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Data Sheet
Fujitsu PRIMERGY RX2530 M7 Rack Server

Maximum productivity in a 1U housing

Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. Fujitsu PRIMERGY servers deliver workload-optimized x86 industry standard systems for any workload and business demand. Since there is no single server solution to meet all these needs, Fujitsu offers a broad server portfolio consisting of expandable tower servers, versatile rack-mount servers, density-optimized multi-node servers as well as GPU servers purpose-built for the demands of AI and VDI. While all these systems are designed to handle multiple workloads, each server is optimized for specific use cases. Whatever the size of your business – large enterprise with multiple sites, or a small or medium-sized company with limited space and budget – with the right choice of server, your IT can become the business enabler you have always wanted it to be.

PRIMERGY RX2530 M7
The Fujitsu PRIMERGY RX2530 M7 server in a dense 1U chassis is based on a dual-socket x86 platform providing an ideal combination of performance and scalability for most data centers. The PRIMERGY RX2530 M7 is ideal for AI workloads, HPC infrastructures, virtualization, databases as well as scale-out scenarios. It supports the latest 4th generation Intel® Xeon® Scalable Processors with up to 60 cores in a standard socket and four UPI 2.0 links resulting in a performance improvement of more than 40% compared to the previous generation processors. New High Bandwidth Memory (HBM) with up to 1 TB/s support the performance boost. The integration of Compute Express Link (CXL) supports 4x 16 devices and provides a large amount of memory capacity 8 TB (DDR5 / Intel PMem) with 32 DIMM slots delivering once more excellent results for even the most demanding applications and workloads. Beside the DDR5

memory modules with speeds of up to 4,800 MT/s, it is also possible to combine them with the latest Intel® Optane™ persistent memory 300 series that delivers an affordable large capacity. Get a broad choice for storage flexibility with up to 4x 3.5" SAS/SATA, up to 10x 2.5" SAS/SATA/NVMe storage devices. In addition, two further 2.5" storage devices are available as an option on the rear of the chassis. The PRIMERGY RX2530 M7 supports the new PCIe 5.0 interface and SAS 24G for upcoming devices. A total of three such interfaces are available. It also provides two onboard LAN adapters via OCP v3. With Platform Firmware Resilience (PFR) functionality, as one example of integrated security for all servers and proven reliability help to provide a maximum uptime in enterprise data centers. Optionally available is a front locking bezel to avoid unauthorized physical access directly in the data center. All new and optimized security features should help to secure sensitive workloads and enable new opportunities to unleash the power of data. With the Fujitsu Infrastructure Manager (ISM) as well as the integrated next generation Remote Management Controller (iRMC S6), even more complex workloads and administration tasks are simplified for transparent management of your server and the IT infrastructure so you can focus on your business objectives.

intel. XEON

intel. OPTANE PERSISTENT MEMORY

Features & Benefits

Main Features	Benefits
OPTIMIZED PERFORMANCE AND DENSITY ■ Wide choice of different available types of 4th Generation Intel® Xeon® Scalable processors. Each processor offers up to 60 cores (depending on SKU), 16 memory channels, up to 4 Intel® Ultra Path Interconnect (UPI 2.0 at 16 GT/s) and PCI-Express 5 with up to 80 lanes (per socket) enabling a significantly higher performance and efficiency.	■ Ideal dual-socket platform for dense scale-out data center computing powered by latest 4th Generation Intel® Xeon® Scalable Processors with up to 60 cores per CPU.
POWER YOUR APPLICATIONS ■ 32 memory slots in total supporting 8 TB memory with DDR5 DIMM modules (@ 4,800 MT/s) or in combination with Intel® Optane™ persistent memory 300 series. Persistent memory improves workload performance and power efficiency while reducing data loss and downtime with enhanced error handling.	■ Combine performance and versatility to adapt to a variety of applications and meet future demands with 32 DIMM modules (16 of which can be PMem) and up to 8 TB of memory. Intel® Optane™ persistent memory provide fast, high capacity and cost effective memory for memory intensive workloads.
EASY EXPANDABILITY ■ Our server systems are built to scale easily to be able to adapt to a variety of applications and meet future demands. PRIMERGY RX2530 M7 comes with adapters via OCP V3 as well as flexible PCIe riser cards with support for up to 3x PCIe Gen5 / 1x PCIe Gen4 (dedicated for internal RAID Controller) slots. Different available base units with 4x 3.5-inch SAS/SATA, up to 8x/10x 2.5-inch SAS/SATA/NVMe support provide enormous expandability.	■ Benefit from the flexibility of 2.5", 3.5" storage devices for highest capacities with up to 10 drives per height unit (U) and additional expandability with up to 3 PCIe Gen5 /1x PCIe Gen4 (for Internal RAID controller) slots flexible adapters via OCP V3.
COMPREHENSIVE PROTECTION ■ PRIMERGY servers are equipped with beneficial features to protect against, detect and recover from security breaches (PFR, UEFI Secure Boot, TPM 2.0, signed firmware updates, agent-free device management, secure authorization and authentication, alerting and logging, secure Out of Band Management with iRMC S6, …).	■ Benefit from advanced security technologies such as Platform Firmware Resilience (PFR) to protect the most sensitive portions of a workload, encryption support to enhance data and VM protection as well as physical protection to avoid unauthorized access.
AGILE INFRASTRUCTURE MANAGEMENT ■ Infrastructure Manager (ISM) provides seamless, holistic management ensuring that IT infrastructures retain the dynamic flexibility required to support ever-changing business demands. Two versions of ISM are available. ISM Advanced is a powerful, fully featured version offering comprehensive infrastructure management capabilities such as support for multiple hardware configurations, physical and virtual network connection indicators and firmware baseline updates. A free entry-level version, ISM Essential, provides essential monitoring and firmware update of all supported devices, including servers, storage and network switches.	■ Infrastructure Manager (ISM) enables organizations to have centralized control over the infrastructure that includes servers, storage, networking management software as well as power and cooling using a single user interface.

Technical details

PRIMERGY RX2530 M7					
Base unit	PRIMERGY RX2530 M7 SFF	PRIMERGY RX2530 M7 LFF	PRIMERGY RX2530 M7 SFF	PRIMERGY RX2530 M7 SFF	PRIMERGY RX2530 M7 SFF
Housing types	Rack	Rack	Rack	Rack	Rack
Storage drive architecture	8x 2.5-inch SAS/SATA	4x 3.5-inch SAS/SATA	2.5-inch SAS/SATA	10x 2.5-inch SAS/SATA/PCIe	10x 2.5-inch SATA/NVMe
Power supply	Hot-plug	Hot-plug	Hot-plug	Hot-plug	Hot-plug
Product Type	Dual Socket Rack Server	Dual Socket Rack Server	Dual Socket Rack Server	Dual Socket Rack Server	Dual Socket Rack Server

Mainboard	
Mainboard type	D3982
Chipset	Intel® C741
Processor quantity and type	1 - 2 x Intel® Xeon® Bronze 3xxx processor / Intel® Xeon® Silver 4xxx processor / Intel® Xeon® Gold 5xxx processor / Intel® Xeon® Gold 6xxx processor / Intel® Xeon® Platinum 8xxx processor
Processor notes	no mix of different processor types
Memory slots	32 (16 DIMMs per CPU, 8 channels with 2 slots per channel)
Memory slot type	DIMM (DDR5 RDIMM and Intel® Optane™ PMem)
Memory capacity (min. - max.)	16 GB - 8 TB
Memory protection	ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring support
Memory notes	Max. 8 slots populated with PMem modules per CPU, please see relevant system configurator for details.
Memory modules notes	Max capacity maybe changed.

Interfaces	
USB 3.x ports	5 x USB 3.0 (2x front, 2x rear, 1x internal)
Graphics (15-pin)	2 x VGA (thereof 1x front optional - not for base unit with 10x 2.5" drives)
Serial 1 (9-pin)	1 x optional (occupies PCIe slot)
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S6 (10/100/1000 Mbit/s)
Interface notes	Management LAN traffic can be switched to shared onboard LAN controller port, speed and connector is related to installed interface card.

Onboard or integrated Controller	
RAID controller	All hardware storage controller options are described under Components For dedicated base units front AND rear storage drives may be connected to a single controller. Please see relevant system configurator for configuration options and restrictions.
SATA Controller	1x SATA channel for ODD, 2x SATA channel for M.2, 8x SATA channel for HDD/SSD

LAN Controller	Dynamic LoM via OCP slot; OCPv3 compliant
	Optional OCP adaptors:
	    4 x 1 Gbit/s Ethernet (RJ45)
	    2 x 10 Gbit/s Ethernet (RJ45)
	    4 x 10 Gbit/s Ethernet (RJ45)
	    2 x 10 Gbit/s SFP+
	    4 x 10 Gbit/s SFP+
	    2 x 25 Gbit/s SFP28
	    4 x 25 Gbit/s SFP28
	    2x 100 Gbit/s QSFP28
	All LAN controllers (for OCP slots and PCIe slots) are described under Components.
	For details, please refer to the relevant system configuration guide.

Remote management controller	Integrated Remote Management Controller (iRMC S6, 1024 MB attached memory incl. graphics controller) IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon / TPM 2.0 module; TCG compliant (option)

Slots

PCI-Express 5.0 x16	3 x Low profile
PCI-Express 4.0 x16	1 x Low profile
Slot Notes	Slot 4(internal): PCIe Gen4 x16 @CPU1 is dedicated for the modular RAID Controller. Slot 1: PCIe Gen5 x16 @CPU1 for low profile cards with up to 167mm length Slot 2: PCIe Gen5 x16 @CPU1 for low profile cards with up to 167mm length Slot 3: PCIe Gen5 x16 @CPU2 for low profile cards with up to 167mm length Slot 3 option: PCIe Gen5 x16 @CPU2 for full height cards with up to 167mm length (in this case, slot 2 is not available) Slot availability and population depending on selected base unit. Please see relevant configurator for details

Drive bays (Base unit specific)

Storage drive bays	up to 4 x 3.5-inch, 8 x 2.5-inch, 10 x 2.5-inch base unit
Accessible drive bays	1 x 5.25/9.5mm for DVD-RW/Blu-ray
Notes accessible drives	Not for 10x 2.5-inch base unit. All possible options described in relevant system configurator.
Optional accessible drives	2x 2.5-inch hot-plug SAS/SATA rear option

General system information

Number of fans	8
Fan configuration	redundant / hot-plug
Fan notes	n+1 redundant

Operating panel

Operating buttons	On/off switch Reset button NMI button ID button
Status LEDs	At system front side: Power (DC-On: green / AC-On: white) Global error (orange) Identification (blue) Hard disks access (green) CSS (orange) At system rear side: System status (green) Identification (blue) Global error (orange) LAN connection (green) LAN speed (green / yellow)

BIOS

BIOS features	UEFI compliant Secure boot support ROM based setup utility GPT support for boot drives larger than 2.2 TB Memory Redundancy support (Mirroring) IPMI support Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Linux versions IPv4/IPv6 remote PXE & iSCSI boot support Cryptographically Signed BIOS Firmware Update HTTP and HTTPS Boot PCIe Bifurcation configurable

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	Support of other Linux derivatives on demand
	Use of certified or supported operating systems and virtualization software is subject to proactive acceptance of the respective License Agreements/ EULAS/ Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.

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.
Manageability link	http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6

Dimensions / Weight

Rack (W x D x H)	482.2 mm (Bezel) / 435 mm (Body) x 807.45 x 42.7 mm
Mounting Depth Rack	836.95 mm
Height Unit Rack	1 U
19" rackmount	Yes
Weight	max. 18.2 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option

Environment

Operating temperature note	PRIMERGY servers are designed for the usage with operating temperatures of up to 35°C. There could be configurations that are not able to work within this normal operation class. Please use the Fujitsu WebArchitect (www.fujitsu.com/configurator/public) to get detailed information on the corresponding configurations.
Operating relative humidity	8 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	36 dB(A) (idle) / 44 dB(A) (operating) typical Values
Sound power (LWAd; 1B = 10dB)	4.1 B (idle) / 5.6 B (operating) typical Values
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature.

Electrical values

Power supply configuration	1 x hot-plug power supply or 2 x hot-plug power supply for redundancy
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	2,608 W
Apparent power (max. configuration)	2635 VA
Heat emission (max. configuration)	9388.8 kJ/h (8898.9 BTU/h)
Rated current max.	12A (100-127 V) / 15A (200-240 V)
Active power note	To estimate the power consumption of different configurations please use the Fujitsu WebArchitect: www.fujitsu.com/configurator/public
Power supply	500W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 500W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 900W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 900W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 1600W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz; 100V range: 1030W 1600W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 2200W hot-plug, 94% (Platinum efficiency), 200-240V, 50 / 60Hz 2400W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 1300W hot-plug, 94% (equivalent to Platinum efficiency) –48V DC 1600W hot plug, 94% (equivalent to Platinum efficiency) 380V DC
Power supply notes	Power Safeguard adapts system performance in case the power requirements exceeds supply limits. Platinum PSUs are only for APAC/Japan market.

Compliance

Product	PRIMERGY RX2530 M7
Model	PR200C

Compliance

Global	CB
	RoHS (Substance limitations in accordance with global RoHS regulations)
	WEEE (Waste electrical and electronical equipment)
Germany	GS
Europe	CE
USA/Canada	NRTLc/us
	FCC Class A
	ICES-003 / NMB-003 Class A
Japan	VCCI Class A + JIS 61000-3-2
Russia	EAC
South Korea	KC
China	CCC
Australia/New Zealand	RCM
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	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM

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	at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

More information

Fujitsu products, solutions & services

In addition to Fujitsu PRIMERGY RX2530 M7, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Built 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 offerings. This allows customers to select 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/products/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY RX2530 M7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/primergy

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/global/about/environment

Green Policy Innovation

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