

Data Sheet FUJITSU Server PRIMERGY RX1330 M1 rack server

Datasheet for Red Hat certification

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

FUJITSU Server PRIMERGY systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as density-optimized scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in daily operations in order to turn IT faster into a business advantage.

FUJITSU Server PRIMERGY RX rack systems are versatile rack-optimized servers providing best-inclass performance and energy efficiency, and thus form the "standard" in each datacenter. PRIMERGY RX servers deliver 20 years of development and production know-how resulting in extremely low failure rates below market average, and leading to continuous operations and outstanding hardware availability.

PRIMERGY RX1330 M1

The FUJITSU Server PRIMERGY RX1330 M1 is a mono-socket 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 32 GB RAM, up to 3 PCIe slots and up to 10 hard disk drives. Moreover, this 1U server allows for diverse individual configurations with optional features, such as hot-plug power supply units, redundant fans, RAID controller and support for pGFX integrated server graphics for fast media processing. By delivering high energy efficiency and operation in higher ambient temperature thanks to optional Cool-safe® Advanced thermal Design, the PRIMERGY RX1330 M1 also contributes to very low operational costs. ServerView™ suite

and remote management features (iRMC S4) simplify the administration.

















Features & Benefits

Main Features **Benefits** Low in costs Clear reduction in energy costs ■ High energy efficient ■ 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 ambient temperature energy costs for air-conditioning Flexible foundation for infrastructure tasks ■ Intel Xeon processor E3-1200 v3 and up to 32 GB RAM, up to 3 PCle Cost-optimized foundation for file, infrastructure and slots and up to 10 storage drives communication applications ■ Free choice: Up to 4x 3.5-inch or up to 10x 2.5-inch storage drives ■ Flexible to meet the individual demand Optional pGFX Server Graphics Huge storage capacity fulfills requirements of storage demanding application or services ■ Unprecedented media transcoding performance Rich set of optional features ■ Choice of Intel Xeon E3 v3, Core i3, Celeron and Pentium processors ■ Perfectly meet the performance requirements with available budget ■ Modular RAID controllers ■ Match redundancy requirements with available budget ■ Redundant fans ■ Hot-plug and redundant power supply (PSU) with 80 PLUS platinum energy efficiency (94 %) ■ Full-height PCle slot

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Technical details

PRIMERGY RX1330 M1						
Base unit		RX1330 M1 LFF	RX1330 M1 LFF	RX1330 M1 SFF	RX1330 M1 SFF	RX1330 M1 SFF 10xSFF
Housing types		Rack	Rack	Rack	Rack	Rack
Storage drive architectu	re	3.5-inch SAS/SATA	3.5-inch SAS/SATA	2.5-inch SAS/SATA	2.5-inch SAS/SATA	2.5-inch SAS/SATA
Power supply		Standard	Hot-plug	Standard	Hot-plug	Hot-plug
Mainboard						
Mainboard type		D3229				
Chipset		Intel® C226				
Processor quantity and	type	1 x Intel® Xeon® prod	cessor E3-1200v3 produ	ct family / Intel® Celeror	n® processor	
_ 	Intel® Celeron® ¡ (2C/2T, 2.70 GH:		o, Mem bus: 1,333 MHz	, 54 W)		
		ocessor E3-1220v3 z, TLC: 8 MB, Turbo: 3.	30 GHz, Mem bus: 1,60	0 MHz, 80 W)		
		ocessor E3-1231v3	CO CIL M	0.000		
		z, TLC: 8 MB, Turbo: 3. ocessor E3-1240Lv3	60 GHz, Mem bus: 1,60	U IVIHZ, 8U W)		
			80 GHz, Mem bus: 1,60	0 MHz, 25 W)		
- - - -		ocessor E3-1241v3 z, TLC: 8 MB, Turbo: 3.	70 GHz, Mem bus: 1,60	0 MHz, 80 W)		
		ocessor E3-1271v3				
			80 GHz, Mem bus: 1,60	0 MHz, 80 W)		
<u>(</u> (1		ocessor E3-1275Lv3 z, TLC: 8 MB, Turbo: 3.	30 GHz, Mem bus: 1,60	0 MHz, 45 W)		
		ocessor E3-1281v3 z, TLC: 8 MB, Turbo: 3.	90 GHz, Mem bus: 1,60	0 MHz, 82 W)		
		ocessor E3-1286v3 z, TLC: 8 MB, Turbo: 3.	90 GHz, Mem bus: 1,60	0 MHz, 84 W)		
Memory slots		4 (2 banks with 2 DI	MMs each)			
Memory slot type		DIMM (DDR3) UDIM/	N			
Memory capacity (min.	- max.)	2 GB - 32 GB				
Memory protection		ECC				
Memory notes		Dual channel suppor per channel has to b		ormance, a minimum ol	² 2 memory modules ha	ve to be ordered. Capacity
Memory options		4 GB (1 module(s) 4	GB) DDR3, unbuffered,	ECC, 1,600 MHz, PC3-12	800, DIMM, single rank	
, .		8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank				
nterfaces						
		4 x (2x rear, 2x inter	nal) (10x SFF base unit	: 1x front, 2x rear, 2x int	ernal)	
JSB 2.0 ports			nal) (10x SFF base unit ') (10x SFF base unit: 2>		ernal)	
USB 2.0 ports USB 3.0 ports		4 x (2x front, 2x rea	r) (10x SFF base unit: 2>			
JSB 2.0 ports JSB 3.0 ports Graphics (15-pin)		4 x (2x front, 2x real 1 x VGA (15-pin) / o	r) (10x SFF base unit: 2>	crear) ot for 10x 2,5" HDD base		
USB 2.0 ports USB 3.0 ports Graphics (15-pin) Serial connection		4 x (2x front, 2x real 1 x VGA (15-pin) / o	r) (10x SFF base unit: 2x ptional 1 x front VGA (no	crear) ot for 10x 2,5" HDD base		
USB 2.0 ports USB 3.0 ports Graphics (15-pin) Serial connection LAN / Ethernet (RJ-45)	i)	4 x (2x front, 2x read 1 x VGA (15-pin) / o 1 x serial RS-232-C, 2 x Gbit/s Ethernet 1 x dedicated manage	t) (10x SFF base unit: 2x otional 1 x front VGA (no usable for iRMC S4 or sy gement LAN port for iRN	crear) ot for 10x 2,5" HDD base	e unit)	
USB 2.0 ports USB 3.0 ports Graphics (15-pin) Serial connection LAN / Ethernet (RJ-45) Management LAN (RJ45		4 x (2x front, 2x read 1 x VGA (15-pin) / o 1 x serial RS-232-C, 2 x Gbit/s Ethernet 1 x dedicated manage	t) (10x SFF base unit: 2x otional 1 x front VGA (no usable for iRMC S4 or sy gement LAN port for iRN	c rear) ot for 10x 2,5" HDD base stem or shared IC S4 (10/100/1000 Mbi	e unit)	
USB 2.0 ports USB 3.0 ports USB 3.0 ports Graphics (15-pin) Serial connection LAN / Ethernet (RJ-45) Management LAN (RJ45) Onboard or integrated (RAID controller		4 x (2x front, 2x read 1 x VGA (15-pin) / o 1 x serial RS-232-C, 2 x Gbit/s Ethernet 1 x dedicated management LAN transport	c) (10x SFF base unit: 2x ptional 1 x front VGA (no usable for iRMC S4 or sy gement LAN port for iRN affic can be switched to por RAID 5/6 controller (o	ot for 10x 2,5" HDD base estem or shared IC S4 (10/100/1000 Mbi shared onboard Gbit LA	e unit) t/s) N port	
USB 2.0 ports USB 3.0 ports Graphics (15-pin) Serial connection LAN / Ethernet (RJ-45) Management LAN (RJ45) Onboard or integrated (4 x (2x front, 2x real 1 x VGA (15-pin) / o 1 x serial RS-232-C, 2 x Gbit/s Ethernet 1 x dedicated manag Management LAN tra Integrated RAID 0/1 additional RAID cont Intel® C226, 1 port u	c) (10x SFF base unit: 2x ptional 1 x front VGA (not usable for iRMC S4 or sy pement LAN port for iRM affic can be switched to per RAID 5/6 controller (coroller options are described for accessible drive	c rear) ot for 10x 2,5" HDD base rstem or shared IC S4 (10/100/1000 Mbi shared onboard Gbit LA	e unit) t/s) N port RAID controller	

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Onboard or integrated Controller				
Remote management 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 4 port SATA with RAID 0/1/10 for HDDs			
SATA Controller	4-port SATA 6Gb with RAID (4-port SATA 6Gb with RAID 0, 1, 10 4-port SATA 3GB with RAID 0, 1, 10		0, 1, 10
SATA controller type notes	for hot-plug SATA hard disks	5	for hot-plug SATA hard disk	S
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 h	neight PCle Gen3 x8 card, instea	ad of 1x PCIe Gen2 x4 and 1x I	PCle Gen3 x8
Drive 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 applie	es to 10x 2.5-inch HDD base un	it: No CD-RW/DVD, 1x USB 2.0	at the front, no front VGA
Drive bays (Base unit specific)				
Storage drive bays	Max. 4x 3.5-inch	Max. 8x 2.5-inch	Max. 1	0x 2.5-inch
Number of fans	4			
Fan notes	4 fans in combination with standard power supply or 5 fans in combination with hot-plug PSU base unit for 1+4 redundancy.		g PSU base unit for 1+4	
Number of fans	4	5	4	5
Fan configuration	4 standard fan	5 redundant fan	4 standard fan	5 redundant fan
Fan 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				

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Operating Systems and Virtualization S	ioftware
Certified or supported operating	Microsoft® Hyper-V Server 2012 R2
systems and virtualization software	Microsoft® Windows Server® 2012 R2 Datacenter
	Microsoft® Windows Server® 2012 R2 Standard
	Microsoft® Windows Server® 2012 R2 Essentials
	Microsoft® Windows Server® 2012 R2 Foundation
	Microsoft® Windows Storage Server 2012 R2 Standard
	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
	VMware vSphere™ 5.1 Embedded
	VMware vSphere™ 5.1
	SUSE® Linux Enterprise Server 11
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
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.
Server Management	
Standard	
Option	ServerView Suite - Maintain iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media ServerView Suite - Dynamize Virtual-IO Manager (VIOM) ServerView Suite - Integrate Integration pack for Fujitsu ManageNow® solution
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	1 U
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
	Nack integration kit as option
Environmental	
Operating ambient temperature	5 - 40 °C (41 - 104 °F)
Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed informatio see relevant system configurator.
	see relevant system computator.
Operating relative humidity	10 - 85 % (non condensing)
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Operating relative humidity Operating environment Operating environment link	10 - 85 % (non condensing)
Operating environment	10 - 85 % (non condensing) FTS 04230 – Guideline for Data Center (installation specification)

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Environmental	
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: http://configurator.ts.fujitsu.com/public/
Apparent power (max. configuration)	199 VA
Heat emission	709.2 kJ/h (672.2 BTU/h)
Compliance	
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Germany	GS
Europe	CE Class A *
USA/Canada	CSAc/us ULc/us FCC Class A
Japan	VCCI
Russia	GOST
South Korea	KC
China	
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
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.

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Components

Storage drives	SSD SATA, 6 Gb/s, 200 GB, Mainstream Endurance, hot-plug, 3.5-inch, enterprise
	SSD SATA, 6 Gb/s, 200 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 100 GB, Mainstream Endurance, hot-plug, 3.5-inch, enterprise
	SSD SATA, 6 Gb/s, 100 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 3 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 146 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim, SATA I
F	DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I
MID Controller	<u> </u>
AID Controller	RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, Fujitsu PRAID EP420i, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
	RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, Fujitsu PRAID EP400i, 8 ports int.
	RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108
	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 for selected systems (based on LSI SAS2108)
	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
ommunication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCle 1.1 x1 (Intel®)
	Ethernet Ctrl. 1 x 1 Gbit/s PCle 2.1 x1 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.0 x8 (Fujitsu)
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 (Intel®)
	Ethernet Ctrl. 2 x 1 Gbit/s PCle 2.1 x4 (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s PCle 2.1 x4 (Intel®)
ack 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
tandard Warranty	1 year
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Warranty	
Service level	Onsite Service
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM
Maintenance and Support Services	- 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

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY RX1330 M1, 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 RX1330 M1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/fts

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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