Data Sheet
Fujitsu PRIMERGY RX1330 M2 Server

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



PRIMERGY RX1330 M2

The FUJITSU Server PRIMERGY RX1330 M2 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 or collaboration applications by delivering up to 64 GB RAM, up to 3 PCIe slots and up to 10 2.5-inch hard disk drives. Moreover, this 1U server allows for diverse individual configurations with optional features, such as hot-plug power supply units, redundant fans and RAID controller. By delivering high energy efficiency and operation in higher ambient temperature thanks to optional Cool-safe® Advanced Thermal Design, the PRIMERGY RX1330 M2 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	
■ High energy efficient	■ Clear reduction in energy costs saving OPEX
■ Fujitsu ServerView™ suite and onboard remote management features (iRMC S4) enables centralized management	■ Comprehensive and simplified management reduce time for standard administration tasks
■ Cool-safe® Advanced Thermal Design enables operation in a higher ambient temperature	■ Each additional degree means approximately 5-6 percent less energy costs for air-conditioning
Flexible foundation for infrastructure tasks	
■ Intel Xeon processor E3-1200 v5 and up to 64 GB DDR4 memory, up to 3 PCIe slots and up to 10 storage drives	■ Cost-optimized foundation for file, infrastructure and 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, the huge storage capacity fulfills requirements of storage demanding application or services
■ Broad selection of operating systems	■ Red Hat Linux, Suse Linux, Microsoft Windows Server - it's up to you
Rich set of optional features	
■ Choice of Intel Xeon E3 v5, Core i3, Celeron and Pentium processors	■ Perfectly meet the performance requirements with available budget
■ Modular RAID controllers	
■ Redundant fans	■ Match redundancy requirements with available budget
■ Hot-plug and redundant power supply (PSU) with 80 PLUS platinum energy efficiency (94 %)	
■ Full-height PCIe slot	
Integrated UPS - Easy & reliable	
■ The Fujitsu FJBU internal battery backup is an alternative for classical UPS devices	■ Keeps the server running during short blackouts or voltage fluctuations and enables a graceful shutdown
■ Compact battery unit that fits into modular PSU slot	■ Same life time as the server – no maintenance necessary
■ Ni-MH battery allows for a very long life time (5 years)	■ Easy and clean setup: no cabling, no separate device
■ Full integration into server management environment	

Technical details

PRIMERGY RX1330 M2	
Mainboard	
Mainboard type	D3375
Chipset	Intel® C236
Processor quantity and type	1 x Intel® Xeon® processor E3-1200 v5 product family / Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Celeron® processor
Graphics add on cards	Professional 2D: NVIDIA® NVS™315 LP, PCIe x16, 2 x DVI/VGA
Processor	Intel® Xeon® processor E3-1260Lv5 (4C/8T, 2.90 GHz, 2,133 MHz)
	Intel® Xeon® processor E3-1240Lv5 (4C/8T, 2.10 GHz, 2,133 MHz)
Memory slots	4 (2 banks with 2 DIMMs each)
Memory slot type	DIMM (DDR4)
Memory capacity (min. - max.)	4 GB - 64 GB
Memory protection	ECC
Memory notes	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same.
Interfaces	
USB 3.x ports	6 x (2x front, 4x rear) (10x 2.5" HDD base unit: 1x USB 2.0, 4x rear USB 3.0)
Graphics (15-pin)	1 x VGA (15-pin) / optional 1 x front VGA (not for 10x 2.5" HDD base unit)
Serial connection	1 x serial RS-232-C, usable for iRMC S4 or system or shared
LAN / Ethernet (RJ-45)	2 x 1 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) All hardware storage controller options are described under Components
SATA Controller	Intel® C236, 1 port used for accessible drive or SATA DOM 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;
LAN Controller	Intel® i210 onboard 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) iSCSI, PXE-Boot and WoL are supported
Remote management controller	Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller) IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon / TPM 1.2 or TPM 2.0 module; TCG compliant (option)
Slots	
PCI-Express 3.0 x4	1 x Low profile
PCI-Express 3.0 x8	2 x Low profile Length 175mm; PCIe slot#1 = dedicated Modular RAID slot
Slot Notes	Optional support of 1x full height PCIe Gen3 x8 card, instead of 1x PCIe Gen2 x4 and 1x PCIe 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
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
Fan Configuration	
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.
Operating panel	
Operating buttons	On/off switch NMI button Reset button

Operating panel	
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	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Linux versions Local and remote update via ServerView Update Manager Remote PXE boot support Remote iSCSI boot support

Operating Systems and Virtualization Software	
Certified or supported operating systems and virtualization software	Hyper-V Server 2016
	Windows Server 2016 Datacenter
	Windows Server 2016 Standard
	Windows Server 2016 Essentials
	Windows Storage Server 2016 Standard
	Hyper-V Server 2012 R2
	Windows Server 2012 R2 Datacenter
	Windows Server 2012 R2 Standard
	Windows Server 2012 R2 Essentials
	Windows Server 2012 R2 Foundation
	Windows Storage Server 2012 R2 Standard
	Hyper-V Server 2012
	Windows Server 2012 Datacenter
	Windows Server 2012 Standard
	Windows Server 2012 Essentials
	Windows Server 2012 Foundation
	Windows Storage Server 2012 Standard
	Hyper-V™ Server 2008 R2
	Windows Server 2008 R2 Datacenter
	Windows Server 2008 R2 Enterprise
	Windows Server 2008 R2 Standard
	Windows Server 2008 R2 Foundation
	VMware vSphere™ 6.5
	VMware vSphere™ 6.0
	VMware vSphere™ 5.5
	SUSE® Linux Enterprise Server 12
	SUSE® Linux Enterprise Server 11
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
	Oracle® Linux 6
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473

Operating Systems and Virtualization Software	
Operating system notes	VMware ESX hints: - SATA RAID is not supported - Storing virtual machines locally requires a SAS RAID Controller Support of other Linux derivatives on demand Red Hat® certification starting with version 5.8 / 6.4. Hardware requirements of Software Defined Storage supported by i.e. Microsoft Storage Spaces or VMWare vSAN please see Systemarchitect or paper configurator or datasheet of PSAS CP400i.

Server Management	
DC Infrastructure Management	ServerView Suite - Deploy Installation Manager Scripting Toolkit ServerView Suite - Control Operations Manager incl. PDA and ASR & R Agents and CIM Providers / Agentless Service System Monitor RAID Manager Capacity Management Power Management Storage Support ServerView Suite - Maintain Remote Management (iRMC) Update Management (BIOS, Firmware, Windows Drives and SV Agents) Performance Measurement Asset Management Online Diagnostics ServerView Suite - Integrate Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM Deployment tools and others
Server Management	ServerView embedded Lifecycle Management (eLCM) Lifecycle management ServerView Suite - Maintain iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media ServerView Suite - Dynamize Virtual-IO Manager (VIOM)
Management notes	Regarding 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	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

Environment	
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. Please use the Fujitsu WebArchitect (www.fujitsu.com/configurator/public) to get detailed information on the corresponding configurations.
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0
Sound pressure (LpAm)	25 / 35 dB(A) (min / max idle), 25 / 35 db(A) (min / max operating)
Sound power (LWAd; 1B = 10dB)	4.1 / 5.1 B (min / max idle), 4.1 / 5.1 B (min / max operating)
Noise notes	Noise emissions and operation modes depend on system configuration.

Electrical values	
Power supply configuration	1x standard power supply or1x hot-plug power supply or 2x hot plug power supplies for redundancy depending on model

Electrical values	
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	152 W
Apparent power (max. configuration)	155 VA
Heat emission (max. configuration)	547.2 kJ/h (518.6 BTU/h)
Rated current max.	4.0 A (100 V) / 2.0 A (240 V)
Active power note	To estimate the power consumption of different configurations use the Fujitsu Product Configurator: www.fujitsu.com/configurator/public
Power supply	300W standard, 92% (Gold efficiency), 100-240V, 50 / 60Hz 450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz
Power supply notes	Power Safeguard adapts system performance in case the power requirements exceeds supply limits.
Battery backup	Fujitsu Battery Unit 380W, 12V (as option)
Compliance	
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment)
Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
Russia	GOST
South Korea	KC
China	CCC
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance link	https://sp.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.

Components

Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim, SATA I
	DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I
Drives	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
SCSI / SAS Controller	Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8

RAID Controller	Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50, No FBU support
Communication, Network	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 SFP+ (Fujitsu)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
Graphics add on cards	NVIDIA® NVS™315 LP, N/A, PCIe x16, 2 x DVI/VGA
Rack infrastructure	Rackmount kit full extraction (665mm), tool less mounting, length variable 559-914mm
	Rackmount kit tool less mounting
	Cable Management 1U for PRIMECENTER- and 3rd-party racks
Warranty	
Warranty period	1 year
Warranty type	Onsite warranty
Product Support - the perfect extension	
Support Pack Options	Globally available in major metropolitan areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Spare Parts availability	
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY RX1330 M2, 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.

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More information

Learn more about Fujitsu PRIMERGY RX1330 M2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/global/products/computing/servers/primergy/rack/rx1330m2/

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