

# Data Sheet

## Fujitsu Server PRIMERGY TX1320 M2 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 M2

The FUJITSU Server PRIMERGY TX1320 M2 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. 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 M2 features Intel® Xeon® processor E3 family performance, up to six 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
<p><b>Cost effective performance</b></p> <ul style="list-style-type: none"><li>■ Intel® Xeon® processor E3 v5 family with up to 4 cores</li><li>■ Up to 64 GB DDR4 ECC memory (4 DIMMs) and 4 PCIe slots</li><li>■ Low energy consumption - full server performance</li></ul> <p><b>Support for special solutions</b></p> <ul style="list-style-type: none"><li>■ Ultra-small form factor fits everywhere – in either tower or desktop position</li><li>■ Low noise emissions through optimized air flow and Fujitsu's Cool-safe® technology</li></ul> <p><b>Full server management features &amp; easy accessibility</b></p> <ul style="list-style-type: none"><li>■ Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control</li><li>■ Screwless chassis, hot-plug 2.5-inch and "Easy Rails" for 3.5-inch storage disks</li></ul>	<ul style="list-style-type: none"><li>■ Provides more than enough performance for small and medium-sized businesses and branch offices</li><li>■ Ideal for all classic server tasks, such as file, print, web or office applications</li><li>■ Good for the energy bill and for the environment</li></ul> <ul style="list-style-type: none"><li>■ Space-saving: ideal for small offices, at point of sales or in racks for telephone systems</li><li>■ Silent operation for use in offices or showrooms</li><li>■ So small and silent that it might even be placed on the desk</li></ul> <ul style="list-style-type: none"><li>■ Small server but full server management features: The comprehensive tools of the Fujitsu ServerView Suite eases the administrators life</li><li>■ Easy, fast and comfortable access to the interior of the server, the hard disks and the PCI slots</li></ul>

# Technical details

## PRIMERGY TX1320 M2

Base unit	PRIMERGY TX1320 M2 SFF	PRIMERGY TX1320 M2 LFF
Housing types	Ultra-compact form-factor	Ultra-compact form-factor
Storage drive architecture	2.5-inch	3.5-inch

## Mainboard

Mainboard type	D3373
Chipset	Intel® C236
Processor quantity and type	1 x Intel® Pentium® processor / Intel® Core™ i3 processor / Intel® Xeon® processor E3-1200 v5 product family

Processor	Intel® Core™ i3-6100 processor (2C/4T, 3.70 GHz, TLC: 3 MB, Turbo: No, 2,133 MHz, 51 W)
	Intel® Pentium® processor G4400 (2C/2T, 3.30 GHz, TLC: 3 MB, Turbo: No, 2,133 MHz, 54 W)
	Intel® Xeon® processor E3-1220v5 (4C/4T, 3.00 GHz, TLC: 8 MB, Turbo: 3.50 GHz, 2,133 MHz, 80 W)
	Intel® Xeon® processor E3-1230v5 (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: 3.80 GHz, 2,133 MHz, 80 W)
	Intel® Xeon® processor E3-1240Lv5 (4C/8T, 2.10 GHz, TLC: 8 MB, Turbo: 3.20 GHz, 2,133 MHz, 25 W)
	Intel® Xeon® processor E3-1240v5 (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: 3.90 GHz, 2,133 MHz, 80 W)
	Intel® Xeon® processor E3-1260Lv5 (4C/8T, 2.90 GHz, TLC: 8 MB, Turbo: 3.90 GHz, 2,133 MHz, 45 W)
	Intel® Xeon® processor E3-1270v5 (4C/8T, 3.60 GHz, TLC: 8 MB, Turbo: 4.00 GHz, 2,133 MHz, 80 W)
	Intel® Xeon® processor E3-1280v5 (4C/8T, 3.70 GHz, TLC: 8 MB, Turbo: 4.00 GHz, 2,133 MHz, 80 W)

Memory slots	4
Memory slot type	DIMM (DDR4)
Memory capacity (min. - max.)	4 GB - 64 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) DDR4, unbuffered, ECC, 2,133 MHz, PC4-2133, DIMM, 1Rx8
	8 GB (1 module(s) 8 GB) DDR4, unbuffered, ECC, 2,133 MHz, PC4-2133, DIMM, 2Rx8
	16 GB (1 module(s) 16 GB) DDR4, unbuffered, ECC, 2,133 MHz, PC4-2133, DIMM, 2Rx8

Memory modules notes	2,133 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 serial RS-232-C
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® C236, 2 ports used for accessible drives
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. iSCSI, PXE-Boot and WoL are supported
Remote management controller	Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller) IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon / TPM 1.2 module; TCG compliant (option)

## Slots

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

**Slots**

Slot Notes	In SAS configuration 1x PCI-Express occupied by modular RAID controller.
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**Drive bays**

Storage drive bays	3.5-inch non hot-plug or 2.5-inch hot-plug SAS/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	
Storage drive bays	Max. 6x (4x + 2x) x 2.5-inch hot-plug	Max. 2 x 3.5-inch non hot-plug SATA
Number of fans	3	
Fan notes	Processor fan, rear fan, drive fan	

**Operating panel**

Operating buttons	On/off switch NMI button Reset button
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**

Operating system release link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473</a>
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 in combination with Intel® Node Manager) 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

**Dimensions / Weight**

<b>Weight</b>	up to 10 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration

**Environment**

<b>Operating ambient temperature</b>	5 - 40 °C (41 - 104 °F)
<b>Operating temperature note</b>	Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed information see relevant system configurator.
<b>Operating relative humidity</b>	10 - 85 % (non condensing)
<b>Operating environment</b>	FTS 04230 – Guideline for Data Center (installation specification)
<b>Operating environment link</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>
<b>Sound pressure (LpAm)</b>	SATA: 23 dB(A) idle mode / 25 dB(A) operating mode; SAS: 30 dB(A) idle mode / 30 dB(A) operating mode
<b>Sound power (LWAd; 1B = 10dB)</b>	SATA: 3.6 B idle mode / 3.8 B operating mode; SAS: 4.3 B idle mode/ 4.4 B operating mode
<b>Noise notes</b>	Noise emissions depend on operation modes, system configuration and ambient temperature.

**Electrical values**

<b>Power supply configuration</b>	1x standard power supply
<b>Active power (max. configuration)</b>	231 W
<b>Apparent power (max. configuration)</b>	235 VA
<b>Heat emission</b>	831.6 kJ/h (788.2 BTU/h)
<b>Rated current max.</b>	5 A (100 V) / 2.5 A (240 V)
<b>Active power note</b>	To estimate the power consumption of different configurations use the Power Calculator of the System Architect: <a href="http://configurator.ts.fujitsu.com/public/">http://configurator.ts.fujitsu.com/public/</a>
<b>Power supply</b>	250W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz

**Compliance**

<b>Global</b>	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic equipment)
<b>Germany</b>	GS
<b>Europe</b>	CE
<b>USA/Canada</b>	CSA us ULc/us FCC Class A
<b>Japan</b>	VCCI:V3 Class A + JIS 61000-3-2
<b>Russia</b>	GOST-R
<b>South Korea</b>	KC
<b>China</b>	CCC
<b>Australia/New Zealand</b>	C-Tick
<b>Taiwan</b>	BSMI
<b>Compliance link</b>	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>
<b>Compliance notes</b>	* 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

<b>Backup Drives</b>	RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0
<b>Optical drives</b>	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

**Hard disk drives**

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, non hot plug, 3.5-inch, business critical  
HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical  
HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical  
HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, non hot plug, 3.5-inch, business critical  
HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise  
HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise  
HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise  
HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise  
HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise  
HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise  
HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise  
HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise

**Solid-State-Drive**

SSD SATA, 6 Gb/s, 800 GB, Read-Intensive Endurance, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)  
SSD SATA, 6 Gb/s, 480 GB, Read-Intensive Endurance, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)  
SSD SATA, 6 Gb/s, 240 GB, Read-Intensive Endurance, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)  
SSD SATA, 6 Gb/s, 120 GB, Read-Intensive Endurance, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)

DOM SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 345TBW (Seq. write)  
DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 172TBW (Seq. write)

**RAID Controller**

RAID Ctrl., SAS/SATA 12 Gbit/s, Fujitsu PRAID CP400i, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50 No BBU support  
RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, Fujitsu PRAID EP420i, 8 ports int.  
RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108  
RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, Fujitsu PRAID EP400i, 8 ports int.  
RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108

**Communication, Network**

Ethernet Ctrl. 1 x 1 Gbit/s PCIe 2.1 x1 RJ45 ( Intel® )  
Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 SFP+ ( Fujitsu )  
Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 RJ45 ( Intel® )  
Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Emulex )  
Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 ( Intel® )  
Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 ( Intel® )

**Graphics add on cards**

NVIDIA® NVS™315 LP, PCIe x16, 2x DVI/VGA

**Warranty****Warranty period**

1 year

**Warranty type**

Onsite Service (depending on country)

**Warranty Terms & Conditions**

<http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM>

**Product 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 Service with 4h Onsite Response Time

**Service Lifecycle**

5 years after end of product life

**Service Weblink**

<http://www.fujitsu.com/fts/products/product-support-services/>

# More information

## Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY TX1320 M2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Built 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 offerings. This allows customers to select 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/products/computing/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu PRIMERGY TX1320 M2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://www.fujitsu.com/primergy>

## 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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