

# Data Sheet

## Fujitsu PRIMERGY RX1330 M4 Server

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

server for many SMBs across all industries.

### PRIMERGY RX1330 M4

The FUJITSU Server PRIMERGY RX1330 M4 is a highly reliable and energy-efficient single-socket rack server designed to deliver optimal performance and value in a compact 1U. Equipped with the right compute and memory for efficient utilization of resources, it is best suited for small and medium businesses providing a cost-efficient foundation for wide range of workloads like file, web hosting, infrastructure, communication, collaboration, and virtualization. The PRIMERGY RX1330 M4 refresh gets a performance boost with latest Intel® Xeon® E-2200 processors supporting up to 8 cores and higher memory capacity of 128GB DDR4 memory at speed up to 2,666 MT/s. It also provides versatile storage options with the advantage of high-speed, low latency 4x2.5-inch NVMe PCIe SSDs. 2x M.2 devices and Dual microSD are provided for efficient boot requirements. The FUJITSU Server PRIMERGY RX1330 M4 provides many features to guarantee high reliability and availability, such as the optional Fujitsu Battery Backup Unit, hot-plug redundant fans, hot-plug redundant power supplies, and modular RAID controllers. By delivering high energy efficient PSUs and operation in higher ambient temperature driven by optional Cool-safe® Advanced Thermal Design, the PRIMERGY RX1330 M4 contributes to very low operational costs. It provides a simple design for easy serviceability and comes along with the latest integrated Remote Management Controller (iRMC S5) to simplify server management. ISM Essential which is available free of charge provides essential server management functions. Whether it is used for a start-up or expanding business, the PRIMERGY RX1330 M4 is an ideal choice of entry



# Features & Benefits

Main Features	Benefits
<p>Advanced features for enhanced performance</p> <ul style="list-style-type: none"><li>■ Wide choice of latest Intel® Xeon® E-2200/E-2100 processor family for servers with upto 8 cores, as well as affordable Intel® Core i3 or Pentium or Intel® Celeron® processors. Supports higher memory capacity of up to 128 GB with up to four 32 GB DDR4 @ 2,666 MT/s, high-speed storage and a wide range of networking technologies.</li></ul> <p>Improved Scalability for future growth</p> <ul style="list-style-type: none"><li>■ Great storage options expandable up to 10x2.5-inch or 4x3.5-inch disk drives, with an advantage of 4x2.5-inch NVMe PCIe SSDs, 2x M.2 modules (1x SATA; 1x NVMe/SATA) with Dual microSD and USB Gen 3.1 Gen 2 for external connectivity. Also includes 3 x PCIe Gen 3 slots, 2x1 Gbit Onboard LAN with advanced 10GbE/25GbE high-speed networking options.</li></ul> <p>Enterprise-class reliability and operational efficiency</p> <ul style="list-style-type: none"><li>■ Rock-solid reliability with optional Fujitsu Battery Backup Unit, hot plug redundant fans and modular RAID controllers with up to 8GB cache. Highly efficient 450W (94% efficiency) hot plug power supplies and Fujitsu's Cool-safe® Advanced Thermal Design supports higher ambient temperatures up to 45 degrees in the data center.</li></ul> <p>Simplified Infrastructure and Server Management</p> <ul style="list-style-type: none"><li>■ Embedded with iRMC S5 for wide remote management functions. In addition FUJITSU Software Infrastructure Manager (ISM) provides converged management across multiple data centers. The new ISM Essential license, available free-of-charge provides essential server management and converged monitoring functions.</li></ul>	<ul style="list-style-type: none"><li>■ Significant performance gains with latest generation processors, a higher number of cores and larger memory. Accelerated performance for virtualization workloads and wide range of SMB workloads including media streaming, caching and web hosting.</li><li>■ Scalable storage, plus a broad range of networking choices and PCIe slots provide flexible expansion options for future scalability.</li><li>■ Maximize uptime and savings in energy and cooling costs with highly energy-efficient, redundant components. Battery backup keeps the server running during short blackouts or voltage fluctuations and enables a graceful shutdown.</li><li>■ Fujitsu iRMC S5 enhances server administrator productivity with a variety of user-friendly features for remote management. Fujitsu ISM improves data center efficiency and overall IT productivity, paving the path for a software-defined data center.</li></ul>

# Technical details

## PRIMERGY RX1330 M4

### Mainboard

Mainboard type	D3675
Chipset	Intel® C246
Processor quantity and type	1 x Intel® Xeon® E-2200 processor family / Intel® Xeon® E-2100 processor family / Intel® Celeron® processor / Intel® Core™ i3 processor / Intel® Pentium® processor
Memory slots	4 (2 banks with 2 DIMMs each)
Memory slot type	DIMM (DDR4)
Memory capacity (min. - max.)	4 GB - 128 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.x ports	2 Rear: 2x USB 2.0 for all base units. Front (only 10x 2.5" HDD): 1x USB 2.0
USB 3.x ports	4 Rear: 2x 3.1 Gen2 for all base units, Front (except 10x 2.5" HDD): 2x USB 3.1 Gen1
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 Optional
LAN / Ethernet (RJ-45)	2 x 1 Gbit/s Ethernet
Management LAN (RJ45)	Management LAN traffic can be switched to shared onboard Gbit LAN port 1 x dedicated management LAN port for iRMC S5 (10/100/1000 Mbit/s)

### 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® C246, 1 port used for accessible drive or SATA DOM 4 port for internal SATA HDD/SSD 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 S5, 512 MB attached memory incl. graphics controller)
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 supports Modular RAID functions
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 SATA/SAS (Up to 4x NVMe PCIe SSD supported) or 4x 3.5-inch hot-plug or 10 x 2.5-inch hot-plug SATA/SAS
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	5
Fan notes	Hot Plug Fans - 4 fans in combination with standard power supply or 5 fans in combination with hot-plug PSU base unit for 4+1 redundancy.

### Operating panel

Operating buttons	On/off switch NMI button Reset button
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## 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)
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## 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
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## Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	Windows Server 2019 Datacenter Windows Server 2019 Standard Windows Server 2019 Essentials Windows Server Datacenter, version 1809 Windows Server Standard, version 1809 VMware vSphere™ 6.7 Red Hat® Enterprise Linux 8
Operating system release link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473</a>
Operating system notes	RHEL 7.5 and SLES 15 GA are not supported for the new CPUs including the Intel® Xeon® E-2200 product family. 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.

## Infrastructure and Server Management

DC Infrastructure Management	Infrastructure Manager (ISM) Essential Edition Advanced Edition
Server Management	Infrastructure Manager (ISM) Essential Edition Advanced Edition ServerView Suite
Management notes	For further information regarding ISM and ServerView Suite see dedicated 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 - 45 °C (41 - 113 °F)
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**Environment**

Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. Please use the Fujitsu WebArchitect ( <a href="http://www.fujitsu.com/configurator/public">www.fujitsu.com/configurator/public</a> ) 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	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>
Sound pressure (LpAm)	24 / 52 dB(A) (min / max idle), 26 / 40 dB(A) (min / max operating)
Sound power (LWAd; 1B = 10dB)	4.2 / 7 B (min / max idle), 4.2 / 5.8 B (min / max operating)
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 depending on model
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	264 W
Apparent power (max. configuration)	267 VA
Heat emission (max. configuration)	950.4 kJ/h (900.8 BTU/h)
Rated current max.	4.5 A (100 V) / 2.0 A (240 V)
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**

Product	PRIMERGY RX1330 M4
Model	PR1330
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic 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	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>
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

<b>RAID Controller</b>	Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516
<b>Graphics add on cards</b>	NVIDIA® Quadro® P400 , 2 GB, N/A, PCIe x16, 3 x miniDP

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
Service Weblink	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>

# More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY RX1330 M4, 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 M4, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
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Fujitsu green policy innovation

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Contact  
FUJITSU LIMITED  
Mies-van-der-Rohe-Straße 8  
80807 München  
Germany  
Website: [www.ts.fujitsu.com](http://www.ts.fujitsu.com)  
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