FUJITSU

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

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.

Datasheet for Red Hat certification

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











Features & Benefits

Main Features

Cost effective performance

- 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

Solid expandability and redundancy

- 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

Silent, compact, and easy to deploy

- 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

Benefits

- 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
- High levels of expandability and the performance of two processors
 perfect for virtualization
- Tailor the level of redundancy to your needs and your budget
- When the company grows your PRIMERGY TX2540 M1 can easily be converted into a rack server
- Silent operation for use in offices or showrooms
- So small and silent that it might even be placed under desks
- 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® p	processor E5-2400 v2 pr	oduct 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 slot	s 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 ma Performance Mode re		es in all channels of each	n 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				
nterfaces					
JSB 2.0 ports	9 x USB 2.0 (2 x front	: UHCI USB, 4 x rear UHC	I USB 2 x internal for ba	ckup, 1x UFM and inter	nal USB)
Graphics (15-pin)	1 x VGA				
	1 x serial RS-232-C (9 pin), usable for iRMC S4 or system or common use			use	
Serial 1 (9-pin)	2 x Gbit/s Ethernet (Intel i210)				
		ntel i210)		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)	
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet (I Management LAN tra	affic can be switched to		•	
LAN / Ethernet (RJ-45) Management LAN (RJ45)	2 x Gbit/s Ethernet (I Management LAN tra	affic can be switched to		•	
LAN / Ethernet (RJ-45) Management LAN (RJ45) Onboard or integrated Controller	2 x Gbit/s Ethernet (I Management LAN tra 1 x dedicated manag additional RAID cont	offic can be switched to ement LAN port for iRM roller options are descri	C S4 (10/100/1000 Mbi ped under Components I	RAID controller	
Serial 1 (9-pin) LAN / Ethernet (RJ-45) Management LAN (RJ45) Onboard or integrated Controller RAID controller SATA Controller	2 x Gbit/s Ethernet (I Management LAN tra 1 x dedicated manag additional RAID cont Intel® C602, 6-port Sa	offic can be switched to ement LAN port for iRM roller options are descril	C S4 (10/100/1000 Mbi ped under Components I I disks, 2x for accessible	RAID controller	
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Onboard or integrated Controller			
Trusted Platform Module (TPM)	Infineon / separate module; TCG V1.2 compliant (optic	n)	
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: 1	70 mm length (only available with second (PU)	
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 ca	rds: 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 confi	gurator.	
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 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 redundanc	v operation possible (option)	
Fan notes	redundant fan configuration depends on base unit an		
Operating panel			
Operating buttons	On/off switch		
operating battons	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:		
	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		

Operating Systems and Virtualization	
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 7
	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
	Deployment Solutions and others

Server Management	
Option	ServerView Suite - Maintain
-	iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media
	ServerView Suite - Dynamize
	Virtual-IO Manager (VIOM)
	Resource Orchestrator Virtual Edition (ROR VE)
	Resource Orchestrator Cloud Edition (ROR CE)
	ServerView Suite - Integrate
	Integration pack for Fujitsu ManageNow® solution
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 °C
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

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

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 PCIe 2.0 x8 (Fujitsu)	
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 (Intel®)	
	Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 (Intel®)	
	Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 (Intel®)	
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	

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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