

Data Sheet

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

Well-balanced price- performance

FUJITSU Server PRIMERGY systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as density-optimized scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in daily operations in order to turn IT faster into a business advantage.

Perfect for small and medium businesses as well as branch offices, FUJITSU Server PRIMERGY TX tower systems are robust and cost-efficient servers by providing rock solid reliability. Additionally they are characterized by simple IT operations, low power consumption and quiet operation so that they can be handled 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 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 ■ Intel® Xeon® E5-2400 v2 product family with up to 10 cores ■ Provides a well-balanced price / performance ratio for SMBs and ■ Up to 192 GB memory (12 DIMM slots) and up to 6 PCle slots branch offices Optimized for server-based computing, virtualization, databases 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 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 Cool-■ Silent operation for use in offices or showrooms Safe™ technology So small and silent that it might even be placed under desks ■ Compact 4U chassis ■ The comprehensive tools of the Fujitsu ServerView Suite eases the ■ Fujitsu ServerView Suite including tools for installation and administrators life deployment, permanent status monitoring and 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	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				
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 fron	t UHCI USB, 4 x rear UHC	I USB 2 x internal for ba	ckup, 1x UFM and inter	nal USB)
Graphics (15-pin)	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) 1 x VGA				
Serial 1 (9-pin)	1 x serial RS-232-C (9	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	additional RAID cont	roller options are descril	ped under Components	RAID controller	
SATA Controller	Intel® C602, 6-port SATA (4x for internal hard disks, 2x for accessible drives)				
SATA controller type notes	On board SATA controller supports RAID levels 0, 1, 10				
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		- 5.7s.i g.opiii	>,

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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 modu			
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 $1 \times backup drive + 1 \times ODD$		
Fan Configuration				
Number of fans	4			
Fan configuration	3 fans as standard plus 1 additional fan for redundand	y 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			
	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 Windows and Linux versions			
	Local and remote update via ServerView Update 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 Server Management	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 Edition (ROR VE)
	Resource Orchestrator Virtual Edition (ROR CE)
	ServerView Suite - Integrate
	Integration pack for Fujitsu ManageNow® solution
Server Management notes	Regarding dependencies for ServerView Suite software products see dedicated product data 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 hazardous substances) WEEE (Waste electrical and 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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Compliance	
China	CCC (planned)
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance link	http://globalsp.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

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	Blu-ray Disc™ Triple Writer, (6x BD-ROM; 8x DVD; 24x CD), slimline, SATA I				
	Blu-ray Disc™ Triple Writer, (6x BD-ROM				
	; 8x DVD; 24x CD), slimline, SATA I				
	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				

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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®)		
	Ethernet Ctrl. 4 x 1 Gbit/s PCle 2.1 x4 (Intel®)		
Graphics add on cards	NVIDIA® Quadro® NVS 300, PCIe 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 conditions tbd		
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 major 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.		
Service Lifecycle	5 years after end of product life		
Service Weblink	http://www.fujitsu.com/fts/services/support		

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More information

Fujitsu OPTIMIZATION Services

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.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/services/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. www.fujitsu.com/fts

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens 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.fujitsu.com/global/about/environment



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