

# Data Sheet

## FUJITSU Server PRIMERGY® RX2520 M5 Rack Server

Scalable rack server for essential business apps

FUJITSU Server PRIMERGY will give you exactly what you need to power any workload and changing business requirements. As business processes expand so does the need for applications. Each has its own resource footprint, so you need a way to optimize your computing to better serve your users. PRIMERGY systems will help you match your computing capabilities to your business priorities with our complete portfolio of expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers as well as hyper-converged multi-node servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, provide more agility in daily operations, and integrate seamlessly to let help you concentrate on core business functions.

FUJITSU Server PRIMERGY RX rack systems are versatile rack-optimized servers providing best-in-class performance and energy efficiency, and thus set the "standard" in each data center. PRIMERGY RX servers deliver more than 20 years of development and production know-how resulting in extremely low failure rates which are much better than the market average, and lead to continuous operations and outstanding hardware availability.

### PRIMERGY RX2520 M5

The Fujitsu PRIMERGY RX2520 M5 is an efficient and scalable platform for essential business applications. As a dual socket rack server it features the latest Intel® Xeon® Scalable Family processors with max. 18 cores fueled by up to 768 GB RAM. The PRIMERGY RX2520 delivers an especially well balanced price / performance ratio making it ideal for baseline datacenter workloads i.e. for collaboration platforms or storage-hungry applications. Its compact PRIMERGY 2U modular chassis provides storage demanding applications and services a powerful environment of up to twelve 3.5-inch or up to twenty-four 2.5-inch

storage drives. Furthermore, the RX2520 M5 is prepared for individual future demands by offering further various modular options and upgrade kits for LAN, RAID and storage. Power supply units with 96% efficiency and the enhanced iRMC S5 remote management will result in lower operational costs.



vmware

# Features & Benefits

Main Features	Benefits
<p><b>Well-balanced price / performance ratio</b></p> <ul style="list-style-type: none"> <li>■ A good choice of Intel® Xeon® Scalable Family processors with up to 18 cores combined with up to 768GB DDR4 RAM (12 DIMM slots) and up to 6x PCIe slots.</li> </ul>	<ul style="list-style-type: none"> <li>■ The variability of choice for the new generation "Cascade Lake" processors are ideal for price/performance sensitive environments. The system offers well-enough scalability for memory and additional devices to complement small-scale virtualization or collaboration platforms.</li> <li>■ The server is a scalable platform to best meet an increasing individual demand, optimized to suit serverized storage scenarios or high storage demand applications. Thanks to upgrade kits and its modular platform, you can grow your system over time with minimal impact and get the best out of your system over its entire lifecycle.</li> <li>■ This allows a cost-efficient onboard Ethernet connection for almost all tasks and a simplified and comprehensive power management that results with the high efficient power supplies in significant savings. Fujitsu ServerView Suite provides all the functions for fail-safe, flexible and automated 24x7 server operations and improves end-user productivity via intelligent and innovative system management solutions.</li> <li>■ Fujitsu offers comprehensive infrastructure management and server management solutions which is key to efficient data center operations. They provides all the functions for flexible and automated 24x7 IT operations and improves end-user productivity via intelligent and innovative system management solutions. ISM helps improve data center efficiency and overall IT Productivity with converged infrastructure management, paving the path to software-defined data center.</li> </ul>
<p><b>Flexible and scalable platform</b></p> <ul style="list-style-type: none"> <li>■ Huge numbers of storage drives in various base units with up to 12x 3.5-inch or 24x 2.5-inch storage drives are available. M.2 device support, the modular concept for the base unit as well as a choice for optional LAN controller, RAID controller and power supplies as well as built-in backup devices such as LTO drives are configurable for this server.</li> </ul>	
<p><b>Cost efficient operations</b></p> <ul style="list-style-type: none"> <li>■ The system comes with onboard LAN, a simplified power management with profiles for "minimum power" and "low-noise." Optional redundant, hot-plug PSU with 96% efficiency (80PLUS Titanium) save everyday. Our onboard iRMC S5 server management controller connects well to the Fujitsu ServerView® Suite offers tools for installation and deployment, permanent status monitoring and control.</li> </ul>	
<p><b>Revolutionize data center management</b></p> <ul style="list-style-type: none"> <li>■ Fujitsu ServerView Suite is a free-of-charge management software including tools for installation and deployment, permanent status monitoring and control as well as BIOS, firmware and selected software updates. 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>	

# Technical details

## PRIMERGY RX2520 M5

Base unit	PRIMERGY RX2520 M4 SFF	PRIMERGY RX2520 M4 SFF	PRIMERGY RX2520 M4 SFF	PRIMERGY RX2520 M4 LFF	PRIMERGY RX2520 M4 LFF
Housing types	Rack	Rack	Rack	Rack	Rack
Storage drive architecture	8x 2.5-inch SAS/SATA/PCIe	16x 2.5-inch SAS/SATA/PCIe	24x 2.5-inch SAS/SATA/PCIe	4x 3.5-inch SAS/SATA	12x 3.5-inch SAS/SATA
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	D3386-B				
Chipset	Intel® C624				
Processor quantity and type	1 - 2 x Intel® Xeon® Processor Scalable Family				
Mainboard type	D3386-B				
Processor quantity and type	1 - 2	1 - 2	1 - 2	1 - 2	1 - 2
Processor notes	configurable with up to max. 105W and 14 cores				
Memory slots	12 (6 DIMMs per CPU, 6 channels with 1 DIMM per channel)				
Memory slot type	DIMM (DDR4)				
Memory capacity (min. - max.)	8 GB - 768 GB				
Memory protection	Advanced ECC Memory Scrubbing SDDC				
Memory notes	Memory Mirroring Mode with identical modules in both channel pairs of a bank (4 or 6 modules per bank) per CPU. Rank Sparring Mode with minimum of 2 modules single ranked (1R) or dual ranked (2R) or 1 module quad ranked (4R) per CPU.				

## Interfaces

USB 2.0 ports	1 x USB 2.0 internal for backup devices
USB 3.0 ports	7 x USB 3.0 (2x front, 4x rear, 1x internal type A)
Graphics (15-pin)	1 x VGA rear
Serial 1 (9-pin)	1 x serial RS-232-C, optional
LAN / Ethernet	2 x Gbit/s Ethernet (RJ45 based on Intel® X722)
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S5 (10/100/1000 Mbit/s) Management LAN traffic can be switched to shared onboard Gbit LAN port

## Onboard or integrated Controller

RAID controller	All hardware storage controller options are described under Components
SATA Controller	Intel® C624, 1 x SATA channel for ODD
LAN Controller	2 x 1 Gbit/s onboard PXE-Boot via LAN from PXE server, iSCSI boot (also diskless)
Remote management controller	IPMI 2.0 compatible 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 x8	3 x Low profile
PCI-Express 3.0 x16	3 x Low profile
Slot Notes	Important: The number of PCIe slots depends on the number of CPUs: 3x PCIe x8 Gen 3 with CPU1 1x PCIe x16 Gen 3 with CPU1 2x PCIe x16 Gen 3 with CPU2

**Drive bays**

Storage drive bays	2.5-inch base units (max. 24 x 2.5) or 3.5-inch base units (max. 12 x 3.5)
Accessible drive bays	1 x 5.25/0.5-inch for ODD 1 x 5.25/1.6-inch for backup devices
Notes accessible drives	All possible options described in relevant system configurator.

**Drive bays (Base unit specific)**

Storage drive bays	12 x 2.5-inch hot-plug SAS/SATA	16 x 2.5-inch hot-plug SAS/SATA	24 x 2.5-inch hot-plug SAS/SATA	4 x 3.5-inch hot-plug SAS/SATA	12 x 3.5-inch hot-plug SAS/SATA
Storage drive bay configuration		SAS expander not required with PRAID EP5xxi	not expandable, incl. SAS expander	optionally expandable to 8x 3.5" with SAS expander	not expandable, incl. SAS expander
Accessible drive bays	1 x 5.25/1.6-inch for 1 x backup drive or 1 x ODD	1 x 5.25/1.6-inch for 1 x backup drive or 1 x ODD		1 x 5.25/1.6-inch for 1 x backup drive or 1 x ODD	
Optional accessible drives	1x optical drive, 1x backup drive	1x optical drive, 1x backup drive		1x optical disk drive	

**Fan Configuration**

Number of fans	4
Fan configuration	redundant, non hot-plug
Fan notes	expandable with up to 3 double-fan modules; depending on configuration

**Operating panel**

Operating buttons	On/off switch Reset button NMI button ID button
Status LEDs	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (orange / yellow) 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 SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support Cryptographically Signed BIOS Firmware Update HTTP and HTTPS Boot PCIe Bifurcation configurable
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**Operating Systems and Virtualization Software**

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	Support of other Linux® derivatives on demand

**Server Management and Infrastructure Management**

<b>Standard</b>	<ul style="list-style-type: none"> <li>Infrastructure Manager (ISM) Essential <ul style="list-style-type: none"> <li>Node Management</li> <li>Health status Monitoring and Control</li> <li>Capacity/Threshold Management</li> <li>Power Management</li> <li>Converged Management</li> <li>Auto Discovery</li> <li>Remote Management</li> <li>Update Management</li> <li>Logging and Auditing</li> </ul> </li> <li>ServerView Suite (Deploy) <ul style="list-style-type: none"> <li>ServerView Installation Manager</li> <li>ServerView Scripting Toolkit</li> </ul> </li> <li>ServerView Suite (Control) <ul style="list-style-type: none"> <li>ServerView Operations Manager (incl. PDA and ASR &amp; R)</li> <li>ServerView Agents and CIM provider</li> <li>ServerView Agentless Management</li> <li>ServerView System Monitor</li> <li>SVOM- Event Manager</li> <li>ServerView RAID Manager</li> <li>SVOM- Threshold Manager</li> <li>Power Monitor (monitoring the Power Consumption)</li> <li>Power Management (iRMC)</li> <li>Storage Management (server) with SVOM/SV-RAID</li> </ul> </li> <li>ServerView Suite (Maintain) <ul style="list-style-type: none"> <li>iRMC S5 (Remote Management)</li> <li>System Update Manager (BIOS, Firmware, Windows® Drives and SV Agents)</li> <li>Performance management (SVOM)</li> <li>Asset Management</li> <li>Primecollect</li> <li>Customer Self Service</li> <li>Online Diagnostics</li> </ul> </li> <li>ServerView Suite (Integrate) <ul style="list-style-type: none"> <li>ServerView Integration packs for MS System Center, VMware® vCenter®, VMware vRealize®, Nagios®, and HP® SIM</li> </ul> </li> </ul>
<b>Option</b>	<ul style="list-style-type: none"> <li>ServerView Suite (Maintain) <ul style="list-style-type: none"> <li>ServerView eLCM</li> <li>iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media</li> </ul> </li> <li>Infrastructure Manager (ISM) <ul style="list-style-type: none"> <li>Automate device configuration</li> <li>Mass OS installation</li> <li>Node Management</li> <li>Health status Monitoring and Control</li> <li>Capacity/Threshold Management</li> <li>Power Management</li> <li>Converged Management</li> <li>Auto Discovery</li> <li>Virtual-I/O Management</li> <li>Network topology Management</li> <li>Remote Management</li> <li>Update Management</li> <li>Logging and Auditing</li> <li>Integrate in to <ul style="list-style-type: none"> <li>Enterprise Management</li> <li>Vendor specific Management</li> <li>Monitor 3rd party platforms</li> </ul> </li> </ul> </li> </ul>
<b>Server Management notes</b>	Regarding dependencies for ServerView Suite software products see dedicated product data sheets.
<b>Dimensions / Weight</b>	
<b>Rack (W x D x H)</b>	18.99 ins. (Bezel) / 17.52 ins. (Body) x 30.31 x 3.41 ins. mm
<b>Mounting Depth Rack</b>	29.13 ins.
<b>Height Unit Rack</b>	2 U
<b>19" rackmount</b>	Yes

**Dimensions / Weight**

Weight	up to 55.12 lbs.
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option

**Environment**

Operating ambient temperature	41 - 113 °F
Operating temperature note	Cool-safe® Advanced Thermal Design (above 95° F or below 50° F) 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	<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>
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	Minimum noise : 34 dB(A) (idle) / 34 dB(A) (operating) Typical noise : 36 dB(A) (idle) / 36 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	Minimum noise : 5.76 B (idle) / 5.76 B (operating) Typical noise : 6.1 B (idle) / 6.1 B (operating)
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature.

**Electrical values**

Power supply configuration	1x non hot-plug power supply or 2x hot-plug power supply for redundancy
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	643 W
Apparent power (max. configuration)	600 VA
Heat emission (max. configuration)	2314.8 kJ/h (2194.0 BTU/h)
Rated current max.	5.5 A (100 V) / 2.5 A (240 V)
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect: <a href="http://configurator.ts.fujitsu.com/public/">http://configurator.ts.fujitsu.com/public/</a>
Power supply	450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 800W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 800W hot-plug, 92% (equivalent to Gold efficiency) –48V DC 800W hot-plug, 96% (Titanium efficiency), 200-240V, 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

**Compliance**

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 FCC Class A ICES-003 / NMB-003 Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
Russia	EAC
South Korea	KC
China	CCC (planned)
Australia/New Zealand	RCM
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

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## Warranty

Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	<a href="https://www.fujitsu.com/us/support">https://www.fujitsu.com/us/support</a>

## 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 EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life
Service Weblink	<a href="https://www.fujitsu.com/us/products/product-support-services/index.html">https://www.fujitsu.com/us/products/product-support-services/index.html</a>

# More information

## About Fujitsu Americas

Fujitsu America, Inc. is the parent and/or management company of a group of Fujitsu-owned companies operating in North, Central and South America and Caribbean, dedicated to delivering the full range of Fujitsu products, solutions and services in ICT to our customers in the Western Hemisphere. These companies are collectively referred to as Fujitsu Americas. Fujitsu enables clients to meet their business objectives through integrated offerings and solutions, including consulting, systems integration, managed services, outsourcing and cloud services for infrastructure, platforms and applications; data center and field services; and server, storage, software and mobile/tablet technologies. For more information, please visit: [www.fujitsu.com/us](http://www.fujitsu.com/us) and <http://twitter.com/fujitsuamerica>.

### Fujitsu products, solutions & services

In addition to FUJITSU Server PRIMERGY RX2520 M5, 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/](http://www.fujitsu.com/global/products/computing/)

#### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

### More information

Learn more about FUJITSU Server PRIMERGY RX2520 M5, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/primergy](http://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>



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