Data Sheet
FUJITSU Server PRIMERGY RX1330 M1 rack server

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

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	
■ High energy efficient	■ Clear reduction in energy costs
■ 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 v3 and up to 32 GB RAM, 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
■ 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 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 M1

Mainboard

Mainboard type	D3229
Chipset	Intel® C226
Processor quantity and type	1 x Intel® Xeon® processor E3-1200 v3 product family / Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Celeron® processor
Memory slots	4 (2 banks with 2 DIMMs each)
Memory slot type	DIMM (DDR3) UDIMM
Memory capacity (min. - max.)	2 GB - 32 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 2.0 ports	4 x (2x rear, 2x internal via UFM) (10x SFF base unit: 1x front, 2x rear, 2x internal)
USB 3.0 ports	4 x (2x front, 2x rear) (10x SFF base unit: 2x rear)
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 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® C226, 1 port used for accessible drive 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 module; TCG compliant (option)

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 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 as soon as released
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

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
	Support of other Linux derivatives on demand
	Red Hat® certification starting with version 5.8 / 6.4.

Server Management

Standard	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 in combination with Intel® Node Manager)
	Update Management (BIOS, Firmware, Windows Drivers, Agents and CIM Providers)
	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
Option	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)
Server 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

Dimensions / Weight

Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option

Environment

Operating ambient temperature	5 - 40 ℃ (41 - 104 °F)
Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 ℃ or below 10 ℃) depending on configuration. For detailed information see relevant system configurator.
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)	24 / 34 dB(A) (min / max idle), 28.5 / 34 db(A) (min / max operating)
Sound power (LWAd; 1B = 10dB)	3.7 / 5.1 B (min / max idle), 4.2 / 5.5 B (min / max operating)
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature.

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
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	197 W
Apparent power (max. configuration)	199 VA
Heat emission (max. configuration)	709.2 kJ/h (672.2 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 Power Calculator of the System Architect: http://configurator.ts.fujitsu.com/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. !96% Titanium Power supply unit is only released for 200-240V
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

Warranty	
Warranty period	1 year
Warranty type	Onsite warranty
Product 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 (depending on country) 24x7, 4h Onsite Response Time (depending on country)
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEIA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

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.

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/products/computing/

Software

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More information

Learn more about Fujitsu PRIMERGY RX1330 M1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://www.fujitsu.com/fts/products/computing/servers/primergy/rack/rx1330m1/

Fujitsu green policy innovation

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