

DATASHEET

FUJITSU PRIMERGY RX100 S6 MONO-SOCKET INTEL® XEON® RACK SERVER (1 U)

Datasheet for Red Hat certification

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

Number, MAC Adresses etc.

MAIN FEATURES BENEFITS FLEXIBILITY ■ 2x 3.5" SATA or SAS HDDs or 4x 2.5" SATA/SAS/SSD HDDs, all hot-■ Highly modular platform for all purposes that can be tailored exactly to plug with modular RAID controllers from low-entry embedded SATA customer requirements 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 ■ More tasks are handled in less time. More efficient work is possible technology, and the new Intel® Core™ i3 processor series generation in your IT sector and less power consumption too. Quad-Core Xeon® of Intel® Dual-Core CPUs with very low power consumption provides significant performance/watt growth ■ Up to 32 GB of RAM - new dimensions for the mono socket server ■ Enough memory even for databases or virtualization tasks **ENERGY EFFICIENCY** ■ Low voltage Intel® Xeon® processors and new enhanced power supply ■ Get the best performance but save energy and protect the environment 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 Top-speed communications link via LAN as standard ensures Service LAN (dedicated or shared) continuity in failover mode **SERVICEABILITY** ■ Better serviceability and accessability for low-entry rack environments ■ Customer Self Service Module or front VGA + USB 2.0 as option ■ System ID card with complete system information, e.g. Model, Serial ■ Have all the systems important informations handy in a second

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TECHNICAL DETAILS

PRIMERGY RX100 S6	D 1	D. I.	
Housing type	Rack	Rack	
lard 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® Core™ i3 / Intel® Pentium® Dual-Core processor / Intel® Celeron® processor		
PROCESSOR	Intel® Celeron® processor G1101 (2C, 2.26 GHz, SLC: -, TLC: 2 MB, Tur	bo: No, 1066 MHz, 73 W)	
	Intel® Core™ i3 processor i3-530 (2C/4T, 2.93 GHz, SLC: -, TLC: 4 MB,	Turbo: No, 1333 MHz, 73 W)	
	Intel® Core TM i3 processor i3-540 (2C/4T, 3.06 GHz, SLC: -, TLC: 4 MB,	Turbo: No, 1333 MHz, 73 W)	
	Intel® Pentium® processor G6950 (2C, 2.80 GHz, SLC: -, TLC: 3 MB, Tur	bo: No, 1066 MHz, 73 W)	
	Intel® Xeon® processor L3406 (2C/4T, 2.26 GHz, SLC: -, TLC: 4 MB,	Turbo: 2/2, 1066 MHz, 30 W)	
	Intel® Xeon® processor L3426 (4C/8T, 1.86 GHz, SLC: -, TLC: 8 MB,	Turbo: 2/2/9/10, 1333 MHz, 45 W)	
	Intel® Xeon® processor X3430 (4C/4T, 2.40 GHz, SLC: -, TLC: 8 MB,	Turbo: 1/1/2/3, 1333 MHz, 95 W)	
	Intel® Xeon® processor X3440 (4C/8T, 2.53 GHz, SLC: -, TLC: 8 MB,	Turbo: 1/1/2/3, 1333 MHz, 95 W)	
	Intel® Xeon® processor X3450 (4C/8T, 2.66 GHz, SLC: -, TLC: 8 MB,	Turbo: 1/1/4/4, 1333 MHz, 95 W)	
	Intel® Xeon® processor X3460 (4C/8T, 2.80 GHz, SLC: -, TLC: 8 MB,	Turbo: 1/1/4/5, 1333 MHz, 95 W)	
	Intel® Xeon® processor X3470 (4C/8T, 2.93 GHz, SLC: -, TLC: 8 MB,	Turbo: 2/2/4/5, 1333 MHz, 95 W)	
Memory slots	4 (2 banks with 2 DIMMs each)		
Nemory slot type	DIMM (DDR3)		
Memory capacity (min max.)	1 GB - 32 GB		
Memory protection	Advanced ECC		
Memory notes	Dual channel support. For dual channe channel has to be the same.	el performance, a minimum of 2 memory modules have to be ordered. Capacity pe	
MEMORY OPTIONS	8 GB (1 module(s) 8 GB) DDR3, registe	ered, ECC, 1066 MHz, PC3-8500, DIMM	
	4 GB (1 module(s) 4 GB) DDR3, unbuff	ered, ECC, 1333 MHz, PC3-10600, DIMM	
	, , , , ,	ered, ECC, 1066 MHz, PC3-8500, DIMM	
		ered, ECC, 1333 MHz, PC3-10600, DIMM	
		ered, ECC, 1333 MHz, PC3-10600, DIMM	
Memory modules notes	Unbuffered / Registered		
NTERFACES			
JSB ports	8 x (2x (+1x optional) front, 4x back,	x internal planned for VMWare)	
Graphics (15-pin)	1 x VGA (15-pin)	,	
Serial connection	1 x serial RS-232-C, usable for iRMC	or system or shared	
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet		
	- A GOIGO EGIOTION		

ONBOARD OR INTEGRATED CONTRO	LLER	
RAID Controller	Integrated RAID 0/1 or RAID 5/6 controller for SAS base units (option, occupies one PCle slot). See under Components RAID controller	
SATA Controller	Intel® 3420 lbex Peak PCH Platform Control Hub, 1 port used for accessible drive 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;	
LAN Controller	Intel® 82574 + Intel® 82578 onboard, 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration), PXE-Boot via LAN from PX server, iSCSI Boot (also diskless) via onboard LAN	
Remote Management Controller	Integrated Remote Management Controller (iRM compatible	C S2, 32 MB attached memory incl. graphics controller), IPMI 2.0
Trusted Platform Module (TPM)	optional TPM	
ONBOARD OR INTEGRATED CONTRO	LLER (BASE UNIT SPECIFIC)	
RAID Controller	4 port SATA with RAID 0/1for HDDs	4 port SATA with RAID 0/1for 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 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 stal	ndard 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 Linux Local and remote update via ServerView Update 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 dem	and
Operating system release link	http://ts.fujitsu.com/software http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9	
SERVER MANAGEMENT		
Standard	ASR&R Automatic Server Recovery and Restart PDA Prefailure Detection and Anaylsis	

SERVER MANAGEMENT		
Option	ServerView Integration for Tivoli TEC®, Tivoli NetView, HP NNM and HP Operations Manager iRMC S2 Advanced Pack	
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	
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		
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296	
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.)	
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)	
Operating ambient temperature	15 - 35°C	
Operating relative humidity	10 - 85 % (non condensing)	
ELECTRICAL VALUES		
Power supply configuration	1x standard power supply	
Standard power supply output	350 W	
Rated voltage range	100 - 127 V / 200 - 240 V	
Rated frequency range	50 - 60 Hz	
Rated current max.	6 A	
Active power max. (per system unit)	288 W	
Apparent power max. (per system unit)	293 VA	
	1036.8 kJ/h (982.7 BTU/h)	

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.fuiitsu.com/products/standard_servers/e_efficient.html

http://ts.fujitsu.com/products/standard_se	ervers/e_efficient.html
COMPLIANCE	
Germany	GS
Europe	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
China	000
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	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
HALLO DION DINTEO	SSD SATA, 3 db/s, 64 db, not 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, 500 GB, 7200 rpm, hot plug, 2.5-inch
	HDD SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-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, 160 GB, 7200 rpm, hot plug, 2.5-inch
	HDD SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-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.
naru uisk iioles	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 Disc™ Combo Drive, (2x 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	SCSI Ctrl 320 MB 1x int /1x ext
	SAS Ctrl 3 Gb 4 ports int. / 4 ports ext.
RAID CONTROLLER	RAID 5/6 Ctrl, SAS 6 Gb, LSI, 8 ports ext.
	RAID level: 0, 1, 1+0, 5, 5+0, 6, 6+0, 512 MB Cache, optional BBU (based on LSI SAS2108)
	Integrated RAID 5/6 Ctrl, SAS 6 Gb, Fujitsu , 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 6 Gb. Fuiitsu . 8 ports int.
	RAID level: 0, 1, 10, no BBU support (based on LSISAS2008)
	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	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	
	1 year
Standard Warranty	i y c ai
	On-site Service (depending on country)
Standard Warranty Service level MAINTENANCE AND SUPPORT SE	·

WARRANTY

Spare Parts availability 5 years

Service Weblink http://ts.fujitsu.com/Supportservice

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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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