

# Data Sheet

## Fujitsu PRIMERGY RX2540 M4 Server

The data center standard without compromise

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### PRIMERGY RX2540 M4

The FUJITSU Server PRIMERGY RX2540 M4 sets higher standards for usability, scalability and cost-efficiency. It is a 2U dual-socket rack server ideal for running enterprise applications, collaboration and messaging workloads as well as traditional databases. Plus, it substantially simplifies carrying out infrastructure-related tasks like server virtualization and consolidation. As one of the key innovations, versatile performance is guaranteed by a new generation of processors. The PRIMERGY RX2540 M4 can be equipped with two of the latest Intel® Xeon® Processor Scalable Family CPUs with up to 28 cores each. Along with DDR4 memory technology with up to 3TB it boosts application performance to be able to cope with the increasing data growth and shortens time to business results. The modular design of the server offers excellent expandability with up to 28 disk drives, high storage density, up to 8 PCIe Gen 3 I/O expansion slots. A variety of onboard DynamicLoM options, plus its dual-port embedded LAN meet future requirements, cost-optimized. The PRIMERGY RX2540 M4 comes with two redundant hot-plug power supply units, offering up to 96% energy efficiency. The Cool-safe® Advanced Thermal Design allows for operation in ambient temperatures of up to 45 °C/104 °F. Both these features in line help to reduce operational expenses.



# Features & Benefits

Main Features	Benefits
<p>Versatile Performance for any computing need</p> <ul style="list-style-type: none"> <li>■ Intel® Xeon® Processor Scalable Family CPUs with up to 28 cores relying on Intel® UltraPath Interconnect for an increased data rate between the CPUs.</li> <li>■ Up to 3,072 GB DDR4 memory with 2,666 MT/s (24 DIMM slots).</li> <li>■ 8x PCIe Gen3 slots.</li> </ul>	<ul style="list-style-type: none"> <li>■ Ready for the future and data growth scenarios with the performance of two processors – marking the standard of tomorrow with an increase in computing power.</li> <li>■ DDR4 memories with higher bandwidth and lower consumption are the enabler; optimized for virtualization and clouds, data centers and high performance computing.</li> <li>■ Flexible expandability and diverse options for storage devices permits for the integration of existing and new SSD and HDD as needed. Less today, more in future – or vice versa.</li> </ul>
<p>Enhanced Features for enhanced Computing</p> <ul style="list-style-type: none"> <li>■ Onboard LAN via OCP for basic LAN, DynamicLoM for extended requirements.</li> <li>■ Mix&amp;Match storage drive bays: Ideal scalability of either up to 12x 3.5-inch or up to 24x 2.5-inch HDD/SSD/PCIe SSD+ an additional rear option of 4x 2.5-inch drives.</li> <li>■ 2x internal M.2 devices support for hypervisor installations or mirroring.</li> <li>■ Power supply units with 96% energy efficiency.</li> <li>■ Fujitsu's Cool-safe® Advanced Thermal Design for higher ambient temperatures in the data center.</li> <li>■ Optional liquid cooled base unit (on special request).</li> <li>■ Up to 2x GPGPU support within one system.</li> </ul>	
<p>Foundation for Trust and Security</p> <ul style="list-style-type: none"> <li>■ Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control.</li> <li>■ BIOS, firmware and selected software are updated free of charge.</li> <li>■ TPM2.0 modules and latest operating system support.</li> </ul>	
<p>Simplified management</p> <ul style="list-style-type: none"> <li>■ iRMC S5 comes with new interactive web UI and conforms to Redfish providing unified API support for heterogeneous environment.</li> <li>■ RAID Controller embedded onboard.</li> </ul>	
	<ul style="list-style-type: none"> <li>■ The right Ethernet connection for all: Basic via onboard LAN, extended with DynamicLoM guarantees the highest flexibility to integrate the server into existing infrastructures – now and in future without overhauling the existing infrastructure.</li> <li>■ Flexible expandability and diverse options for storage devices permits for the integration of existing and new SSD and HDD as needed. Less today, more in future – or vice versa.</li> <li>■ Not only "greener", also less expensive over time: Highly efficient hot-plug power supplies save energy costs and make it easy to maintain the running system and ensure industry-leading uptime.</li> <li>■ Higher ambient temperatures lead to lower costs for cooling the data center.</li> <li>■ Less noise, latest technology to cool processors and memory directly where the heat is being generated.</li> <li>■ Optimal for VDI, CAD or future technologies such as Artificial Intelligence of Virtual Reality applications.</li> </ul>
	<ul style="list-style-type: none"> <li>■ Lifecycle investment protection.</li> <li>■ The comprehensive tools of the Fujitsu ServerView Suite eases the administrators life.</li> <li>■ Hardware and Software driven security features are very important in a fast-paced world, especially considering cybercrime.</li> </ul>
	<ul style="list-style-type: none"> <li>■ Optimized for both: data centers and SMEs can now rely on latest generation iRMC S5 increasing security and server admin productivity.</li> <li>■ RAID support for the most common configurations is conveniently embedded on the system board and does not require a dedicated controller.</li> </ul>

# Technical details

## PRIMERGY RX2540 M4

### Mainboard

Mainboard type	D3384
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

Memory slots	24 (12 DIMMs per CPU, 6 channels with 2 slots per channel)
Memory slot type	DIMM (DDR4)
Memory capacity (min. - max.)	8 GB - 3072 GB
Memory protection	Advanced ECC Memory Scrubbing SDDC Rank sparing memory support Memory Mirroring support

**Memory notes** Memory Mirroring with identical modules in both channel pairs of a bank (6 modules per bank), Rank sparing or Performance Mode with identical modules in all six channels (6 modules per bank).

### Interfaces

USB 3.x ports	5 x USB 3.0 (2x front, 2x rear, 1x internal) - for base units with max. drives count: 1x USB 2.0 front only
Graphics (15-pin)	2 x VGA (thereof 1x front optional)
Serial 1 (9-pin)	1 x serial RS-232-C optional, usable for iRMC or system or shared
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 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 SystemArchitect for configuration options and restrictions.
SATA Controller	Intel® C624, 1 x SATA channel for ODD
LAN Controller	Intel® C624 2 x 1 Gbit/s onboard Optional DynamicLoM OCP adaptors: 4 x 1 Gbit/s Ethernet (RJ45) 2 x 10 Gbit/s Ethernet (RJ45) 2 x 10 Gbit/s SFP+ 4 x 10 Gbit/s SFP+ All supported features are described in relevant system configurator.
Remote management controller	Integrated Remote Management Controller (iRMC S5, 512 MB attached memory incl. graphics controller) IPMI 2.0 compatible
GPU / coprocessor	GFX/GPU support for dedicated base units. Please see relevant SystemArchitect for details and restrictions.
Onboard controller notes	Onboard 8x S-ATA 6Gbit/s RAID Controller (RAID 0,1) for up to 8x S-ATA drives available.
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 (2nd processor required for slot 4)
PCI-Express 3.0 x16	3 x Low profile (2nd processor required for slot 5 and 6)
Slot Notes	One PCIe Gen3 x8 slot may be occupied with a Modular RAID controller if configured. Important: 3 PCIe slots are supported with the first processor. 6 PCIe slots are supported with two processors. PCIe riser card options can expand number of slots by two (max. 8 in total) and support max. 4 full height slots. Possible slot length described in relevant system configurator.

### Drive bays

Storage drive bays	3.5-inch or 2.5-inch hot-plug SAS/SATA
Accessible drive bays	1 x 5.25/0.4-inch for CD-RW/DVD

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**Drive bays**

Notes accessible drives	All possible options described in relevant system configurator.
Optional hard disk bays	4x 2.5-inch hot-plug SAS/SATA rear option

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**General system information**

Number of fans	6
Fan configuration	redundant / hot-plug
Fan notes	3x2 redundant

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**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)

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**BIOS**

BIOS features	UEFI compliant Legacy BIOS compatibility customer configuration option Secure boot support ROM based setup utility GPT support for boot drives larger than 2.2 TB Memory Redundancy support (Mirroring, Sparing) IPMI support 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 IPv4/IPv6 remote PXE & 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
	SUSE® Linux Enterprise Server 11
	Red Hat® Enterprise Linux 8
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
	Oracle® Linux 7
	Oracle® Linux 6
	Oracle® VM 3
Univention Corporate Server 4	
Operating system release link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfb3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfb3230473</a>
Operating system notes	Support of other Linux derivatives on demand

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**Infrastructure and Server Management**


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DC Infrastructure Management	<ul style="list-style-type: none"> <li>Infrastructure Manager (ISM) Essential Edition</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>Remote Management</li> <li>Update Management</li> <li>Logging and Auditing</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>
Server Management	<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>ServerView Suite (Dynamize)               <ul style="list-style-type: none"> <li>ServerView Virtual IO Manager (SVIOM)</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-IO 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>

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) / 445 mm (Body) x 770 x 86.6 mm
Mounting Depth Rack	740 mm
Height Unit Rack	2 U

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**Dimensions / Weight**

19" rackmount	Yes
Mounting Cable depth rack	200 mm (1,000 mm Rack recommended)
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 ( <a href="http://www.fujitsu.com/configurator/public">www.fujitsu.com/configurator/public</a> ) to get detailed information on the corresponding configurations. Ambient temperature limitation may differ for liquid cooled models. Please refer to the SystemArchitect for detailed information.
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)	Typical noise : 43 dB(A) (idle) / 43 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	Typical noise : 6.1 B (idle) / 6.0 B (operating)
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature. Typical hardware configuration which is the base for measurement according to ISO 7779: 2x PSU 450W. 2x CPU Xeon 85W, 4x RAM 16GB, 2x HDD 500GB SATA, 6x LAN 1 Gbit/s

**Electrical values**

Power supply configuration	1 x hot-plug power supply or 2x hot-plug power supply for redundancy
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	715 W
Apparent power (max. configuration)	753 VA
Heat emission (max. configuration)	2574.0 kJ/h (2439.7 BTU/h)
Rated current max.	7.68 A (100 V) / 2.98 A (240 V)
Active power note	To estimate the power consumption of different configurations use the Fujitsu Product Configurator: <a href="http://www.fujitsu.com/configurator/public">www.fujitsu.com/configurator/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, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 1200W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz; 110V range: 1000W, less than 110V: 900W 800W hot-plug, 92% (equivalent to Gold efficiency) –48V DC 1300W 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. !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
Australia/New Zealand	RCM
Taiwan	BSMI
India	BIS R41004006

**Compliance**

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

**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  
SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD  
SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD  
SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD  
SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED  
SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD  
PCIe-SSD SFF, 750 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 30 DWPD  
PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD  
PCIe-SSD SFF, 2 TB, Read-Intensive, 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  
PCIe-SSD SFF, 1 TB, Read-Intensive, 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 SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical  
HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical  
HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, 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, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical  
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  
HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical  
HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical



	Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
<b>RAID Controller</b>	<p>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</p> <p>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</p> <p>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</p> <p>Fujitsu PRAID EP540e FH, 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</p> <p>Fujitsu 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</p> <p>Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108</p> <p>Fujitsu PRAID EP420i for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108</p> <p>Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108</p> <p>Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50, No FBU support</p>
<b>Fibre Channel controller</b>	<p>Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Cavium QLE2740 MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPe32000-M6-F MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-F MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2690 LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2692 LC-style</p> <p>Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe31000-M6-F MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe31002-M6-F MMF LC-style</p>
	<p>Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 ( Intel® )</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 ( Intel® )</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 ( Mellanox )</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Intel® )</p> <p>Ethernet Ctrl. 4 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 ( Intel® )</p> <p>Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Intel® )</p> <p>Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 ( Intel® )</p>
<b>Communication, Network</b>	<p>InfiniBand HCA 1 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed ( Mellanox )</p> <p>InfiniBand HCA 1 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed ( Mellanox )</p>
<b>Communication, Network</b>	<p>InfiniBand HCA 2 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed ( Mellanox )</p> <p>InfiniBand HCA 2 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed ( Mellanox )</p> <p>Interface modul for Dynamic LoM 2 x 10 Gbit/s RJ45 ( Intel® )</p> <p>Interface modul for Dynamic LoM 2 x 10 Gbit/s SFP+ ( Intel® )</p> <p>Interface modul for Dynamic LoM 4 x 10 Gbit/s SFP+ ( Intel® )</p> <p>Interface modul for Dynamic LoM 4 x 1 Gbit/s RJ45 ( Intel® )</p> <p>Omni Path 1 x PCIe 3.0 x16 ( Intel® )</p>
<b>Graphics</b>	1x Intel® Xeon Phi™ 5110P, N/A
<b>Graphics add on cards</b>	NVIDIA® Quadro® P400 , 2 GB, N/A, PCIe x16, 3 x miniDP
<b>Rack infrastructure</b>	<p>Rackmount kit full extraction (820mm), tool less mounting, length variable 559-914mm</p> <p>Cable Management for 19-inch DataCenter / PRIMECENTER Racks</p> <p>Cable Arm 2U for PRIMECENTER- and 3rd-party racks</p>

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**Warranty**

Manufacturer warranty period	3 years
Warranty type	Onsite warranty
<b>Product Support - the perfect extension</b>	
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 <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a>
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 RX2540 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/](http://www.fujitsu.com/global/products/computing/)

### Software

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

## More information

Learn more about Fujitsu PRIMERGY RX2540 M4, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://www.fujitsu.com/fts/products/computing/servers/primergy/rack/rx2540m4/>

## Fujitsu green policy innovation

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