

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
<p>Cost effective performance</p> <ul style="list-style-type: none">■ Intel® Xeon® E5-2400 v2 product family with up to 10 cores■ Up to 192 GB memory (12 DIMM slots) and up to 6 PCIe slots, 768GB RAM on special release	<ul style="list-style-type: none">■ Provides a well-balanced price / performance ratio for SMBs and branch offices■ Optimized for server-based computing, virtualization, databases and ERP & CRM software, collaboration & messaging solutions
<p>Solid expandability and redundancy</p> <ul style="list-style-type: none">■ Expanded scalability of up to 24 2.5-inch or 8 3.5-inch storage drives, 5 PCIe Gen2/3 and 1 PCI slot■ Optional redundant power supply units and fans■ Optional rack mount kit	
<p>Silent, compact, and easy to deploy</p> <ul style="list-style-type: none">■ Low noise emissions through optimized air flow and Fujitsu's Cool-safe® technology■ Compact 4U chassis■ Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control	

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® processor E5-2400 v2 product family

Graphics add on cards	Professional 2D: NVIDIA® NVS™ 315, PCIe x16, 2x DVI/VGA
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Memory slots	12 (6 DIMMs per CPU, 3 channels with 2 slots 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.
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Memory options	4 GB (1 module(s) 4 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, single rank 8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, single rank 16 GB (1 module(s) 16 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank
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Interfaces	
USB 2.0 ports	9 x USB 2.0 (2 x front UHCI USB, 4 x rear UHCI USB, 2 x internal for backup, 1x UFM internal boot device)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x serial RS-232-C (9 pin), usable for iRMC S4 or system or common use
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet (Intel i210)
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 described under Components
SATA Controller	Intel® C602, 6-port SATA (4 x for internal hard disks, 2 x for accessible drives)
SATA controller type notes	On board SATA controller supports RAID levels 0, 1, 10
LAN Controller	2 x 10/100/1000 Mbit/s Ethernet 2 x Intel i210
Remote management controller	IPMI 2.0 compatible Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller)
Trusted Platform Module (TPM)	Infineon / TPM 1.2 module; TCG compliant (option)

Slots	
PCI-Express 3.0 x4 (mech. x8)	2 x Full height 280 mm length
PCI-Express 3.0 x16	2 x Full height first slot: 280 mm length, second slot: 170 mm length (only available with second CPU)
PCI-Express 2.0 x4 (mech. x8)	1 x Full height 230 mm length; preferred RAID slot
PCI-slots	1 x PCI 32Bit/33 MHz (support for 3.3V and 3.3V/5V cards; no support of 5V only cards)
Slot Notes	in SAS configuration 1x PCI-Express occupied by modular RAID 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 relevant 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 x 5.25/1.6-inch for 1 x backup drive + 1 x ODD	3 x 5.25/1.6-inch for 1 x backup drive + 1 x 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		
Status LEDs	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 versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support		

Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	Hyper-V Server 2016
	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 redundant PSU. Rack depth includes handles of redundant PSU, excludes rack handles / front
Height Unit Rack	4 U
Weight	16 kg - 32 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option

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 electronic equipment)
Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
China	CCC
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 user may be required to take adequate measures.

Components

Backup Drives	LTO5HH Ultrium, 1,500 GB, 140 MB/s, half height, SAS 6Gb/s
	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

Hard disk drives

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
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
HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical

Hard 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
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
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
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

Solid-State-Drive	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) SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years) 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) 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) 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) 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) 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)
SCSI / SAS Controller	LSI SAS Ctrl 6G 8ext PCIe FH SAS Ctrl. 6 Gbit/s 8 ports ext. PCIe 2.0 x8
RAID Controller	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache Fujitsu RAID Ctrl SAS 6G 1GB (D3116C), RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208) Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, 8 ports int. RAID level: 0, 1, 10, No BBU support Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50, No FBU support
Fibre Channel controller	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-F MMF LC-style
Communication, Network	Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®) Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 SFP+ (Fujitsu) Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 RJ45 (Intel®) Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®) Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®) Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
Graphics add on cards	NVIDIA® NVS™ 315, PCIe x16, 2x DVI/VGA
Rack infrastructure	Rack Mount Kit Cable Management for 19-inch DataCenter / PRIMECENTER Racks Cable Arm 2U for PRIMECENTER- and 3rd-party racks
Warranty	
Warranty period	3 years
Warranty type	Onsite warranty Warranty conditions tbd
Product Related 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 Weblink	http://ts.fujitsu.com/Supportservice

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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