

Data Sheet Fujitsu Server PRIMERGY TX1320 M1 Tower Server

Datasheet for Red Hat certification

For small environments with high demands

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 TX1320 M1

The FUJITSU Server PRIMERGY TX1320 M1 is the perfect server for environments where space, full server functionality and silent operation are crucial. The ultra-compact tower server is an excellent choice for retail premises, branch offices, or in other contexts where strict legal controls apply, e.g. medical, legal or financial services. With full server management capabilities the system can easily be integrated into existing IT infrastructures or administered from afar. Despite its size the PRIMERGY TX1320 M1 features Intel® Xeon® processor E3 family performance, up to four storage drives and supports an optional backup device. This unique combination makes it ideal for demanding environments where space is scarce.













Features & Benefits

Main Features Benefits Cost effective performance ■ Intel® Xeon® processor E3 v3 family with up to 4 cores ■ Provides more than enough performance for small and medium-■ Up to 32 GB ECC memory (4 DIMMs) and 4 PCIe slots sized businesses and branch offices ■ Ideal for all classic server tasks, such as file, print, web or office applications Support for special solutions ■ Ultra-small form factor fits everywhere – in either tower or desktop ■ Space-saving: ideal for small offices, at point of sales or in racks for telephone systems 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 on the desk Full server management features & easy accessibility ■ Fujitsu ServerView Suite including tools for installation and ■ Small server but full server management features: The deployment, permanent status monitoring and control comprehensive tools of the Fujitsu ServerView Suite eases the Screwless chassis, hot-plug 2.5-inch and "Easy Rails" for 3.5-inch administrators life storage disks ■ Easy, fast and comfortable access to the interior of the server, the hard disks and the PCI slots

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Technical details

PRIMERGY TX1320 M1		
Base unit	PRIMERGY TX1320 M1 SFF	PRIMERGY TX1320 M1 LFF
Housing types	Ultra-compact form-factor	Ultra-compact form-factor
Storage drive architectur	·	2x 3.5-inch SATA (non hot-plug)
	2.3 men	27.5.5 men 5 m ((non not prog)
Mainboard	02220	
Mainboard type	D3239	
Chipset	Intel® C224	Th:2
Processor quantity and ty	·· '	ore™ i3 processor / Intel® Xeon® processor E3-1200v3 product family
	Intel® Xeon® processor E3-1220v3 (4C/4T, 3.10 GHz, TLC: 8	
	Intel® Xeon® processor E3-1231v3 (4C/8T, 3.40 GHz, TLC: 8	
	Intel® Xeon® processor E3-1240Lv3 (4C/8T, 2.00 GHz, TLC:	
	Intel® Xeon® processor E3-1241v3 (4C/8T, 3.50 GHz, TLC: 8	8 MB, Turbo: 3.70 GHz, Mem bus: 1,600 MHz, 80 W)
	Intel® Xeon® processor E3-1271v3 (4C/8T, 3.60 GHz, TLC: 8	8 MB, Turbo: 3.80 GHz, Mem bus: 1,600 MHz, 80 W)
	Intel® Xeon® processor E3-1275Lv3 (4C/8T, 2.70 GHz, TLC:	: 8 MB, Turbo: 3.30 GHz, Mem bus: 1,600 MHz, 45 W)
	Intel® Xeon® processor E3-1281v3 (4C/8T, 3.70 GHz, TLC: 8	8 MB, Turbo: 3.90 GHz, Mem bus: 1,600 MHz, 82 W)
Nemory slots	4	
Nemory slot type	DIMM (DDR3) UDIMM	
Memory capacity (min	max.) 4 GB - 32 GB	
Nemory protection	ECC	
Memory notes	Mix and match possible; with dual chand Single channel (1 module) configuration	nel operation better performance (2 modules with equal capacity necessary). n possible.
Memory options	4 GB (1 module(s) 4 GB) DDR3, unbuffer	red, ECC, 1,600 MHz, PC3-12800, DIMM, single rank
, .		red, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank
Memory modules notes	1333MHz or 1600 MHz memory module	
nterfaces		
ISB 2.0 ports	7 (4x external rear, 2x external front, 1x	r internal for UFM, no USB wakeup supported)
ISB 3.0 ports	3 (2x external rear, 1x internal)	
iraphics (15-pin)	1 analog graphics interface derived from	iRMC (up to 1600x1200 or 1920x1080 at 16bpp)
erial 1 (9-pin)	1	
AN / Ethernet	2 x1 Gb/s Ethernet; RJ45	
Nanagement LAN (RJ45)		
Onboard or integrated Co	ontroller	
AID controller	Optionally integrated RAID 0/1 or RAID 5	6/6 controller for SAS base units (occupies one PCIe slot). escribed under Components RAID controller
ATA Controller	Intel® C224, 2 ports used for accessible of 4 port for internal SATA HDDs with RAID	0, 1, 10 for Windows and Linux;
ATA controller type note	4 port for internal SATA HDDs with RAID	0, 1, 10 for Windows and Linux
AN Controller	Intel® i217 + Intel® i210 onboard, 2 x 10 support, APM wake up. Intel® i210, 4xTX/4xRX, iSCSI and PXE 2.0 Service LAN: Realtek RTL8211E	0/100/1000 Mbit/s Ethernet, Intel® i217LM: 2xTX/2xRX, iSCSI remote boot 0-remote Boot via LAN, WoL.
Remote management co		ller (iRMC S3, 32 MB attached memory incl. graphics controller)
rusted Platform Module	·	
lots		
CI-Express 3.0 x8	2 x Low profile	
PCI-Express 2.0 x1 (mech	ı. x4) 1 x Low profile	
PCI-Express 2.0 x4 (mech	· · · · · · · · · · · · · · · · · · ·	

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Slots	
Slot Notes	In SAS configuration 1x PCI-Express occupied by modular RAID controller. In configurations with Intel® Core™ i3 or Intel® Pentium® processors slots are operated with PCI-Express 2.0.
Orive bays	
Storage drive bays	max 6 (4+2) x 2.5-inch hot-plug SAS/SATA or 2x 3.5-inch non hot-plug SATA.
Storage drive bay configuration	Not upgradeable in the field.
Accessible drive bays	1 x 3.5/1.6-inch for backup devices 1 x 5.25/0.5-inch for CD-RW/DVD
ptional hard disk bays	None
lumber of fans	3
an notes	Processor fan, rear fan, drive fan
)perating panel	
perating buttons	On/off switch
Status LEDs	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (orange / green) At system rear side: System status (orange / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow) CSS (yellow)
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 Server® 2012 R2 Foundation
	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 Server® 2012 Foundation
	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 R2 Foundation
	SUSE® Linux Enterprise Server 12
	SUSE® Linux Enterprise Server 11
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
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

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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
Option	ServerView Suite - Maintain
	iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media
	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)	98 x 399 x 340 mm
Dimension notes	without feet
Weight	up to 10 kg
Weight notes	Actual weight may vary depending on configuration
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
Sound pressure (LpAm)	SATA: 22 dB(A) idle mode / 23 dB(A) operating mode; SAS: 33 dB(A) idle mode / 35 dB(A) operating mode
Sound power (LWAd; 1B = 10dB)	SATA: 3.7 B idle mode / 3.7 B operating mode; SAS: 4.9 B idle mode/ 5 B operating mode
Noise notes	Noise emissions and operation modes depend on system configuration.
Electrical values	
Power supply configuration	1x standard power supply
Standard power supply output	250 W (94 % efficiency, 80 PLUS platinum)
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	100V-240V/6A-3A
Rated current in basic configuration	100V-240V/0.25A-0.22A
Active power (min. configuration)	25 W
Active power (max. configuration)	147 W
Active power (max. configuration) 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)	152 VA
Heat emission	529.2 kJ/h (501.6 BTU/h)
Compliance	
Global	(B
	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)

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Compliance	
Europe	CE Class A *
USA/Canada	CSA us ULc/us FCC Class A
South Korea	KC
China	CCC
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
Compliance notes	Above mentioned compliances are planned but not available at preliminary stage. 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, 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, non hot plug, 3.5-inch, economic HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, non 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, non hot plug, 3.5-inch, economic 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, non hot plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, non hot plug, 3.5-inch, business critical			
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, non 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, 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, 2.5-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, 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, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise	
			Backup Drives	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
				DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, 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				

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Communication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCle 1.1 x1 (Intel®)
	Ethernet Ctrl. 1 x 1 Gbit/s PCle 2.1 x1 (Intel®)
	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 PCIe 2.1 x4 (Intel®)
Wassaki	
Warranty	
Standard Warranty	1 year
Service level	Onsite Service (depending on country)
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 TX1320 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 TX1320 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/qlobal/about/environment



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