Data Sheet
FUJITSU Server PRIMERGY TX1330 M4 Tower Server

Highly expandable advanced server for typical SME business requirements

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 as well as hyper-converged multi-node 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 TX1330 M4

The FUJITSU Server PRIMERGY TX1330 M4 is an advanced technology, highly expandable and robust mono-socket server to meet multiple industry plus classic small and medium-sized enterprise requirements. It features the latest compute and memory for appropriately sized workloads such as file/print, web, ERP/CRM, email, business specific applications plus use cases with high storage requirements such as centralized storage and databases. It features the latest powerful Intel® Xeon® E-2200/E-2100 product family processors with up to 128GB DDR4 memory at 2,666 MT/s, to boost application performance. The new processors with higher core counts, higher speed plus the doubled memory capacity allow customers to handle demanding workloads without moving to more expensive units. The server has high levels of secure expandability with up to 24x 2.5-inch hot-plug storage devices (3.5-inch drive configurations are also available) along with 4x ultra-fast NVMe devices (up to 16x 2.5-inch devices can be fielded alongside), advanced RAID controllers (up to 4/8GB cache) and data back-up options, making it ideal for consolidating and managing large datasets. Up to 4 PCIe slots are available to add RAID cards, networking options (such as 10/25 Gb controllers). High availability features such as the optional Fujitsu Battery Backup Unit, high-efficiency (94%), redundant power supplies or redundant fans ease operator concerns and provide investment protection. The aesthetic design makes it suitable for deployment in public areas such as showrooms, retail premises or offices. New generation technologies include M.2 modules for efficient OS installation along with Dual microSD capability for VMware ESXi, plus USB 3.1 Gen 2 ports. Furthermore, advanced server management is available via iRMC S5, the Fujitsu ServerView® Suite, and a free ISM Essential license. These provide administrators with comprehensive support across server installation, deployment and administration.

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





Features & Benefits

Main Features	Benefits
Advanced technology for workload-versatile performance	
■ Wide range of compute/memory with the combination of the latest Intel® Xeon® E-2200/2100 processors, and up to 128GB DDR4 memory (4 DIMMs) at 2,666 MT/s. Affordable Core™ i3 and Pentium® processors are also available. High storage and networking expandability with the server supporting up to 4x NVMe devices plus either 8x3.5-inch storage devices or 16x2.5-inch devices. Maximal capacity with standard drives is up to 12x3.5-inch devices, or up to 24x2.5-inch devices. It also supports Fujitsu's powerful RAID controllers (including SAS 3.0, 4/8 GB cache). Backup options include LTO and RDX. Security optimization includes TPM 2.0 support plus Fujitsu's secure 3-way lock for server access. Server also features redundant (2x1GbE) LAN as standard plus advanced networking options (10/25Gb Ethernet, Fiber Channel controllers).	■ The server compute and memory can be optimized for most appropriately sized standard workloads across industries with the Intel® Xeon® E-2200 processors offering the highest performance in the toolbox. The workloads can range from appropriately sized, individual to virtualized multi-app environments including workloads such as file/print, email, ERP/CRM, messaging, centralized data storage and industry specific applications. The new higher core count, faster processors and doubled memory capacity make these servers suitable for more powerful applications than their previous generation. In terms of storage and networking, NVMe drives offer ultra-fast storage for low-latency applications, while the server's huge storage capacity offers secure, cost-effective capability to consolidate and manage large datasets, combined with growth potential. Redundant LAN offers reliable data connectivity out of the box. Advanced options such as 10/25 GbE or Fiber Channel networking cards offer high data transfer for demanding environments, e.g. virtualized environments or centralized storage.
Future ready plus capabilities for enhanced utilization	
■ 4x PCIe Gen3 slots for expansion and deployment flexibility via rack upgrade capability. Support of 2x M.2 modules: 1x SATA; 1x NVMe/SATA and Dual micro-SD modules for efficient boot requirements. New 3.1 Gen2 USB ports (2x 3.1 Gen2 plus 2x 3.1 Gen1, 4x 2.0, Internal 2x 3.1 Gen1) for enhanced connectivity.	■ PCI expansion slots permit timely, cost-effective upgrades in line with your business growth. Upgrade the server with a graphics card, or Fujitsu RAID controllers for reliable data storage or advanced networking options for seamless data transmission. Similarly, a rack kit provides investment protection; as their business grows, customers can deploy multiple PRIMERGY TX1330 M4 servers in a rack. For effective boot options choose from amongst cost-effective and reliable mirrored SATA modules or deploy high-speed NVMe devices, while Dual microSD modules support mirrored VMware ESXi boot. Technology update with new high data rate USB is good for latest generation peripheral devices.
Designed for expanding usage scenarios and efficiency	
■ 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. Furthermore, Optimized air flow and Fujitsu's Cool-safe ® Advanced Thermal Design technology offer expanded deployment capability.	■ 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 expanded server operation time in case of power loss. The air flow and Cool-safe ® Advanced Thermal Design technology allow for an expanded range of operation (5 °C to 45 °C) and also reduce noise emissions, making the server suitable for deployment in public areas.
Full server management features and easy serviceability	
■ Comprehensive software management suite and easy to service design to reduce your IT administrator's burden plus serviceability features are part of the design.	■ Reduce your IT administrator's burden by simplifying server management via a comprehensive software suite which can include the iRMC S5 and the Fujitsu ServerView suite, which includes tools for installation and deployment, permanent status monitoring and control. The new ISM Essential offers converged infrastructure monitoring and server management free of cost. Enhanced serviceability allows easy, fast and comfortable access to critical components.

Technical details

PRIMERGY TX1330 M4			
Base unit	PRIMERGY TX1330 M4	PRIMERGY TX1330 M4	PRIMERGY TX1330 M4
Housing types	Tower	Tower	Rack
Power supply	Standard	Hot-plug	Hot-plug
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® Pentium® processor / Intel® Core™ i3 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)
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.

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

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 connection	1 x 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, 512 MB attached memory incl. graphics controller) IPMI 2.0 compatible		
Trusted Platform Module (TPM)	TPM 2.0 module (option)		
Slots			
PCI-Express 3.0 x1 (mech. x4)	1 x Full height, up to 168 mm length		
PCI-Express 3.0 x4	1 x Full height, up to 168 mm length		
PCI-Express 3.0 x8	2 x Full height, up to 240 mm length notched		
Slot Notes	Optional PCIe to legacy PCI adapter available. 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 or 2.5-inch hot-plug SAS/SATA		
Accessible drive bays	3 x 5.25/1.6-inch		
Notes accessible drives	all possible options described in relevant system configurator		
Drive bays			
Storage drive bays	Max. 4x 3.5-inch or 8x 2.5-inch	Max. 12x 3.5-inch or 24x 2.5-inch	
Accessible drive bays	3 x 5.25/1.6-inch for 1 x backup drive + 1 x ODD	Accessible drive bays are not available in case of max. storage drive configuration	
Fan Configuration			
Number of fans	1	2	
Fan configuration	1 standard fan	redundant fans	
Fan notes	non redundant / non hot-plug	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)
BIOS	
BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Linux versions Local and remote update via ServerView Update Manager Remote PXE boot support Remote iSCSI boot support
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™ 6.7
	VMware vSphere™ 6.5
	SUSE® Linux Enterprise Server 12
	Red Hat® Enterprise Linux 8
	Red Hat® Enterprise Linux 7
	Univention Corporate Server 4
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 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)	177 x 560 x 455 mm
Rack (W x D x H)	483 x 495 x 175 mm

Dimensions / Weight	
Dimension notes	Floorstand Width 306 mm with tilt protection; depth measured excludes handles on redundant PSU. Rack depth excludes handles of redundant PSU and rack front.
Mounting Depth Rack	543 mm
Height Unit Rack	4 U
Weight	Rack: 13 kg - 25 kg; Tower: 15kg - 28 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit can be ordered as option
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: 23 dB(A) idle mode/ 23 dB(A) operation mode; SAS: 33 dB(A) idle mode/ 37 dB(A) operation mode
Sound power (LWAd; 1B = 10dB)	SATA: 4.1 B idle mode/ 4.1 B operation mode ; SAS: 4.8 B idle mode/ 5.2 B operation 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)
Hot-plug power supply redundancy	Optional
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	300W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz 450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz
Power supply notes	Power Safeguard adapts system performance in case the power requirements exceeds supply limits.
Battery backup	Fujitsu Battery Unit 380W, 12V (as option)
Compliance	
Product	PRIMERGY TX1330 M4
Model	PS170
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	
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	LTO6HH Ultrium, 2,500 GB, 160 MB/s, half height, SAS 6Gb/s
	LTO7HH Ultrium, 2,500 GB, 300 MB/s, half height, SAS 6Gb/s
	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-ROM, (16xDVD; 48xCD), half height, SATA I
	DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, 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, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, 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, 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, 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, hot-plug, 3.5-inch, enterprise
	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, hot-plug, 3.5-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, 3.5-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, 300 GB, 15,000 rpm, hot-plug, 3.5-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, 3.5-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, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 3.5-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, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 3.5-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, 512n, hot-plug, 3.5-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, hot-plug, 3.5-inch, business critical

Solid-State-Drive	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
	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, 3.5-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, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-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, 3.5-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, 3.6 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.4 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, 3.5-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, 3.6 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.5 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, 3.5-inch, enterprise, 1.0 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, 3.5-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, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 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, 3.5-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, 3 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, 1.4 DWPD (Drive Writes Per Day for 5 years)
PCIe SSD & SATA DOM SSD	PCIe-SSD SFF, 500 GB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 0.7 DWPD (Drive Writes Per Day for 5 years)
	PCIe-SSD SFF, 4 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 0.6 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	Fujitsu PRAID EP580i FH, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 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 FH, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 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 FH, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 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
Fibre Channel controller	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Cavium QLE2740 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPe32000-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2690 LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2692 LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe31000-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe31002-M6-F MMF LC-style

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 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 SFP+ (Cavium)
	Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ (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
Rack infrastructure	Rack Mount Kit
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks
	Cable Arm 2U for PRIMECENTER- and 3rd-party racks

Warranty	
Warranty period	1 year
Warranty type	Onsite warranty
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)
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEIA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services

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