FUJITSU

Data Sheet
Fujitsu PRIMERGY TX1320 M2 Server

For small environments with high demands

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
Cost effective performance ■ 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	■ 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
Support for special solutions ■ 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	■ 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 ■ 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	■ 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	
Graphics add on cards	Professional 2D: NVIDIA® NVS™315 LP, PCIe x16, 2 x DVI/VGA	
	Intel® Xeon® processor E3-1280v5 (4C/8T, 3.70 GHz, 2,133 MHz)	
	Intel® Xeon® processor E3-1270v5 (4C/8T, 3.60 GHz, 2,133 MHz)	
	Intel® Xeon® processor E3-1260Lv5 (4C/8T, 2.90 GHz, 2,133 MHz)	
	Intel® Xeon® processor E3-1240v5 (4C/8T, 3.50 GHz, 2,133 MHz)	
	Intel® Xeon® processor E3-1240Lv5 (4C/8T, 2.10 GHz, 2,133 MHz)	
Processor	Intel® Xeon® processor E3-1230v5 (4C/8T, 3.40 GHz, 2,133 MHz)	
	Intel® Xeon® processor E3-1225v5 (4C/4T, 3.30 GHz, 2,133 MHz)	
	Intel® Xeon® processor E3-1220v5 (4C/4T, 3.00 GHz, 2,133 MHz)	
	Intel® Pentium® processor G4400 (2C/2T, 3.30 GHz, 2,133 MHz)	
	Intel® Core™ i3-6100 processor (2C/4T, 3.70 GHz, 2,133 MHz)	
	Intel® Celeron® processor G3900 (2C/2T, 2.80 GHz, 2,133 MHz)	
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 modules notes	2,133 MHz memory modules	
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	Hyper-V Server 2016
	Windows Server 2016 Datacenter
	Windows Server 2016 Standard
	Windows Server 2016 Essentials
	Windows Storage Server 2016 Standard
	Hyper-V Server 2012 R2
	Windows Server 2012 R2 Datacenter
	Windows Server 2012 R2 Standard
	Windows Server 2012 R2 Essentials
	Windows Server 2012 R2 Foundation
	Windows Storage Server 2012 R2 Standard
	Hyper-V Server 2012
	Windows Server 2012 Datacenter
	Windows Server 2012 Standard
	Windows Server 2012 Essentials
	Windows Server 2012 Foundation
	Windows Storage Server 2012 Standard
	Hyper-V™ Server 2008 R2
	Windows Server 2008 R2 Datacenter
	Windows Server 2008 R2 Enterprise
	Windows Server 2008 R2 Standard
	Windows Server 2008 R2 Foundation
	VMware vSphere™ 6.5
	VMware vSphere™ 6.0
	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	
Operating system notes	Support of other Linux derivatives on demand

Server Management

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

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 electronical 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.

Components

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
	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
Hard disk drives	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, 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
Hard disk drives	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
Hard disk drives	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 SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, non hot plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-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, 600 GB, 10,000 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
	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
Solid-State-Drive	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 800 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
Solid-State-Drive	SSD SATA, 6 Gb/s, 120 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 1.6 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.2 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (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 DWPD (Drive Writes Per Day for 5 years)
	DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 0.14 DWPD (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 12 Gbit/s, 8 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, 2 x DVI/VGA

Warranty

Warranty period	1 year
Warranty type	Onsite Service

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 (depending on country) 24x7, 4h Onsite Response Time (depending on country)
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEIA please contact your local Fujitsu partner.
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

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.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

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More information

Learn more about Fujitsu PRIMERGY TX1320 M2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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Fujitsu green policy innovation

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