

# Data Sheet Fujitsu PRIMERGY TX2540 M1 Server

Well-balanced price- performance

#### PRIMERGY TX2540 M1

The FUJITSU PRIMERGY TX2540 M1 is the perfect Tower Server for small and medium-sized companies (SMB) as well as branches. It supports up to two processors of the Intel Xeon E5-2400 v2 family, thus combining affordable performance with balanced expandability. Its maximum 24 hard disks and 192 GB of RAM is ideal as a starting-point for server virtualization or as a database and communication server. Furthermore, optional redundancy secures stable and reliable operation. Thanks to its minimum operational noise, the server is ideal for offices, for example under the desk. Furthermore, the comprehensive Fujitsu ServerView® Suite provides support for administrators during server installation, deployment and administration.













### Features & Benefits

Main Features	Benefits
Cost effective performance	
<ul> <li>Intel® Xeon® E5-2400 v2 product family with up to 10 cores</li> <li>Up to 192 GB memory (12 DIMM slots) and up to 6 PCle slots,</li> </ul>	Provides a well-balanced price / performance ratio for SMBs and branch offices
768GB RAM on special release	<ul> <li>Optimized for server-based computing, virtualization, databases and ERP &amp; CRM software, collaboration &amp; messaging solutions</li> </ul>
Solid expandability and redundancy	
Expanded scalability of up to 24 2.5-inch or 8 3.5-inch storage drives, 5 PCle Gen2/3 and 1 PCl slot	<ul> <li>High levels of expandability and the performance of two processors</li> <li>perfect for virtualization</li> </ul>
Optional redundant power supply units and fans	■ Tailor the level of redundancy to your needs and your budget
Optional rack mount kit	When the company grows your PRIMERGY TX2540 M1 can easily be converted into a rack server
Silent, compact, and easy to deploy	
Low noise emissions through optimized air flow and Fujitsu's Coolsafe® technology	<ul><li>Silent operation for use in offices or showrooms</li><li>So small and silent that it might even be placed under desks</li></ul>
<ul> <li>Compact 4U chassis</li> <li>Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control</li> </ul>	The comprehensive tools of the Fujitsu ServerView Suite eases the administrators life

### Technical details

PRIMERGY TX2540 M1					
Base unit	PRIMERGY TX2540 M1 LFF	PRIMERGY TX2540 M1 LFF	PRIMERGY TX2540 M1 SFF	PRIMERGY TX2540 M1 LFF	PRIMERGY TX2540 M1 SFF
Housing types	Tower	Tower	Tower	Rack	Rack
Storage drive architecture	3.5-inch	3.5-inch	2.5-inch	3.5-inch	2.5-inch
Power supply	Standard	Hot-plug	Hot-plug	Hot-plug	Hot-plug
Mainboard					
Mainboard type	D3099-B				
Chipset	Intel® C602				
Processor quantity and type	1 - 2 x Intel® Xeon® բ	processor E5-2400 v2 pr	oduct family		
Graphics add on cards	Professional 2D: NVI	Professional 2D: NVIDIA® NVS™ 315, PCIe x16, 2 x DVI/VGA			
	Intel® Xeon® process	or E5-2470v2 (10C/20T,	2.40 GHz, 8.0 GT/s)		
	Intel® Xeon® process	or E5-2450v2 (8C/16T, 2	.50 GHz, 8.0 GT/s)		
	Intel® Xeon® process	or E5-2440v2 (8 Cores /	16 Threads, 1.90 GHz, 7	7.2 GT/s)	
	Intel® Xeon® process	or E5-2430v2 (6C/12T, 2	.50 GHz, 7.2 GT/s)		
	Intel® Xeon® process	or E5-2420v2 (6C/12T, 2	.20 GHz, 7.2 GT/s)		
	Intel® Xeon® process	or E5-2407v2 (4C/4T, 2.	40 GHz, 6.4 GT/s)		
	or E5-2403v2 (4C/4T, 1.8	80 GHz, 6.4 GT/s)			
	Intel® Xeon® processor E5-2430Lv2 (6C/12T, 2.40 GHz, 7.2 GT/s)				
Memory slots	12 (6 DIMMs per CPU	, 3 channels with 2 slot	s per channel)		
Memory slot type	DIMM (DDR3)				
Memory capacity (min max.)	4 GB - 192 GB				
Memory protection	Advanced ECC SDDC				
Memory notes	On project release max 768 GB possible Performance Mode requires identical modules in all channels of each bank per CPU.				
4 GB (1 4 GB) DDR3 LV, registered, ECC	C, 1,600 MT/s, PC3-12800,	DIMM, single rank			
8 GB (1 module(s) 8 GB) DDR3 LV, regi	stered, ECC, 1,600 MT/s, F	PC3-12800, DIMM, single	e rank		
16 GB (1 16 GB) DDR3 LV, registered, E	ECC, 1,600 MT/s, PC3-1280	00, DIMM, dual rank			
Interfaces					
USB 2.0 ports	9 x USB 2.0 (2 x front	: UHCI USB, 4 x rear UHC	I USB, 2 x internal for b	ackup, 1x UFM internal l	poot device)
Graphics (15-pin)	1 x VGA	·	•	1 *	•
Serial 1 (9-pin)		pin), usable for iRMC S	4 or system or common	use	
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet (I	•	,		
Management LAN (RJ45)	Management LAN traffic can be switched to shared onboard Gbit LAN port 1 x dedicated management LAN port for iRMC S4 (10/100/1000 Mbit/s)				
Onboard or integrated Controller					
RAID controller	All hardware storage	controller options are d	escribed under Compon	ents	
SATA Controller	<del>-</del>	· · · · · · · · · · · · · · · · · · ·	d disks, 2 x for accessibl		
SATA controller type notes	· · · · · · · · · · · · · · · · · · ·	oller supports RAID level			
LAN Controller	2 x 10/100/1000 Mbi 2 x Intel i210	t/s Ethernet			
Remote management controller	IPMI 2.0 compatible Integrated Remote M	lanagement Controller (	iRMC S4, 256 MB attach	ed memory incl. graphi	cs controller)
Trusted Platform Module (TPM)	Infineon / TPM 1.2 m	odule; TCG compliant (o	ption)	<u>-</u> .	
Slots					

Slots			
PCI-Express 3.0 x16	2 x Full height first slot: 280 mm lengt	h, second slot: 170 mm length (only av	vailable with second (PH)
PCI-Express 2.0 x4 (mech. x8)	1 x Full height 230 mm length; preferr		anable with second cr of
PCI-slots		and 3.3V/5V cards; no support of 5V on	ly cards)
Slot Notes	in SAS configuration 1x PCI-Express occ	• • • • • • • • • • • • • • • • • • • •	ny carasi
	iii 3/13 comiguration 1x 1 cr Express occ	eapled by iniddual it to controller	
Drive bays			
Storage drive bays	3.5-inch or 2.5-inch hot-plug SAS/SATA		
Accessible drive bays	3 x 5.25/1.6-inch		
Notes accessible drives	All possible options described in releva	ant system configurator.	
Storage drive bays	Max. 8 x 3.5-inch	Max. 24 x 2.5-inch	Max. 24 x 2.5-inch
Accessible drive bays	$3 \times 5.25/1.6$ -inch for $1 \times backup$ drive $+ 1 \times ODD$	$3 \times 5.25/1.6$ -inch for $1 \times backup$ drive $+ 1 \times ODD$	3 x 5.25/1.6-inch for 1 x backup drive + 1 x ODD
Fan Configuration			
Number of fans	4		
Fan configuration	3 fans as standard plus 1 additional fan for redundancy operation possible (option)		
Fan notes	redundant fan configuration depends on base unit and is only available in combination with redundant PSU		
Operating panel			
Operating buttons	On/off switch NMI button Reset button		
Service display	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) CPU status Fan status Hard disk error Temperature CSS (yellow) Memory status PSU status (green/ amber) At system rear side: System status (orange / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)		
Service display	Optional: ServerView Local Service Display (LSD)		
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 ver Local and remote update via ServerVie SMBIOS V2.4 Remote PXE boot support		

Operating Systems and Virtualization So	oftware
Certified or supported operating	Hyper-V Server 2016
systems and virtualization software	Windows Server 2016 Datacenter
	Windows Server 2016 Standard
	Windows Server 2016 Essentials
	Windows Storage Server 2016 Standard
	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
	Hyper-V Server 2012
	Windows Server 2012 Datacenter
	Windows Server 2012 Standard
	Windows Server 2012 Essentials
	Windows Storage Server 2012 Standard
	Hyper-V™ Server 2008 R2
	Windows Server 2008 R2 Datacenter
	Windows Server 2008 R2 Enterprise
	Windows Server 2008 R2 Standard
	Windows Server 2008 Datacenter
	Windows Server 2008 Enterprise
	Windows Server 2008 Standard
	Windows Web Server 2008
	VMware vSphere™ 6.5
	VMware vSphere™ 6.0
	VMware vSphere™ 5.5
	VMware vSphere™ 5.1 Embedded
	VMware vSphere™ 5.1
	SUSE® Linux Enterprise Server 12
	SUSE® Linux Enterprise Server 11
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
	Red Hat® Enterprise Linux 5
	Red Hat® Enterprise Linux 5 with XEN
	Citrix® XenServer®
	Univention Corporate Server 4
	Univention Corporate Server 3.x
Operating system release link	
Operating system notes	Support of other Linux derivatives on demand
Server Management	
Dimensions / Weight	
Floor-stand (W x D x H)	177 x 651 x 456 mm
Rack (W x D x H)	483 x 611 x 177 mm
Dimension notes	Floorstand Width 177 mm without tilt protection (420 mm with tilt protection); depth measured includes handles on
Hoight Unit Dack	redundant PSU. Rack depth includes handles of redundant PSU, excludes rack handles / front 4 U
Height Unit Rack	
Weight Weight notes	16 kg - 32 kg
	Actual weight may vary depending on configuration  Rack integration kit as option
Rack integration kit	rack integration kit as υμποπ —
Environment	

Electrical values	
Power supply configuration	1 x standard power supply or 1 x hot-plug power supply or 2 x hot-plug power supply for redundancy depending on model
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	432 W
Apparent power (max. configuration)	435 VA
Heat emission (max. configuration)	1555.2 kJ/h (1474.0 BTU/h)
Rated current max.	7.6 A (100 V) / 3.7 A (240 V)
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect: http://configurator.ts.fujitsu.com/public/
Power supply	800W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz 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
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	CS CS
Еигоре	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
China	ССС
Australia/New Zealand	C-Tick
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 usmay be required to take adequate measures.

## Components

	LTO5HH Ultrium, 1,500 GB, 140 MB/s, half height, SAS 6Gb/s
Backup Drives	LTO6HH Ultrium, 2,500 GB, 160 MB/s, half height, SAS 6Gb/s
	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	DVD-ROM, (16xDVD; 48xCD), half height, SATA I
	DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I
	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
Hard disk drives	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical

	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
lard disk drives	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical
lard disk drives	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 4 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
ard disk drives	HDD SAS, 12 Gb/s, 2 TB , 7,200 rpm, 512e, 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 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
ard disk drives	HDD SAS, 6 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
ard disk drives	HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
olid-State-Drive	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
ond State Drive	SSD SATA, 6 Gb/s, 800 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 800 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
olid-State-Drive	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
ond State Drive	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
olid-State-Drive	SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
Jiid-State-Diive	
	SSD SATA, 6 Gb/s, 120 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years) SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 1.6 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.6 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.2 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) SSD SATA, 6 Gb/s, 1.2 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	AND AND DEDUCE LEAD READ-INTENSIVE HOLDING EXECUTION POLICIONSE LEDWED HOVE WHICK PER DAY FOR 5 VEXIS.

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### More information

#### Fujitsu platform solutions

In addition to Fujitsu PRIMERGY TX2540 M1, 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

www.fujitsu.com/software/

#### More information

Learn more about Fujitsu PRIMERGY TX2540 M1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

http://www.fujitsu.com/fts/products/computing/servers/primergy/tower/tx2540m1/

#### Fujitsu green policy innovation

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