

DATA SHEET

PRIMERGY RX100 S5

Issue: April 2009

Mono Socket Intel[®] Xeon[®] Rack Server (1U) - Low-cost and a small footprint but big in energy efficiency and easy operations

PRIMERGY RX servers offer the perfect solution to downsize data center infrastructure costs efficiently. Basis for it is an IT strategy for more transparency of structure- and administrative expenses as well as maximum use of investments. Our broad portfolio of innovative virtualization, server and solution offerings for TCO reductions of 60% or more provides best prerequisites. Optimized air flow cooling technology assures a long life, highest possible performance/watt as well as by far best in class efficiency -proven by numerous benchmark records.

Benefit from our renowned experience in datacenter technology. These allow it, to transfer the availability rates of high end UNIX servers to RX rack servers, PRIMECENTER rack enclosures and infrastructure products.

PRIMERGY ServerView Suite with remote management functions provides comprehensive management from anywhere at any time. Our flexible custom supply model and our build-to-order process means that only fully built and pre-tested rack solutions are shipped to the customer. Last but not least Fujitsu Technology Solutions proven commitment to green IT offers clear competitive advantages to our customers.





PRIMERGY RX100 S5

As business processes and customer bases increasingly grow and rely more and more on Internet technology, data centers face the challenge of rapid enhancements to their front-end infrastructure services. Increasingly they are looking for a platform solution that has minimum impact on their budgets, yet is easy to deploy and simple to operate. The RX100 S5 is the optimal answer. With technical further developments, such as Quad-Core Intel® Xeon® CPU in the 3200/3300, integrated SAS or SATA RAID 0, 1 data protection for up to 2x 3.5-inch easy-to-swap SATA or 2x 3.5-inch not-plug SATA/SAS disks and 8 GB memory the PRIMERGY RX100 S5 matches your business application requirements perfectly. It combines the benefits of cost-optimized SATA or SAS disk technology with a space-saving 1 U form factor of less than 60 cm in depth. This makes it easy to integrate into any rack enclosures. The standard iRMC S2 (integrated Remote Management Controller) offers enhanced system management based on IPMI 2.0 technology. The set of integrated network and management functions make it a good choice for budget-sensitive infrastructure solutions

MAIN FEATURES	BENEFITS
SATA or SAS RAID 0, 1 controller, Dual Ethernet, integrated Remote Management Controller (iRMC S2) as standard, ServerView Local Service Panel (LSP) opt.	Optimized platform for all data center front-end tasks
Intel® Quad-Core Xeon® 3200/3300 and Dual-Core 3100 series with virtualization technology, Pentium DC or Core2 Duo with very low power consumption	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
Integrated SAS or SATA RAID 0, 1; SAS hot-plug / SATA hot-plug or "easy-to-change" hard disks	Easy to use and high-level data security
2 x Gbit/s Ethernet LAN with TCP/IP accelerator plus switchable Service LAN (dedicated or shared)	Top-speed communications link via LAN as standard ensures continuity in failover mode







opt.)

Technical details

PRIMERGY RX100 S5	0.5".04.74	0.5% 0.4.0/0.4.7.4
Hard disk architecture	3.5" SATA	3.5" SAS/SATA
Mainboard		
Mainboard type	D 2542	
Chipset	Intel® 3210	
Processor quantity and type	1 x Intel® Celeron® processor / Intel® Pentil processor 3000 sequence	um® Dual-Core processor / Intel® Xeon®
Processor options	Intel® Core™2 Duo E7200 (2C, 2.53 GHz,	SLC: 3 MB , 1066 MHz, 65 W)
	Intel® Core™2 Duo E7400 (2C, 2.80 GHz,	SLC: 3 MB , 1066 MHz, 65 W)
	Intel® Pentium® E2200 (2C, 2.20 GHz, SL0	C: 1 MB , 800 MHz, 65 W)
	Intel® Pentium® E5200 (2C, 2.50 GHz, SLC	C: 2 MB , 800 MHz, 65 W)
	Intel® Xeon® E3110 (2C, 3.00 GHz, SLC: 6	MB , 1333 MHz, 65 W)
	Intel® Xeon® E3120 (2C, 3.16 GHz, SLC: 6	6 MB , 1333 MHz, 65 W)
	Intel® Xeon® L3110 (2C, 3.00 GHz, SLC: 6	MB , 1333 MHz, 45 W)
	Intel® Xeon® L3360 (4C, 2.83 GHz, SLC: 2	x 6 MB , 1333 MHz, 65 W)
	Intel® Xeon® X3220 (4C, 2.40 GHz, SLC: 2	2 x 4 MB , 1066 MHz, 95 W)
	Intel® Xeon® X3360 (4C, 2.83 GHz, SLC: 2	2 x 6 MB , 1333 MHz, 95 W)
	Intel® Xeon® X3370 (4C, 3.00 GHz, SLC: 2	·
	Intel® Xeon® X3380 (4C, 3.16 GHz, SLC: 2	·
Memory slots	4 (2 banks with 2 DIMMs each)	
Memory slot type	DIMM (DDR2)	
Memory capacity (min max.)	1 GB - 8 GB	
Memory protection	Advanced ECC	
Memory notes	Dual channel support. For dual channel pe have to be ordered. Capacity per channel	erformance, a minimum of 2 memory modules has to be the same.
Memory options	2 GB (1 module(s) with 2 GB) DDR2, 800	MHz, PC2-6400
	1 GB (1 module(s) with 1 GB) DDR2, 800	MHz, PC2-6400
Upgrade notes	A BIOS update can be necessary for a me	mory and processor upgrade.
Interfaces		
USB ports	5 x (2x front, 2x back, 1x internal)	
Graphics (15-pin)	1 x VGA (15-pin)	
Serial connection	1 x serial RS-232-C, usable for iRMC or s	system or shared
Mouse / Keyboard (PS/2)	2	
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet	
Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S Service LAN traffic can be switched to sha	
Onboard or integrated Controll	er	
SATA Controller type notes	SATA (for 1x CD-RW / DVD / DVD-RW)	
LAN Controller		et (TCP/IP acceleration), PXE-Boot via LAN
	from PXE server, iSCSI Boot (also diskless	s) via onboard LAN
Remote Management Controller	Integrated Remote Management Controlle graphics controller), IPMI 2.0 compatible	r (iRMC S2, 32 MB attached memory incl.
Onboard or integrated Controll	er (Base unit specific)	
RAID Controller	2 port SATA with RAID 0/1for HDD's	4 port for internal SAS HDDs, with RAID 0/1 for Windows and Linux
SATA Controller	2-port SATA 300 with RAID 0, 1	
SATA Controller type notes	for easy change SATA hard disks (hot-plug	

2 x low profile (one of these can be us	and an atandard abort 175mm)
2 x low profile (one of these can be as	sed as standard short, 175mm)
1 x 5.25/0.5-inch for CD-RW/DVD 1 x 3.5/0.5-inch for ServerView Local	Service Panel
2 x 3.5-inch easy change SATA	2 x 3.5-inch hot-plug SAS/SATA
2 x 3.5-inch hot-plug SATA	-
On/off switch NMI button	
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)	
Optional: ServerView Local Service Panel (LSP)
•	
ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows Local and remote update via ServerVi SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support	
Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux Note: Support of other Linux derivative	es on demand
http://ts.fujitsu.com/software http://docs.ts.fujitsu.com/dl.aspx?id=a	9e600b9-e4cb-4f48-aa41-632f69058421
ServerView Suite: SV Installation Manager SV Operation Mananger SV RAID Manager SV Update Manager SV Agents Online update packages for BIOS, firn ServerView Integration solutions for M Deployment Solution ServerView Deployment Manager (full	ficrosoft SMS, MOM, SCOM, SCCM and Altiris
ServerView Integration for Tivoli TEC@ OpenView iRMC S2 Advanced Pack	Tivoli NetView, HP OpenView NNM and HP
Regarding Operating System depende Software Products see dedicated Products	encies and product details for ServerView Suite duct Data sheets.
430 x 560 x 42.5 mm	
575 mm	
1 U	
200 mm cable depth	
	2 x 3.5-inch easy change SATA 2 x 3.5-inch hot-plug SATA On/off switch NMI button 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) Optional: ServerView Local Service Panel (LSP ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows Local and remote update via ServerVi SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux Note: Support of other Linux derivative http://ts.fujitsu.com/software http://docs.ts.fujitsu.com/dl.aspx?id=a ServerView Suite: SV Installation Manager SV Operation Mananger SV Agents Online update packages for BIOS, firr ServerView Integration solutions for M Deployment Solution ServerView Integration solutions for M Deployment Solution ServerView Integration for Tivoli TECG OpenView iRMC S2 Advanced Pack Regarding Operating System depends Software Products see dedicated Products 430 x 560 x 42.5 mm 575 mm 1 U

Dimensions / Weight	
Weight	up to 12 kg
Weight notes	Weight may vary depending on actual 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)	34 dB(A) (idle) / 46 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	4.9 B (idle) / 6.1 B (operating)
Operating ambient temperature	15 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Electrical values	- Control Cont
	1v etandard nower aunaly
Power supply configuration	1x standard power supply 350 W
Standard power supply output	
Rated voltage range	100 - 127 V / 200 - 240 V
Rated frequency range	50 - 60 Hz
Rated current max.	4 A
Active power max. (per system unit)	177 W
Apparent power max. (per system unit)	
Heat emission	637.2 kJ/h (604.1 BTU)
Compliance	
Germany	GS
Europe	CE
JSA/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	
lard disk drives	SATA, 3 Gb/s, 1000 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 750 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 750 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 500 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 250 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 GB/s, 160 GB, 7200 rpm, 10t plug, 3.5-inch
	SAS, 3 Gb/s, 450 GB, 15000 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 300 GB, 15000 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch
	SAS, 3 Gb/s, 73 GB, 15000 rpm, hot plug, 3.5-inch
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software No mix of SAS and SATA HDDs possible
Optical drives	Blu-ray combo drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
	DVD Super Multi, (8x DVD/DVD+RW, 6x DVD-RW, 5x DVD-RAM; 24x CD/CD-R, 16x C RW), slimline, SATA I

ext 4 ports ext. Gigabit CT Desktop Adapter PRO/1000 PF Server Adapter PRO/1000 PT Server Adapter PRO/1000 PT Dual Port Server Adapter PRO/1000 PT Quad Port Server Adapter
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® PRO/1000 PT Quad Port Server Adapter
1 100 1000 1 1 Quad 1 of Colver / Adapter
ENTER- and 3rd-party racks
n (760mm), tool less mounting
ction (524mm), tool less mounting
ne: 4h
tservice

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