 (2C, 2.80 GHz, SLC: , TLC: 3 MB, 1	urbo: No, 1066 MHz, 73 W)	
	Intel [®] Xeon [®] processor L3406 (2C/4T, 2.26 GHz, SLC: -, TLC: 4 N	IB, Turbo: 2/2, 1066 MHz, 30 W)	
		3, TLC: 8 MB, Turbo: 2/2/9/10, 1333 MHz, 45 W)	
	· · · · · · · · · · · · · · · · · · ·	3, TLC: 8 MB, Turbo: 1/1/2/3, 1333 MHz, 95 W)	
	Intel [®] Xeon [®] processor X3440 (4C/8T, 2.53 GHz, SLC: 4 x 256 KE	3, TLC: 8 MB, Turbo: 1/1/2/3, 1333 MHz, 95 W)	
	Intel [®] Xeon [®] processor X3450 (4C/8T, 2.66 GHz, SLC: 4 x 256 KB	8, TLC: 8 MB, Turbo: 1/1/4/4, 1333 MHz, 95 W)	
	Intel [®] Xeon [®] processor X3460 (4C/8T, 2.80 GHz, SLC: 4 x 256 KE	3, TLC: 8 MB, Turbo: 1/1/4/5, 1333 MHz, 95 W)	
	Intel [®] Xeon [®] processor X3470 (4C/8T, 2.93 GHz, SLC: 4 x 256 KE	3, TLC: 8 MB, Turbo: 2/2/4/5, 1333 MHz, 95 W)	
Memory slots	4 (2 banks with 2 DIMMs each)		
Memory slot type	DIMM (DDR3)		
Memory capacity (min max.)	1 GB - 32 GB		
Memory protection	Advanced ECC		
Memory notes	Dual channel support. For dual cha channel has to be the same.	nnel performance, a minimum of 2 memory modules have to be ordered. Capacity per	
MEMORY OPTIONS	8 GB (1 module(s) 8 GB) DDR3, reg	istered, ECC, 1066 MHz, PC3-8500, DIMM	
	4 GB (1 module(s) 4 GB) DDR3, unl	puffered, ECC, 1333 MHz, PC3-10600, DIMM	
	4 GB (1 module(s) 4 GB) DDR3, rec	istered, ECC, 1066 MHz, PC3-8500, DIMM	
		ouffered, ECC, 1333 MHz, PC3-10600, DIMM	
		puffered, ECC, 1333 MHz, PC3-10600, DIMM	
Memory modules notes	Unbuffered / Registered		
INTERFACES			
USB ports	8 x (2x (+1x optional) front, 4x bac	k. 1x internal planned for VMWare)	
Graphics (15-pin)	1 x VGA (15-pin)	, <u>, , , , , , , , , , , , , , , , , , </u>	
Serial connection	1 x serial RS-232-C, usable for iR	MC or system or shared	
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet		
Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S2 (10/100 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port		
ONBOARD OR INTEGRATED CONTRO		· · · · · · · · · · · · · · · · · · ·	
SATA Controller type notes	SATA (for 1x DVD-RW / Blu-ray)		
LAN Controller		ard, 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration), PXE-Boot via LAN from PXI	
	server, iSCSI Boot (also diskless) via		

ONBOARD OR INTEGRATED CONTROL	IFR		
Remote Management Controller	Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0		
Turrete d Distforms Mandala (TDM)	compatible		
Trusted Platform Module (TPM)	optional TPM		
ONBOARD OR INTEGRATED CONTROL			
RAID Controller	4 port SATA with RAID 0/1 for HDD's	4 port SATA with RAID 0/1 for HDD's	
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 2.0 x4 (mech. x8)	1 x (for Modular RAID only)		
PCI-Express 2.0 x8	2 x low profile (one of these can be used as sta	andard short, 175mm)	
DRIVE BAYS			
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 Panel or front VGA + USB 2.0		
DRIVE BAYS (BASE UNIT SPECIFIC)			
Hard disk bays	2 x 3.5-inch hot-plug SAS/SATA	4 x 2.5-inch hot-plug SAS/SATA	
OPERATING PANEL			
Operating buttons	On/off switch NMI button		
Status LEDs	System status (amber / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (amber / 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 Linu Local and remote update via ServerView Updat SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support		
SUPPORTED OPERATING SYSTEMS			
Supported operating systems	Microsoft [®] Windows Server [®] 2008 R2 Microsoft [®] Windows Server [®] 2008 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux Note: Support of other Linux derivatives on der	nand	
Operating system release link	http://ts.fujitsu.com/software http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b	9-e4cb-4f48-aa41-632f69058421	
SERVER MANAGEMENT			
Standard	ASR&R Automatic Server Recovery and Restar PDA Prefailure Detection and Anaylsis	t	
Option	ServerView Integration for Tivoli TEC®, Tivoli Ne iRMC S2 Advanced Pack	tView, HP NNM and HP Operations Manager	
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) / 430mm (Body) x 560 x 42	.5 mm	
Mounting Depth Rack	575 mm		

Heat emission	1036.8 kJ/h (982.9 BTU)
Apparent power max. (per system unit)	293 VA
Active power max. (per system unit)	288 W
Rated current max.	6 A
Rated frequency range	50 - 60 Hz
Rated voltage range	100 - 127 V / 200 - 240 V
Standard power supply output	350 W
Power supply configuration	1x standard power supply
ELECTRICAL VALUES	
Operating relative humidity	10 - 85 % (non condensing)
Operating ambient temperature	15 - 35°C
Sound power (LWAd; $1B = 10dB$)	System w/o PCle cards 4.4 B (idle)/4.3 B (operating) / w/ PCle cards 5.2 B (idle)/ 5.7 B (operating)
Sound pressure (LpAm)	w/o PCle cards 27.6 dB(A) (idle)/27.6 dB(A) (op.) / w/ PCle cards 35.8 dB(A) (idle)/40.7 dB(A) (op.)
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
ENVIRONMENTAL	
Rack integration kit	Rack integration kit as option
Weight notes	Actual weight may vary depending on configuration
Weight	up to 14 kg
Mounting Cable depth rack	200 mm cable depth
Height Unit Rack	10
DIMENSIONS / WEIGHT	

ENERGY STAR ® 1.0 CERTIFIED CONFIGURATIONS

The following products use less energy and reduce greenhouse gas emissions by meeting the strict Energy Star guidelines.

PRIMERGY RX100 S6 E-StarFam1 (Dual-Core CPUs)

PRIMERGY RX100 S6 E-StarFam2 (Quad-Core CPUs)



http://ts.fujitsu.com/products/standard_servers/e_efficient.html

COMPLIANCE	
Germany	GS
Europe	CE
USA/Canada	CSAc/us
	ULc/us
	FCC Class A
Global	CB
	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
Japan	VCCI
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.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

COMPONENTS

HARD DISK DRIVES	SSD SATA, 3 Gb/s, 64 GB, hot plug, 2.5-inch		
	SSD SATA, 3 Gb/s, 32 GB, hot plug, 2.5-inch		
	HDD SATA, 3 Gb/s, 750 GB, 7200 rpm, hot plug, 3.5-inch		
	HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, hot plug, 3.5-inch		
	HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, hot plug, 3.5-inch		
	HDD SATA, 3 Gb/s, 160 GB, 7200 rpm, hot plug, 3.5-inch		
	HDD SATA, 3 Gb/s, 2 TB, 7200 rpm, hot plug, 3.5-inch		
	HDD SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch		
	HDD SAS, 6 Gb/s, 600 GB, 15000 rpm, hot plug, 3.5-inch		
	HDD SAS, 6 Gb/s, 450 GB, 15000 rpm, hot plug, 3.5-inch		
	HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot plug, 3.5-inch		
	HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot plug, 2.5-inch		
	HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot plug, 2.5-inch		
	HDD SAS, 6 Gb/s, 146 GB, 10000 rpm, hot plug, 2.5-inch		
	HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot plug, 2.5-inch		
	HDD SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch		
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.		
nalu uisk notes	Accessible capacity may vary, also depending on used software		
	Mix of SAS and SATA HDD is possible but requires separate RAID sets and BC SATA drives		
OPTICAL DRIVES	Blu-ray combo drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I		
OF ITUAL UNIVES	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I		
SCSI / SAS CONTROLLER	SCSI Ctrl 320 MB 1x int /1x ext		
	SAS Ctrl 3 Gb 4 ports int. / 4 ports ext.		
RAID CONTROLLER	Integrated RAID 5/6 Ctrl, SAS 6 Gb, 8 ports int.		
	RAID level: 0, 1, 1+0, 5, 5+0, 6, 6+0, 512 MB Cache, optional BBU (based on LSI SAS2108)		
	Integrated RAID 0/1 Ctrl, SAS/SATA 3 Gb, 4 ports int. RAID level: 0, 1, 1E, no BBU support , for internal SAS tapes (based on LSI 1064e)		
LAN CONTROLLER	1 x 10 Gb Intel [®] Ethernet SFP+ Optics - LC SR		
	Ethernet Ctrl 1 x 10 Gb Intel® Ethernet Server Adapter X520-DA2		
	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 1 x 1 Gb Intel® PRO/1000 PT Server Adapter		
	Ethernet Ctrl 2 x 1 Gb Intel® PRO/1000 PT Dual Port Server Adapter		
	Ethernet Ctrl 4 x 1 Gb Intel [®] PRO/1000 PT Quad Port Server Adapter		
RACK INFRASTRUCTURE	Cable Arm 1U for PRIMECENTER- and 3rd-party racks		
	Rackmount kit full extraction (760mm), tool less mounting		
	Rackmount kit partly extraction (524mm), tool less mounting		
WARRANTY			
Standard Warranty	1 year		
Service level	On-site Service (depending on country)		
	ERVICES - THE PERFECT EXTENSION		
Recommended Service	7x24, Onsite Response Time: 4h		
Spare Parts availability	5 years		

FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu PRIMERGY RX100 S6, 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 S6, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. http://ts.fujitsu.com/Primergy

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/global/about/environment/



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