

Data Sheet

Fujitsu Server PRIMERGY TX1320 M2 Tower Server

For small environments with high demands

FUJITSU Server PRIMERGY will give you the servers you need to power any workload and changing business requirements. As business processes expand so does the need for applications. Each has its own resource footprint, so you need a way to optimize your computing to better serve your users. PRIMERGY systems will help you match your computing capabilities to your business priorities with our complete portfolio of expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as hyper-converged scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, provide more agility in daily operations, and integrate seamlessly to let help you concentrate on core business functions.

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>Cost effective performance</p> <ul style="list-style-type: none">■ Intel® Xeon® processor E3 v5 family with up to 4 cores■ Up to 64 GB DDR4 ECC memory (4 DIMMs) and 4 PCIe slots■ Low energy consumption - full server performance <p>Support for special solutions</p> <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 <p>Full server management features & easy accessibility</p> <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">■ 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■ Good for the energy bill and for the environment <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 <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 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® Celeron® processor G3900 (2C/2T, 2.80 GHz, TLC: 2 MB, Turbo: No, 2,133 MHz, 51 W)
	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 E3-1225v5 (4C/4T, 3.30 GHz, TLC: 8 MB, Turbo: 3.70 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). All hardware storage controller options are described under Components
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® 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 or TPM 2.0 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
Slot Notes	In SAS configuration 1x PCI-Express occupied by modular RAID controller.

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

Fan Configuration

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

Certified or supported operating systems and virtualization software

Microsoft® Hyper-V Server 2012 R2
 Microsoft® Hyper-V Server 2016
 Microsoft® Windows Server® 2012 R2 Datacenter
 Microsoft® Windows Server® 2016 Datacenter
 Microsoft® Windows Server® 2012 R2 Standard
 Microsoft® Windows Server® 2016 Standard
 Microsoft® Windows Server® 2012 R2 Essentials
 Microsoft® Windows Server® 2016 Essentials
 Microsoft® Windows Server® 2012 R2 Foundation
 Microsoft® Windows Storage Server 2012 R2 Standard
 Microsoft® Windows Storage Server 2016 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
 VMware vSphere™ 6.0
 VMware vSphere™ 6.5
 VMware vSphere™ 5.5
 SUSE® Linux Enterprise Server 12
 SUSE® Linux Enterprise Server 11
 Red Hat® Enterprise Linux 7
 Red Hat® Enterprise Linux 6
 Oracle® 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

ServerView Suite - Deploy
 Installation Manager
 Scripting Toolkit
 ServerView Suite - Control
 Operations Manager incl. PDA and ASR & R
 Agents and CIM Providers / Agentless Service
 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 Drivers, Agents and CIM Providers)
 Performance Measurement
 Asset Management
 Online Diagnostics
 ServerView Suite - Integrate
 Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM
 Deployment tools and others

Server Management

Option	ServerView embedded Lifecycle Management (eLCM) Lifecycle management ServerView Suite - Maintain iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media
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

Environment

Operating ambient temperature	5 - 40 °C (41 - 104 °F)
Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed information see relevant system configurator.
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=589915e9-1bf8-40f7-8ba4-7cac9371f2f0
Sound pressure (LpAm)	SATA: 23 dB(A) idle mode / 25 dB(A) operating mode; SAS: 30 dB(A) idle mode / 30 dB(A) operating mode
Sound power (LWAd; 1B = 10dB)	SATA: 3.6 B idle mode / 3.8 B operating mode; SAS: 4.3 B idle mode/ 4.4 B operating mode
Noise notes	Noise emissions depend on operation modes, system configuration and ambient temperature.

Electrical values

Power supply configuration	1x standard power supply
Active power (max. configuration)	231 W
Apparent power (max. configuration)	235 VA
Heat emission (max. configuration)	831.6 kJ/h (788.2 BTU/h)
Rated current max.	5 A (100 V) / 2.5 A (240 V)
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/
Power supply	250W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz

Compliance

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

Backup Drives	RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0
Optical drives	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, 512n, non hot plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, 512e, non hot plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 10 TB, 7,200 rpm, 512e, non hot plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 8 TB, 7,200 rpm, 512e, non hot plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 7,200 rpm, 512e, non hot plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, non hot plug, 3.5-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, 512n, non hot plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-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
Hard disk drives	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512e, 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, 600 GB, 10,000 rpm, 512e, 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, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPDP (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPDP (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 800 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPDP (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 800 GB, Read-Intensive Endurance, hot-plug, 2.5-inch, enterprise, 0.3 DWPDP (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPDP (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPDP (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPDP (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPDP (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 200 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPDP (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 DWPDP (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 120 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPDP (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPDP (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 1.6 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPDP (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.2 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPDP (Drive Writes Per Day for 5 years)
PCIe SSD & SATA DOM SSD	DOM SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 0.13 DWPDP (Drive Writes Per Day for 5 years)
	DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 0.14 DWPDP (Drive Writes Per Day for 5 years)

RAID Controller	Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
	Fujitsu PRAID EP420i for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
	Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA/PCIe-NVMe 12 Gbit/s, 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108
	Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50, No FBU support
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 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)
	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/

Software

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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