

Data Sheet

Fujitsu PRIMERGY RX2520 M4 Server

Scalable rack server for essential business apps

PRIMERGY RX2520 M4

The Fujitsu PRIMERGY RX2520 M4 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 up to 384 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 M4 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.



Features & Benefits

Main Features	Benefits
<p>Well-balanced price / performance ratio</p> <ul style="list-style-type: none"> ■ Intel® Xeon® Processor Scalable Family CPUs with up to 14 cores (max. 105W). ■ Up to 384GB DDR4 RAM (12 DIMM slots). ■ up to 6x PCIe slots <p>Flexible and scalable platform</p> <ul style="list-style-type: none"> ■ Huge number of storage drives of up to 12x 3.5-inch or 24x 2.5-inch storage drives. ■ M.2 device support for hypervisor installations or mirroring. ■ Modular concept for the base unit as well as a choice for optional LAN controller, RAID controller and power supplies. ■ Upgrade kits for hard disk drives, backup devices such as LTO drives. <p>Cost efficient operations</p> <ul style="list-style-type: none"> ■ Onboard LAN. ■ iRMC S5 comes with new interactive web UI and conforms to Redfish providing unified API support for heterogeneous environment. ■ Optional redundant, hot-plug PSU with 96% efficiency (80PLUS Titanium). ■ FUJITSU ServerView Suite offers tools for installation and deployment, permanent status monitoring and control. A wide range of integration packs allow a seamless and easy integration in widely used enterprise management systems. 	<ul style="list-style-type: none"> ■ Optimal choice of processors for price/performance sensitive environments. ■ Good-enough scalability for memory and additional devices for small-scale virtualization or collaboration platforms. <p>■ Scalable platform to best meet increasing individual demand optimized to suit serverized storage scenarios.</p> <ul style="list-style-type: none"> ■ High storage capacity for storage demanding applications and scale-out scenarios. ■ Individual and cost-saving starting configuration: Grow over time within the same system. ■ Additional budget saver: Upgrade kits save when companies grow. <ul style="list-style-type: none"> ■ Cost-efficient onboard Ethernet connection for almost all tasks. ■ Optimized for both: data centers and SMEs can now rely on latest generation iRMC S5 increasing security and server admin productivity. ■ 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.

Technical details

PRIMERGY RX2520 M4

Mainboard

Mainboard type	D3386
Chipset	Intel® C624
Processor quantity and type	1 - 2 x Intel® Xeon® Processor Scalable Family
Graphics add on cards	Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3 x miniDP
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 - 384 GB
Memory protection	Advanced ECC Memory Scrubbing SDDC
Memory notes	max. 6 memory modules/CPU with single or dual-rank RDIMM. Performance Mode with identical modules in all three channels (2 modules per bank).

Interfaces

USB 2.x ports	1 x USB 2.0 internal for backup devices
USB 3.x 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.

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
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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 Hyper-V Server 2016 Windows Server 2016 Datacenter Windows Server 2016 Standard Windows Server 2016 Essentials Windows Storage Server 2016 Standard Windows Server Datacenter, version 1709 Hyper-V Server 2012 R2 Windows Server 2012 R2 Datacenter Windows Server 2012 R2 Standard Windows Server 2012 R2 Essentials Windows Storage Server 2012 R2 Standard VMware vSphere™ 6.7 VMware vSphere™ 6.5 VMware vSphere™ 6.0 SUSE® Linux Enterprise Server 12 Red Hat® Enterprise Linux 8 Red Hat® Enterprise Linux 7 Red Hat® Enterprise Linux 6 Univention Corporate Server 4
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

Infrastructure and Server Management

DC Infrastructure Management	<ul style="list-style-type: none"> Infrastructure Manager (ISM) Essential Edition <ul style="list-style-type: none"> Node Management Health status Monitoring and Control Capacity/Threshold Management Power Management Converged Management Auto Discovery Remote Management Update Management Logging and Auditing ServerView Suite (Deploy) <ul style="list-style-type: none"> ServerView Installation Manager ServerView Scripting Toolkit ServerView Suite (Control) <ul style="list-style-type: none"> ServerView Operations Manager (incl. PDA and ASR & R) ServerView Agents and CIM provider ServerView Agentless Management ServerView System Monitor SVOM- Event Manager ServerView RAID Manager SVOM- Threshold Manager Power Monitor (monitoring the Power Consumption) Power Management (iRMC) Storage Management (server) with SVOM/SV-RAID ServerView Suite (Maintain) <ul style="list-style-type: none"> iRMC S5 (Remote Management) System Update Manager (BIOS, Firmware, Windows Drives and SV Agents) Performance management (SVOM) Asset Management Primecollect Customer Self Service Online Diagnostics ServerView Suite (Integrate) <ul style="list-style-type: none"> ServerView Integration packs for MS System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM
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Server Management	<ul style="list-style-type: none"> ServerView Suite (Maintain) <ul style="list-style-type: none"> ServerView eLCM iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media Infrastructure Manager (ISM) <ul style="list-style-type: none"> Automate device configuration Mass OS installation Node Management Health status Monitoring and Control Capacity/Threshold Management Power Management Converged Management Auto Discovery Virtual-IO Management Network topology Management Remote Management Update Management Logging and Auditing Integrate in to <ul style="list-style-type: none"> Enterprise Management Vendor specific Management Monitor 3rd party platforms
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Management notes	Regarding dependencies for ServerView Suite software products see dedicated product data sheets.
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Dimensions / Weight

Rack (W x D x H)	482.4 mm (Bezel) / 445mm (Body) x 770 x 86.6 mm
Mounting Depth Rack	740 mm
Height Unit Rack	2 U
19" rackmount	Yes

Dimensions / Weight

Weight	up to 25 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)
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=e4813edf-4a27-461a-8184-983092c12dbe
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 Fujitsu Product Configurator: www.fujitsu.com/configurator/public
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 electronical 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	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

Backup Drives	LTO7HH Ultrium, 2,500 GB, 300 MB/s, half height, SAS 6Gb/s RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0
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	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.4 DWPD SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.4 DWPD SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD HDD SATA, 6 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical HDD SAS, 12 Gb/s, 900 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise HDD SAS, 12 Gb/s, 900 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise 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, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 3.5-inch, enterprise HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise 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
RAID Controller	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 PRAID EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516 Fujitsu PRAID EP540i 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, 4 GB, Optional FBU based on LSI SAS3516 Fujitsu PRAID EP540e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516
Fibre Channel controller	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Cavium QLE2740 MMF LC-style Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPe32000-M6-F MMF LC-style Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-F MMF LC-style Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2690 LC-style Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2692 LC-style Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe31000-M6-F MMF LC-style Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe31002-M6-F MMF LC-style

Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Intel®)
Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Mellanox)
Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)
Ethernet Ctrl. 4 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
Ethernet Ctrl. 4 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® Quadro® P400 , 2 GB, N/A, PCIe x16, 3 x miniDP
Rack infrastructure	Rackmount kit full extraction (820mm), tool less mounting, length variable 559-914mm Cable Management for 19-inch DataCenter / PRIMECENTER Racks Cable Arm 2U for PRIMECENTER- and 3rd-party racks

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Warranty

Manufacturer warranty period	3 years
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	at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY RX2520 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.

Computing Products

www.fujitsu.com/global/products/computing/

Software

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More information

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www.fujitsu.com/global/products/computing/servers/primergy/rack/rx2520m4/index.html

Fujitsu green policy innovation

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