

Data Sheet

Fujitsu PRIMERGY TX1320 M3 Server

The smallest full-fledged server for growing your business

PRIMERGY TX1320 M3

The FUJITSU Server PRIMERGY TX1320 M3 server is perfect for Small and Medium Enterprises (SME), space constrained environments, retail premises or branch offices which need full server functionality and silent operation. The ultra-compact, performance oriented mono-socket design supports the latest Intel® Xeon® E3-1200 v6 product family plus up to 64GB RAM, to boost performance for standard infrastructure workloads such as file, print, web and collaborative ones such as email, plus business applications. Affordable Intel® Core™ i3, Pentium® and Celeron® processor options are also available. Institutions with legal requirements such as medical, Governmental, legal, or financial offices can benefit from the server's secure, robust storage and transmission features which include up to eight high quality 2.5-inch hard drives, powerful RAID controllers, versatile and affordable backup and networking options plus TPM 2.0 capability. High efficiency (94%) redundant power supplies and the innovative Fujitsu Battery Backup Unit enhance reliability and protect customer investment. This ultra-compact, silent server is designed for deployment flexibility – it can be deployed in offices, on rack shelves and even on desks. The server also features powerful management capabilities with the iRMC S4 and the Fujitsu ServerView suite, allowing it to be easily managed across its entire lifecycle, including deployment, installation and administration.



Features & Benefits

Main Features	Benefits
<p>Ultra-compact server with full featured performance</p> <ul style="list-style-type: none"> ■ Wide choice of the latest Intel® Xeon® E3-1200 v6 product family processors for optimal compute. Affordable Core™ i3, Pentium® and Celeron® options are also available. Up to 64 GB DDR4 ECC memory (4 DIMMs) is supported for high-speed, reliable performance. ■ Enhanced, reliable storage with Brand new design featuring slim HDD frames. The server can support up to 2x 3.5-inch (SATA) or 8x hot-plug 2.5-inch (SAS/SATA) drives plus RDX backup. Powerful SAS 3.0 RAID Controllers with 1/2 GB cache are available (even more advanced units are on the roadmap). ■ Security optimized design with TPM 2.0 support plus Fujitsu's secure 3-way lock for server access. ■ Redundant (2x1GbE) LAN as standard. Higher connectivity options also available. ■ Future ready with 4x PCIe Gen3 slots. <p>Energy efficiency hand in hand with enhanced reliability</p> <ul style="list-style-type: none"> ■ High efficiency 450W power supplies (94% efficiency) are now available with both hot-plug capability and redundancy. ■ Fujitsu Battery Backup Unit, an optional Internal UPS in modular PSU formfactor, 5 years lifetime, fully integrated. <p>The most compact server in its class - deploy anywhere</p> <ul style="list-style-type: none"> ■ Ultra-small form factor improved with the all new design. ■ Low noise emissions by design, with optimized air flow and Fujitsu's Coolsafe® Advanced Thermal Design technology. <p>Full server management features and easy accessibility</p> <ul style="list-style-type: none"> ■ Comprehensive software management suite available with the iRMC S4 and the Fujitsu ServerView Suite. ■ Screw-less chassis with hot-plug 2.5-inch drives, hot-plug power supplies and "Easy Rails" for 3.5-inch storage disks. 	<ul style="list-style-type: none"> ■ Power packed performance for Small and Medium Enterprises, retail premises which have space challenges and need the latest compute and memory technology for their specific requirements. Workloads can span classic infrastructure workloads (file, print, web), collaborative (email), or more demanding industry specific applications. ■ A server which features the right mix of capacity (up to 20TB), and reliable storage with backup capability. Ideal for customers with large dataset requirements, for data consolidation needs or for institutions with legal requirements which need secure, reliable storage. ■ Adds security capabilities to protect your valuable enterprise data from unauthorized access. Additional networking options are available for enhanced business specific needs. ■ Reliable data connectivity out of the box, with advanced options (10GbE) for more demanding requirements already available. ■ The server grows in synch with your business. Upgrade the server with Fujitsu RAID controllers for reliable data storage (high grade SAS 3.0 with up to 1/2 GB cache, more advanced units on the roadmap) or networking cards (including 10GbE options) for seamless data transmission. ■ Good for the environment, and your business – the high efficiency, redundant power supplies offer enhanced reliability and lower energy expenditure. ■ The Battery Backup Unit protects your valuable investment by supporting safe power down and conflict free power up in case of power loss. ■ Fits almost everywhere and saves space - ideal for small offices, at point of sales or even in compact racks or placed on shelves. ■ Silent Operation and expanded range of operation (5 °C to 40 °C). The server can be used in offices, showrooms and even be placed on desks. ■ Reduce your IT administrator's burden by simplifying server management via a comprehensive software suite which can include the iRMC S4 and the Fujitsu ServerView suite, which includes tools for installation and deployment, permanent status monitoring and control. ■ Enhanced serviceability with easy, fast and comfortable access to critical components.

Technical details

PRIMERGY TX1320 M3

Base unit	PRIMERGY TX1320 M3 SFF/Std. PSU	PRIMERGY TX1320 M3 SFF/Red. PSU	PRIMERGY TX1320 M3 LFF/Std. PSU
Housing types	Ultra-compact form-factor	Ultra-compact form-factor	Ultra-compact form-factor
Storage drive architecture	2.5-inch	2.5-inch	3.5-inch

Mainboard

Mainboard type	D3373
Chipset	Intel® C236
Processor quantity and type	1 x Intel® Xeon® processor E3-1200 v6 product family / Intel® Core™ i3 processor / Intel® Pentium® processor

Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3 x miniDP

Graphics

Processor	Intel® Xeon® processor E3-1280v6 (4C/8T, 3.90 GHz, up to 4.0 GHz, 2,400 MHz)
	Intel® Xeon® processor E3-1270v6 (4C/8T, 3.80 GHz, up to 4.0 GHz, 2,400 MHz)
	Intel® Xeon® processor E3-1240v6 (4C/8T, 3.70 GHz, up to 3.9 GHz, 2,400 MHz)
	Intel® Xeon® processor E3-1230v6 (4C/8T, 3.50 GHz, up to 3.7 GHz, 2,400 MHz)
	Intel® Xeon® processor E3-1225v6 (4C/4T, 3.30 GHz, up to 3.5 GHz, 2,400 MHz)
	Intel® Xeon® processor E3-1220v6 (4C/4T, 3.00 GHz, up to 3.3 GHz, 2,400 MHz)
	Intel® Pentium® processor G4560 (2C/4T, 3.50 GHz, 2,400 MHz)
	Intel® Core™ i3-7100 processor (2C/4T, 3.90 GHz, 2,400 MHz)
	Intel® Celeron® processor G3930 (2C/2T, 2.90 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	2,400 MHz memory modules

Interfaces

USB 2.0 ports	5 (4x external rear, 1x internal for UFM, no USB wakeup supported)
USB 3.0 ports	5 (2x external rear, 2x external front, 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

Slots

PCI-Express 3.0 x8	2 x Low profile notched
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. 8x (4x + 4x) 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, additional drive fan if 8x HDD extension is used

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	Windows Server 2019 Datacenter
	Windows Server 2019 Standard
	Windows Server 2019 Essentials
	Windows Server Datacenter, version 1809
	Windows Server Standard, version 1809
	Hyper-V Server 2016
	Windows Server 2016 Datacenter
	Windows Server 2016 Standard
	Windows Server 2016 Essentials
	Windows Storage Server 2016 Standard
	Windows Server Datacenter, version 1709
	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
	VMware vSphere™ 6.7
	VMware vSphere™ 6.5
	VMware vSphere™ 6.0
	SUSE® Linux Enterprise Server 12
	SUSE® Linux Enterprise Server 11
	Red Hat® Enterprise Linux 8
	Red Hat® Enterprise Linux 7

Operating system release link

Operating system notes	Support of other Linux derivatives on demand
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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	1 x standard, 1 x hot-plug, 2 x hot-plug redundant, 1 x hot-plug + 1 x Fujitsu FJBU internal battery backup unit (depending on Model)
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 450W hot-plug, 94% (Platinum 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 Class A
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	Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim, SATA I DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I
Hard disk drives	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, 512e, non hot plug, 3.5-inch, economic HDD SATA, 6 Gb/s, 12 TB, 7,200 rpm, 512e, non hot plug, 3.5-inch, business critical 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, 6 TB, 7,200 rpm, 512e, non hot plug, 3.5-inch, business critical HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, 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, 512n, non hot plug, 3.5-inch, business critical HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical 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, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512n, 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, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, 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, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED
	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
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
Solid-State-Drive	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
	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, 512 GB, hot-plug, 2.5-inch
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.5 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.92 TB, 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)
SCSI / SAS Controller	Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
RAID Controller	Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516
	Fujitsu PRAID EP540i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516
	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 ; 1 Gbit/s PCIe 3.0 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	NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3 x miniDP
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 EMEA 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 M3, 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/products/computing/

Software

www.fujitsu.com/software/

More information

To Learn more about Fujitsu PRIMERGY TX1320 M3, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/global/products/computing/servers/primergy/tower/tx1320m3/

Fujitsu green policy innovation

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