

Data Sheet

Fujitsu Server PRIMERGY TX1320 M1 Tower Server

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 <ul style="list-style-type: none">■ Intel® Xeon® processor E3 v3 family with up to 4 cores■ Up to 32 GB ECC memory (4 DIMMs) and 4 PCIe slots	<ul style="list-style-type: none">■ Provides more than enough performance for small and medium-sized businesses and branch offices■ Ideal for all classic server tasks, such as file, print, web or office applications
Support for special solutions <ul style="list-style-type: none">■ Ultra-small form factor fits everywhere – in either tower or desktop position■ Low noise emissions through optimized air flow and Fujitsu's Cool-safe® technology	<ul style="list-style-type: none">■ Space-saving: ideal for small offices, at point of sales or in racks for telephone systems■ Silent operation for use in offices or showrooms■ So small and silent that it might even be placed on the desk
Full server management features & easy accessibility <ul style="list-style-type: none">■ Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control■ Screwless chassis, hot-plug 2.5-inch and "Easy Rails" for 3.5-inch storage disks	<ul style="list-style-type: none">■ Small server but full server management features: The comprehensive tools of the Fujitsu ServerView Suite eases the administrators life■ Easy, fast and comfortable access to the interior of the server, the hard disks and the PCI slots

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 architecture	2.5-inch	2x 3.5-inch SATA (non hot-plug)

Mainboard

Mainboard type	D3239
Chipset	Intel® C224
Processor quantity and type	1 x Intel® Pentium® processor / Intel® Core™ i3 processor / Intel® Xeon® processor E3-1200v3 product family

Processor	Intel® Celeron® processor G1820 (2C/2T, 2.70 GHz, TLC: 2 MB, Turbo: No, 1,333 MHz, 54 W)
	Intel® Core™ i3-4330 processor (2C/4T, 3.50 GHz, TLC: 4 MB, Turbo: No, 1,600 MHz, 54 W)
	Intel® Pentium® processor G3420 (2C/2T, 3.20 GHz, TLC: 3 MB, Turbo: No, 1,600 MHz, 54 W)
	Intel® Xeon® processor E3-1220v3 (4C/4T, 3.10 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 80 W)
	Intel® Xeon® processor E3-1231v3 (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 80 W)
	Intel® Xeon® processor E3-1240Lv3 (4C/8T, 2.00 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 25 W)
	Intel® Xeon® processor E3-1241v3 (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 80 W)
	Intel® Xeon® processor E3-1271v3 (4C/8T, 3.60 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 80 W)
	Intel® Xeon® processor E3-1275Lv3 (4C/8T, 2.70 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 45 W)
	Intel® Xeon® processor E3-1281v3 (4C/8T, 3.70 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 80 W)

Memory slots	4
Memory slot type	DIMM (DDR3) UDIMM
Memory capacity (min. - max.)	2 GB - 32 GB
Memory protection	ECC
Memory notes	Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.

Memory options	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM, single rank 8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank
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Memory modules notes	1333MHz or 1600 MHz memory modules
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Interfaces

USB 2.0 ports	7 (4x external rear, 2x external front, 1x internal for UFM, no USB wakeup supported)
USB 3.0 ports	3 (2x external rear, 1x internal)
Graphics (15-pin)	1 analog graphics interface derived from iRMC (up to 1600x1200 or 1920x1080 at 16bpp)
Serial 1 (9-pin)	1
LAN / Ethernet	2 x1 Gb/s Ethernet; RJ45
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S4 (10/100/1000 Mbit/s) Management LAN traffic can be switched to shared onboard Gbit LAN port

Onboard or integrated Controller

RAID controller	Optionally integrated RAID 0/1 or RAID 5/6 controller for SAS base units (occupies one PCIe slot). additional RAID controller options are described under Components RAID controller
SATA Controller	Intel® C224, 2 ports used for accessible drives 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;

Onboard or integrated Controller

SATA controller type notes	4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux
LAN Controller	Intel® i217 + Intel® i210 onboard, 2 x 10/100/1000 Mbit/s Ethernet, Intel® i217LM: 2xTX/2xRX, iSCSI remote boot support, APM wake up. Intel® i210, 4xTX/4xRX, iSCSI and PXE 2.0-remote Boot via LAN, WoL. Service LAN: Realtek RTL8211E
Remote management controller	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller) IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon / 1.2 (option)

Slots

PCI-Express 3.0 x8	2 x Low profile
PCI-Express 2.0 x1 (mech. x4)	1 x Low profile
PCI-Express 2.0 x4 (mech. x8)	1 x Low profile
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.

Drive 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
Optional hard disk bays	None
Number of fans	3
Fan notes	Processor fan, rear fan, drive fan

Operating panel

Operating 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 systems and virtualization software	Microsoft® Hyper-V Server 2012 R2
	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 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

Server Management

Standard	<ul style="list-style-type: none"> ServerView Suite - Deploy <ul style="list-style-type: none"> SV Installation Manager SV Scripting Toolkit ServerView Suite - Control <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Remote Management (iRMC) Update Management (BIOS, Firmware, Windows Drives and SV Agents) Performance Measurement Asset Management Online Diagnostics ServerView Suite - Integrate <ul style="list-style-type: none"> Integration packs e.g. for Microsoft System Center, VMware vCenter, Nagios, HP SIM and others Deployment Solutions and others
Option	<ul style="list-style-type: none"> ServerView Suite - Maintain <ul style="list-style-type: none"> iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media ServerView Suite - Integrate <ul style="list-style-type: none"> 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 °C
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Environmental

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 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	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment)
Germany	GS
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
Communication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCIe 1.1 x1 (Intel®)
	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®)
Graphics	NVIDIA® Quadro® NVS 300 LP, PCIe x1, 2x DVI/VGA
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

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/global/about/environment>



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2014-10-08 CE-EN

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