Data Sheet
FUJITSU Server PRIMERGY TX1320 M4 Tower Server

Ultra-compact advanced server to grow your business

Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. FUJITSU Server PRIMERGY systems deliver workload-optimized x86 industry standard servers for any workload and business demand. Since there is no single server solution to meet all these needs, Fujitsu offers a broad server portfolio consisting of expandable tower servers for remote and branch offices, versatile rack-mount servers and density-optimized multi-node servers. Whatever the size of your business – large enterprise with multiple sites, or a small or medium-sized company with limited space and budget – with the right choice of server, your IT can become the business enabler you have always wanted it to be.

PRIMERGY TX1320 M4

The unique ultra-compact FUJITSU Server PRIMERGY TX1320 M4 has advanced technology ideal for most industry verticals, small and medium-sized enterprises (SME), space-constrained environments, retail premises or branch offices. The performance-oriented yet cost-effective mono-socket design supports the latest Intel® Xeon® E-2200/E-2100 product family processors, affordable Intel® Core™ i3 and Pentium® processor options plus up to 128GB RAM at 2,666 MT/s to boost performance for appropriately sized standard business workloads, including virtualized ones (such as: File/Print, Email, ERP/CRM, Messaging, Centralized data storage) and industry specific applications. The new processors with higher core counts, higher speed plus the doubled memory capacity, extend the capability of mono-socket servers to address workloads which hitherto may have required more expensive units. Institutions with special legal requirements such as medical, governmental, legal, or financial offices can benefit from the server's secure and robust storage and transmission features, which include up to eight high quality 2.5-inch storage devices (including up to four ultra-fast NVMe devices for demanding applications), powerful RAID controllers, versatile and affordable backup and networking options together with 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 with the Advanced Thermal Design Technology is designed for deployment flexibility – it can be deployed in offices, on shelves, industrial areas and even on desks at temperatures from 5 °C to 45 °C. New generation technologies include M.2 modules for efficient OS installation along with Dual microSD capability for VMware ESXi, plus the latest USB 3.1 Gen 2 ports. The TX1320 M4 server also features the iRMC S5, Fujitsu ServerView suite, and the free ISM Essential license. These enable easy, effective management across the server's deployment, installation and administration.

Note: Check the product configurator for the server compatible components currently available at launch.

Features & Benefits

Main Features	Benefits
Ultra-compact server with advanced technology to drive workload performance	
■ Wide choice of the Intel® Xeon® E-2200/E-2100 product family processors and affordable Core™ i3, Pentium® and Celeron® options. Up to 128GB DDR4 ECC memory (4 DIMMs at 2,666 MT/s) is supported for high-speed, reliable performance. Note: Celeron® available only via special release request. The server also features 8 x hot-plug 2.5-inch storage (SAS/SATA) devices (including up to 4x NVMe) plus RDX backup. Powerful SAS 3.0 RAID Controllers with up to 8 GB cache are also available. Redundant (2x1GbE) LAN as standard, plus 25/10 Gb Ethernet controller options round out the networking capabilities.	■ With the latest compute and memory technology the server can handle appropriately sized, individual or virtualized standard business workloads (file/ print, web, email, messaging, ERP/CRM), or more demanding industry specific applications. The new Intel® Xeon® E-2200 product range's higher core counts and speeds, plus the doubled memory capacity, extends the growth potential of the mono-socket form factor. The flexible storage lets the server handle low-latency storage applications or offer cost-effective storage with backup capability. With up to 8 storage devices, the server can handle most small office dataset or data consolidation requirements. Dual LAN support offers reliable data connectivity for standard requirements right out of the box, while advanced higher data-rate options can support virtualized environments or centralized data sharing over the network.
Investment protection and flexibility by design	
■ Future ready with 4x PCIe Gen3 slots, while TPM 2.0 support and Fujitsu's secure 3-way lock secure the data. The server 's flexible design also boosts user efficiency: it supports 2x M.2 modules: 1x SATA; 1x NVMe/SATA, plus Dual microSD modules, also offers new 3.1 Gen2 USB ports (Total of 2x 3.1 Gen2 plus 2x 3.1 Gen1, 4x 2.0, Internal 2x 3.1 Gen1 ports).	■ The PCI slots ensure your server grows with your business. You can add advanced Fujitsu RAID controllers for reliable data handling (high grade SAS 3.0 with up to 4/8 GB cache) or networking options (including 10/25Gb Ethernet controllers) for high-speed data transmission. The security features protect valuable enterprise data from unauthorized access - ideal for institutions with legal requirements for high-security data storage. M.2 devices are designed for flexible boot requirements – they offer the option of cost-effective and reliable mirrored SATA modules or deploying high-speed NVMe, while Dual microSD modules offer mirrored support for VMware ESXi. New high data rate USB is suited for the latest generation peripheral devices.
Improved economics with energy efficiency and reliability	
■ High efficiency 450W power supplies (94% efficiency) are available with both hot-plug capability and redundancy. Fujitsu Battery Backup Unit, an optional Internal UPS in modular PSU form-factor, 5 years lifetime, fully integrated.	■ Good for the environment, and your business economics – the high efficiency, redundant power supplies offer enhanced reliability and lower energy expenditure. A cost optimized alternative to power supply redundancy, the Battery Backup Unit protects your valuable investment by supporting safe power down and expanded time of operation in case of power loss.
Deploy anywhere, manage and service easily	
■ The server has an ultra-small form factor with silent operation. It also fields a comprehensive software management suite with the iRMC S5, the Fujitsu ServerView Suite. Plus, the ISM Essential server management suite is available free of charge. The server is designed for enhanced serviceability with easy, fast and comfortable access to critical components.	■ The design fits almost everywhere, saves space - ideal for space constrained environments. Low noise emissions, expanded range of operation (5 °C to 45 °C) with Fujitsu's Cool-safe® Advanced Thermal Design technology make it ideal for offices, showrooms and even industrial environments –without expensive cooling. The iRMC S5, Fujitsu ServerView suite simplify the IT administrator's burden, which enable installation and deployment, permanent status monitoring and control. ISM Essential offers converged infrastructure monitoring, server management free of cost. For easy serviceability, the server has a screw-less chassis with hot-plug 2.5-inch devices, hot-plug power supplies and "Easy Rails" for 3.5-inch disks.

Technical details

PRIMERGY TX1320 M4			
Base unit	PRIMERGY TX1320 M4 SFF/Std. PSU	PRIMERGY TX1320 M4 SFF/Red. PSU	PRIMERGY TX1320 M4 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
Power supply	Standard	Hot-plug	Standard
Product Type	Mono Socket Tower Server	Mono Socket Tower Server	Mono Socket Tower Server

Mainboard	
Mainboard type	D3673
Chipset	Intel® C246
Processor quantity and type	1 x Intel® Xeon® E-2200 processor family / Intel® Xeon® E-2100 processor family / Intel® Core™ i3 processor / Intel® Pentium® processor

Processor	
	Intel® Xeon® processor E-2288G (8C/16T, 3.70 GHz, up to 4.7 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2286G (6C/12T, 4.00 GHz, up to 4.6 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2278G (8C/16T, 3.40 GHz, up to 4.6 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2276G (6C/12T, 3.80 GHz, up to 4.6 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2274G (4C/4T, 4.00 GHz, up to 4.6 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2246G (6C/12T, 3.60 GHz, up to 4.5 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2244G (4C/8T, 3.80 GHz, up to 4.5 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2236 (6C/12T, 3.40 GHz, up to 4.5 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2234 (4C/8T, 3.60 GHz, up to 4.5 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2226G (6C/6T, 3.40 GHz, up to 4.4 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2224G (4C/4T, 3.50 GHz, up to 4.4 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2224 (4C/4T, 3.40 GHz, up to 4.2 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2186G (6C/12T, 3.80 GHz, up to 4.3 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2176G (6C/12T, 3.70 GHz, up to 4.3 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2174G (4C/8T, 3.80 GHz, up to 4.3 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2146G (6C/12T, 3.50 GHz, up to 4.2 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2144G (4C/8T, 3.60 GHz, up to 4.2 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2136 (6C/12T, 3.30 GHz, up to 4.2 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2134 (4C/8T, 3.50 GHz, up to 4.2 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2126G (6C/6T, 3.30 GHz, up to 4.1 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2124G (4C/4T, 3.40 GHz, up to 4.1 GHz, 2,666 MHz)
	Intel® Xeon® processor E-2124 (4C/4T, 3.30 GHz, up to 3.9 GHz, 2,666 MHz)
	Intel® Pentium® processor G5420 (2C/4T, 3.80 GHz, 2,400 MHz)
	Intel® Pentium® processor G5400 (2C/4T, 3.70 GHz, 2,666 MHz)
	Intel® Core™ i3-9100 processor (4C/4T, 3.60 GHz, 2,400 MHz)
	Intel® Core™ i3-8100 processor (4C/4T, 3.60 GHz, 2,400 MHz)
	Intel® Celeron® processor G4930 (2C/2T, 3.20 GHz, 2,400 MHz)
	Intel® Celeron® processor G4900 (2C/2T, 3.10 GHz, 2,400 MHz)
Memory slots	4
Memory slot type	DIMM (DDR4)
Memory capacity (min. - max.)	4 GB - 128 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. 4GB memory available only via special release request

Memory options	4 GB (1 module(s) 4 GB) DDR4, unbuffered, ECC, 2,666 MT/s, PC4-2666, DIMM, 1Rx8		
	8 GB (1 module(s) 8 GB) DDR4, unbuffered, ECC, 2,666 MT/s, PC4-2666, DIMM, 1Rx8		
	16 GB (1 module(s) 16 GB) DDR4, unbuffered, ECC, 2,666 MT/s, PC4-2666, DIMM, 2Rx8		
	32 GB (1 module(s) 32 GB) DDR4, unbuffered, ECC, 2,666 MT/s, PC4-2666, DIMM, 2Rx8		
Memory modules notes	2,666 MHz memory modules		
Interfaces			
USB 2.0 ports	4 (4x external rear)		
USB 3.0 ports	4 (2x internal, 2x external front, USB 3.0 is now known as USB 3.1 Gen 1). **Server also has 2x external rear USB 3.1 Gen 2 ports**		
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 S5 (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® C246, 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 S5) IPMI 2.0 compatible		
Trusted Platform Module (TPM)	TPM 2.0 module (option)		
Slots			
PCI-Express 3.0 x4	1 x Low profile notched		
PCI-Express 3.0 x8	2 x Low profile notched		
PCI-Express x1	1 x Low profile PCI-Express 3.0		
Slot Notes	In SAS configuration 1x PCI-Express occupied by modular RAID controller.		
PCI-Express 3.0 x4	1 x notched	1 x notched	1 x notched
PCI-Express 3.0 x8	2 x notched	2 x notched	2 x notched
Drive bays			
Storage drive bays	3.5-inch non hot-plug or 2.5-inch hot-plug SAS/SATA or 2.5-inch NVMe drives		
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		
Drive bays			
Storage drive bays	Max. 8x (4x + 4x) x 2.5-inch hot-plug	Max. 2 x 3.5-inch non hot-plug SATA	
Accessible drive bays	1 x 3.5/1.6-inch for backup devices 1 x 5.25/0.4-inch for CD-RW/DVD	1 x 3.5/1.6-inch for backup devices 1 x 5.25/0.4-inch for CD-RW/DVD	
Fan Configuration			
Number of fans	3		
Fan notes	Processor fan, rear fan, drive fan, additional drive fan if 8x HDD extension is used		
Number of fans	1		
Fan configuration	1 standard fan		
Fan notes	non redundant / non hot-plug		
Operating panel			
Operating buttons	On/off switch NMI button Reset button		

Operating panel	
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
	VMware vSphere™ 7.0
	VMware vSphere™ 6.7
	VMware vSphere™ 6.5
	SUSE® Linux Enterprise Server 12
	Red Hat® Enterprise Linux 8
	Red Hat® Enterprise Linux 7
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Operating system notes	RHEL 7.5 and SLES 15 GA are not supported for the new CPUs including the Intel® Xeon® E-2200 product family
Server Management	
DC Infrastructure Management	Infrastructure Manager (ISM) Essential Advanced
Server Management	Infrastructure Manager (ISM) Essential Advanced ServerView Suite
Management notes	For further information regarding ISM and ServerView Suite see dedicated data sheets.
Manageability link	http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6
Dimensions / Weight	
Floor-stand (W x D x H)	98 x 399 x 340 mm
Dimension notes	without feet
Weight	up to 10 kg
Environment	
Operating ambient temperature	5 - 45 °C (41 - 113 °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=e4813edf-4a27-461a-8184-983092c12dbe
Sound pressure (LpAm)	SATA: 21 dB(A) idle mode / 21 dB(A) operating mode; SAS: 31 dB(A) idle mode / 34 dB(A) operating mode

Environment	
Sound power (LWAd; 1B = 10dB)	SATA: 3.5 B idle mode / 3.5 B operating mode; SAS: 4.6 B idle mode/ 4.8 B operating mode
Noise notes	Noise emissions depend on operation modes, system configuration and ambient temperature.
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 Fujitsu Product Configurator: www.fujitsu.com/configurator/public
Power supply	250W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz 450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz
Compliance	
Product	PRIMERGY TX1320 M4
Model	PS1320
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 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, 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, 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, 512n, hot-plug, 2.5-inch, enterprise, SED
	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, 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
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, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
	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, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 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, 1.4 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, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, 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, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 480 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 480 GB, non hot plug, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, for VMware
	SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)
	Dual microSD 64GB Enterprise
SCSI / SAS Controller	Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8

RAID Controller	pre-configured RAID6 Array, RAID level: ,
	pre-configured RAID6+HS Array, RAID level: ,
	pre-configured RAID5 Array, RAID level: ,
	pre-configured RAID5+HS Array, RAID level: ,
	pre-configured RAID1 Array, RAID level: ,
	pre-configured RAID1+HS Array, RAID level: ,
	pre-configured RAID1+0 Array, RAID level: ,
	pre-configured RAID1+0+HS Array, RAID level: ,
	pre-configured RAID0 Array, RAID level: ,
	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 EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 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	Converged Network Adapter 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Cavium)
	Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Cavium)
	Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 SFP+ (Cavium)
	Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Cavium)
	Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Mellanox)
	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 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Cavium)
	Ethernet Ctrl. 4 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 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
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 (depending on country) 24x7, 4h Onsite Response Time (depending on country)

Warranty	
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 products, solutions & services

In addition to Fujitsu PRIMERGY TX1320 M4, 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 M4, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://www.fujitsu.com/fts/products/computing/servers/primergy/tower/

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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