

Data Sheet FUJITSU Server PRIMERGY TX2540 M1 Dual socket Intel® Xeon® processor tower server

Well-balance price-performance

FUJITSU Server PRIMERGY systems provi e the most powerful and flexible data center solutions for companies of all sizes, across all in ustries an for any type of workloa. This inclu es expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact an scalable bla e systems, as well as ensity-optimize scale-out servers. They convince by business proven quality with a wie range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in aily operations in or er to turn IT faster into a business a vantage.

Perfect for small an me ium businesses as well as branch offices, FUJITSU Server PRIMERGY TX tower systems are robust and cost-efficient servers by provi ing rock soli reliability. A itionally they are characterize by simple IT operations, low power consumption an quiet operation so that they can be han le by non-technically trained staff and can be used in standard office environments. By the way: Almost all PRIMERGY TX servers can be rack-mounted to offer best flexibility.

PRIMERGY TX2540 M1

The FUJITSU PRIMERGY TX2540 M1 is the perfect Tower Server for small an me ium-size companies (SMB) as well as branches. It supports up to two processors of the Intel Xeon E5-2400 v2 family, thus combining affor able 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 atabase an communication server. Furthermore, optional re un ancy secures stable an reliable operation. Thanks to its minimum operational noise, the server is ideal for offices, for example un er the esk. Furthermore, the comprehensive Fu itsu ServerView® Suite provi es support for a ministrators uring server installation,

eployment an a ministration.









Features & Benefits

Main Features Benefits Cost effective performance ■ Intel® Xeon® E5-2400 v2 product family with up to 10 cores ■ Provi es a well-balance price / performance ratio for SMBs an ■ Up to 192 GB memory (12 DIMM slots) and up to 6 PCle slots branch offices ■ Optimize for server-base computing, virtualization, atabases and ERP & CRM software, collaboration & messaging solutions Solid expandability and redundancy ■ Expanded scalability of up to 24 2.5-inch or 8 3.5-inch storage ■ High levels of expandability and the performance of two processors drives, 5 PCIe Gen2/3 and 1 PCI slot perfect for virtualization Optional re un ant power supply units an fans ■ Tailor the level of re un ancy to your nee san your bu get Optional rack mount kit ■ When the company grows your PRIMERGY TX2540 M1 can easily be converte into a rack server Silent, compact, and easy to deploy ■ Silent operation for use in offices or showrooms Low noise emissions through optimized air flow and Fujitsu's Cool-Safe™ technology ■ So small an silent that it might even be place un er esks ■ Compact 4U chassis ■ The comprehensive tools of the Fu itsu ServerView Suite eases the ■ Fu itsu ServerView Suite inclu ing tools for installation an a ministrators life eployment, permanent status monitoring an control

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Technical details

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	Stan ar	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				
Processor	Intel® Xeon® processor E5-2403v2 (4C/4T, 1.80 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,333 MHz, 80 W)				
	Intel® Xeon® processor E5-2407v2 (4C/4T, 2.40 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,333 MHz, 80 W)				
	Intel® Xeon® processor E5-2420v2 (6C/12T, 2.20 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 80 W)				
	Intel® Xeon® processor E5-2430Lv2 (6C/12T, 2.40 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 60 W)				
	Intel® Xeon® processor E5-2430v2 (6C/12T, 2.50 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 80 W)				
	Intel® Xeon® processor E5-2440v2 (8 Cores / 16 Threads, 1.90 GHz, TLC: 20 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 95 W)				
	Intel® Xeon® processor E5-2450v2 (8C/16T, 2.50 GHz, TLC: 20 MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 95 W)				
	Intel® Xeon® processor E5-2470v2 (10C/20T, 2.40 GHz, TLC: 25 MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 95 W)				
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 (Chipkill™)				
Memory notes	On project release max 768 GB possible Performance Mode requires identical modules in all channels of each bank per CPU.				
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				
Interfaces					
USB 2.0 ports	9 x USB 2.0 (2 x front UHCl USB, 4 x rear UHCl USB 2 x internal for backup, 1x UFM and internal USB)				
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	additional RAID cont	roller options are descril	ped under Components	RAID controller	
SATA Controller		·	disks, 2x for accessible		
SATA controller type notes	•	oller supports RAID level		•	
Remote Management Controller	IPMI 2.0 compatible Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller)				
Trusted Platform Module (TPM)		nodule; TCG V1.2 compli		- 2.7 g.opin	

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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			
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 $1 \times backup drive + 1 \times ODC$			
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)				
	Har isks access (green)				
	Power (amber / green)				
	CPU status				
	Fan status				
	Har isk error				
	Temperature (SS (vollay))				
	CSS (yellow) Memory status				
	PSU status (green/ amber)				
	At system rear si e:				
	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 base setup utility				
	Recovery BIOS				
	BIOS settings save an restore				
	Local BIOS up ate from USB evice				
	Online update tools for main Windows and Linux versions				
	Local an remote up ate via ServerView Up ate Manager				
	SMBIOS V2.4				
	Remote PXE boot support				

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Operating Systems and Virtualization Software Certified or supported operating Microsoft® Hyper-V Server 2012 R2 systems and virtualization software Microsoft® Windows Server® 2012 R2 Datacenter Microsoft® Windows Server® 2012 R2 Standard Microsoft® Windows Server® 2012 R2 Essentials Microsoft® Windows Storage Server 2012 R2 Standard Microsoft® Hyper-V Server 2012 Microsoft® Windows Server® 2012 Datacenter Microsoft® Windows Server® 2012 Standard Microsoft® Windows Server® 2012 Essentials Microsoft® Windows Storage Server 2012 Standard Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Datacenter Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Standard VMware vSphere™ 5.5 Embedded VMware vSphere™ 5.5 SUSE® Linux Enterprise Server 12 SUSE® Linux Enterprise Server 11 SUSE® Linux Enterprise Server 10 SUSE® Linux Enterprise Server 10 with XEN Red Hat® Enterprise Linux 6 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Citrix® XenServer® 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 Server Management Standard ServerView Suite - Deploy SV Installation Manager SV Scripting Toolkit ServerView Suite - Control Operations Manager incl. PDA and ASR & R (Prefailure and Analysis; Automatic Server Recovery and Restart) Agents and CIM Providers System Monitor RAID Manager Capacity Management Power Management Storage Support ServerView Suite - Maintain Remote Management (iRMC) Update Management (BIOS, Firmware, Windows Drives and SV Agents) Performance Measurement Asset Management Online Diagnostics ServerView Suite - Integrate Integration packs e.g. for Microsoft System Center, VMware vCenter, Nagios, HP SIM and others

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Deployment Solutions and others

Server Management		
Option	ServerView Suite - Maintain	
ορασι	iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media	
	ServerView Suite - Dynamize	
	Virtual-10 Manager (VIOM) Resource Orchestrator Virtual E ition (ROR VE)	
	Resource Orchestrator Virtual Entitle (ROR CE)	
	ServerView Suite - Integrate	
	Integration pack for Fujitsu ManageNow® solution	
Server Management notes	Regar ing epen encies for ServerView Suite software pro ucts see e icate pro uct ata sheets.	
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	
Environmental		
Operating ambient temperature	10 - 35 ℃	
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)	30 dB(A) idle mode/ 30 dB(A) operation mode with SAS HDDs;36 dB(A) idle mode/ 36 dB(A) operation mode with HDD extension boxes;	
Sound power (LWAd; 1B = 10dB)	4,0 B idle / 4,0 B operation mode; 4,8 idle mode/ 4,8 operation mode with SAS HDDs;5,4 B idle mode/ 5,4 B operation mode with HDD extension boxes;	
Noise notes	Noise emissions and operation modes depend on system configuration.	
Electrical values		
Power supply configuration	1x standard power supply or 1x hot-plug power supply or 2x hot plug power supply for redundancy depending on model	
Standard power supply output	800 W (90 % efficiency, 80 PLUS gold)	
Hot-plug power supply output	450 W or 800 W (94 % efficiency, 80 PLUS platinum) or 800 W (96 % efficiency, 80 PLUS titanium)	
Hot-plug power supply redundancy	Yes	
Rated voltage range	100 V - 240 V	
Rated frequency range	47 Hz - 63 Hz	
Rated current max.	7.6 A The rated current in basic configuration values are pending confirmation.	
Active power (min. configuration)	65 W	
Active power (max. configuration)	432 W	
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/	
Apparent power (max. configuration)	435 VA	
Heat emission	1555.2 kJ/h (1474.0 BTU/h)	
Power Supply Notes	800W - 96% efficiency (80 plus titanium)	
Compliance		
Global	CB RoHS (Restriction of hazar ous substances) WEEE (Waste electrical an electronical equipment)	
Germany	TÜV GS	
Europe	CE Class A *	
USA/Canada	CSAc/us	
	ULc/us	
	FCC Class A	
Japan	VCCI Class A + JIS 61000-3-2	

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Components

Storage drives	SSD SATA, 6 Gb/s, 800 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise SSD SATA, 6 Gb/s, 400 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise					
	SSD SATA, 6 Gb/s, 200 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise					
	SSD SATA, 6 Gb/s, 100 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise					
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, business critical					
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical					
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical HDD SATA, 6 Gb/s, 3 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, 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 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, 10,000 rpm, hot-plug, 2.5-inch, enterprise					
	HDD SAS, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical					
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise					
	HDD SAS, 6 Gb/s, 450 GB, 10,000 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, 146 GB, 15,000 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, 3 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					
Backup Drives	LTO4HH Ultrium, 800 GB, 120 MB/s, half height, SAS 6Gb/s					
	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					
	RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0					
Optical drives	B iisu Iripa5 iteu M 2X t,)s iI					
•	B iisu Iripa5 iteu MI					

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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, Optional BBU for selected systems (based on LSI SAS2108)		
	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 1GB (D3116C), 8 ports int.		
	RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)		
	RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.		
	RAID level: 0, 1, 10, No BBU support		
Communication, Network	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.0 x8 (Fujitsu)		
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 (Intel®) Ethernet Ctrl. 2 x 1 Gbit/s PCle 2.1 x4 (Intel®)		
Graphics add on cards	NVIDIA® Quadro® NVS 300, PCle x1, 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			
Standard Warranty	3 years		
Service level	Onsite Service Warranty con itions tb		
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM		
Maintenance and Support Services -	the perfect extension		
Support Pack Options	Globally available in ma or business areas:		
-	9x5, Next Business Day Onsite Response Time		
	9x5, 4h Onsite Response Time		
	24x7, 4h Onsite Response Time		
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.		
Recommended Service Service Lifecycle	24x/, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner. 5 years after end of product life		

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY TX2540 M1, Fu itsu provi es a range of platform solutions. They combine reliable Fu itsu pro ucts with the best in services, know-how an worl wi e partnerships.

Fujitsu Portfolio

Buil on in ustry stan ar s, Fu itsu offers a full portfolio of IT har ware an software pro ucts, services, solutions an clou offering, ranging from clients to atacenter solutions an inclu es the broa stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing an elivery mo els to increase their business agility an to improve their IT operation's reliability.

Computing Products

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Software

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More information

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

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Fujitsu green policy innovation

Fu itsu Green Policy Innovation is our worl wi e pro ect for re ucing bur ens 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.fu itsu.com/global/about/environment

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