

Data Sheet

FUJITSU Server PRIMERGY TX2550 M5 Tower Server

Tower powerhouse with the richest feature set

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 TX2550 M5

The FUJITSU Server PRIMERGY TX2550 M5 is a sophisticated dual socket tower server enhanced with the latest technology to deliver the highest levels of workload versatile performance, expandability and cost-effectiveness. This office ready, powerful system comes with the latest Intel® Xeon® Processor Scalable Family CPUs with 24 cores, along with up to 1.5TB of high-speed 2,933 MT/s DDR4 and Intel® Optane™ DC persistent memory technology making this powerful system ideal for most CPU/memory driven requirements

such as demanding business applications (industry specific, analytics apps), business processing (ERP, CRM) and virtualized workloads. The server is designed for huge expandability with up to 32 hard drives, NVMe options, advanced RAID and a range of high-throughput networking cards including DynamicLOM options, making it highly suitable for storage centric requirements such as collaboration/IT infrastructure workloads and even high-data transfer web or big-data configurations. Up to 8 expansion slots are available for future growth. A high-end Graphics card boosts performance for VDI, CAD, web requirements. The server is designed for silent operation, ideal for offices. The server also delivers world-class reliability and energy efficiency with up to 96% efficient, dual power supplies. Operation in higher ambient temperatures is ensured by the Cool-safe® Advanced Thermal Design, avoiding the need for expenditure on special cooling. Furthermore, the server supports the Fujitsu iRMC S5, to enhance admin productivity and ease server usage across the entire lifecycle.



Features & Benefits

Main Features	Benefits
<p>Power packed performance across workloads</p> <ul style="list-style-type: none"> Intel® Xeon® Processor Scalable family CPUs with up to 24 cores (code named "Cascade Lake") relying on Intel® UltraPath Interconnect for an increased data rate between the CPUs. Up to 1.5TB memory (12 DIMM slots) including a mix of DDR4 @ 2,933 MT/s and Intel® Optane™ DC persistent memory. 	<ul style="list-style-type: none"> Enhanced Dual-socket compute plus high bandwidth DDR4 and Intel® Optane™ DC persistent memory - optimal for demanding enterprise and SME requirements. Intel® Optane™ DC persistent memory is an innovative memory technology which delivers a unique combination of affordable large capacity and non-volatile persistence. It revolutionizes the data center memory-storage hierarchy of the past and brings massive data sets closer to the CPU for faster time to insight. As such, the TX2550 M5 is capable of handling a range of diverse tasks: Demanding Industry and Analytics apps, Business processing and enterprise applications as well as virtualized workloads.
<p>Highly expandable and flexible storage</p> <ul style="list-style-type: none"> Up to 32x hot plug 2.5" HDD/SSD including up to 4x NVMe PCIe SSD, or up to 12x hot plug 3.5" HDD/SSD + 2x non-hp 2.5" HDD/SSD and up to 3x 1.6" drive bays for ODD or backup. Advanced RAID controllers (RAID 0,1,1E,10,5,50,6,60) with up to 8GB cache for enhanced data protection and reliability beyond embedded basic RAID capability. 	<ul style="list-style-type: none"> Ideal for securely managing extremely large datasets and flexible enough to be matched to a range of storage centric requirements such as IT infrastructure, database or collaboration workloads. Drives and RAID controllers can be tailored to specific business needs and budgets.
<p>Powerful and cost-effective networking configurations</p> <ul style="list-style-type: none"> Onboard LAN for basic requirements, DynamicLoM via OCP for extended requirements. Range of additional high throughput networking cards (100/40/25/10Gb) also available. 	<ul style="list-style-type: none"> Range of Ethernet configurations depending on your business need and budget. Combination of Basic capabilities via onboard LAN, plus higher performance, optional DynamicLoM via OCP offers excellent flexibility and cost effective growth capability. High throughput cards enable growth for the highest data rate requirements.
<p>Designed to keep pace with your business</p> <ul style="list-style-type: none"> 8 Expansion slots (in maximal optional configuration; 7x PCIe and 1xPCI-32). Rack Form factor available from the factory and as an upgrade option. 	<ul style="list-style-type: none"> Versatile PCIe slots offer flexible expandability for the integration of existing and new storage controllers, networking cards, Graphics capability. Add capabilities per your business needs. Rack upgrade kit allows you to invest in a system designed for scalability to match your business growth.
<p>Versatile Graphics support</p> <ul style="list-style-type: none"> Up to 1x GFX card support (FPGA also on roadmap). 	<ul style="list-style-type: none"> Improve capability for Graphics intensive apps; get more from your display infrastructure.
<p>Go green, with cost savings and reliability improvements</p> <ul style="list-style-type: none"> Power supply units with 96% energy efficiency, plus Fujitsu's Cool-safe® Advanced Thermal Design for higher ambient temperatures in the data center. 	<ul style="list-style-type: none"> High efficiency redundant power supplies deliver energy cost savings and enhanced reliability, while the Cool-safe® Advanced Thermal Design allows you to operate your equipment without having to invest in expensive cooling equipment.
<p>Secure, Efficient Administration across the server lifecycle</p> <ul style="list-style-type: none"> Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control, The server also has regular, free updates of BIOS, firmware and selected software. The onboard iRMC S5 comes with interactive web UI and conforms to Redfish providing unified API support for heterogeneous environment. Furthermore, 2x Internal M.2 devices support hypervisor installations or mirroring while TPM2.0 modules enhance security. 	<ul style="list-style-type: none"> ServerView enables ease of administration: IT Staff can focus on high-value tasks and business requirements versus transactional tasks. With BIOS upgrades, your server remains up-to-date consistently, without extra expenses, great for your budget and IT admin productivity. The onboard iRMC S5, is optimized for both: data centers and SMEs can rely on the latest generation server management by Fujitsu. M.2 devices are perfect for hassle-free hypervisor /operating system start-up, while TPM 2.0 provides ease of mind for administrators with the latest hardware and Software driven security features to address emerging threats and cybercrime challenges.

Technical details

PRIMERGY TX2550 M5

Base unit	TX2550 M5 Tower LFF	TX2550 M5 Tower LFF	TX2550 M5 Tower SFF	TX2550 M5 Tower SFF	TX2550 M5 Tower SFF	TX2550 M5 Tower SFF
Housing types	Tower	Tower	Tower	Tower	Tower	Tower
Storage drive architecture	4x 3.5-inch SAS/SATA expandable	8x 3.5-inch SAS/SATA expandable	8x 2.5-inch SAS/SATA/PCIe	16x 2.5-inch SAS/SATA/PCIe	8x 2.5-inch SAS/SATA/PCIe expandable	24x 2.5-inch SAS/SATA/PCIe expandable
Power supply	Hot-plug	Hot-plug	Hot-plug	Hot-plug	Hot-plug	Hot-plug
Product Type	Dual Socket Tower Server	Dual Socket Tower Server	Dual Socket Tower Server	Dual Socket Tower Server	Dual Socket Tower Server	Dual Socket Tower Server

Mainboard

Mainboard type	D3386-B
Chipset	Intel® C624
Processor quantity and type	1 - 2 x Intel® Xeon® Processor Scalable Family
Memory slots	12 (6 DIMMs per CPU, 6 channels with one DIMM per channel)
Memory slot type	DIMM (DDR4 / DDR-T for non-volatile memory modules)
Memory capacity (min. - max.)	8 GB - 1.5 TB
Memory protection	Advanced ECC SDDC
Memory notes	Possibility to populate 2 slots with DCPMM modules per CPU, please see relevant system configurator for details Memory Mirroring Mode with identical modules in both channel pairs of a bank (4 or 6 modules per bank) per CPU.

Interfaces

USB 2.0 ports	1 x USB 2.0 internal for backup devices
USB 3.0 ports	7 x USB 3.0 (2x front, 4 x rear, 1x internal (type A))
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x optional serial RS-232-C (9 pin)
LAN / Ethernet (RJ-45)	2 x RJ45 (additional 2x RJ45 are optional available)
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 LAN port

Onboard or integrated Controller

RAID controller	All hardware storage controller options are described under Components
SATA Controller	Intel® C624, 9-port SATA (8 x for internal hard disks, 1 x for accessible drives)
SATA controller type notes	On board SATA controller supports RAID levels 0, 1, 10
LAN Controller	2 x 1 Gbit/s onboard Optional 2x 10Gb T or 2x 10Gb SFP+ interface card onboard with OCP carrier card (OCP carrier card blocks PCIe slot 8).
Remote management controller	IPMI 2.0 compatible Integrated Remote Management Controller (iRMC S5, 512 MB attached memory incl. graphics controller)
Trusted Platform Module (TPM)	optional TPM

Slots

PCI-Express 3.0 x8	5 x Full height Note: 2 of the slots become available via optional riser card. Refer to configurator for details
PCI-Express 3.0 x16	3 x Full height Note: One x16 PCIe slot is available with the first CPU, can be occupied by the optional Riser card. Second CPU adds two more x16 PCIe slots. Refer to configurator for details.
PCI-slots	1 x PCI 32Bit, available via optional riser card. Refer to configurator for details
Slot Notes	in SAS configuration 1x PCI-Express occupied by modular RAID controller

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 (Base unit specific)						
Storage drive bays	4 x 3.5-inch hot-plug SAS/SATA	8 x 3.5-inch hot-plug SAS/SATA	8 x 2.5-inch hot-plug SAS/SATA	16 x 2.5-inch hot-plug SAS/SATA	8 x 2.5-inch hot-plug SAS/SATA	24 x 2.5-inch hot-plug SAS/SATA
Storage drive bay configuration	optional expandable up to 8 storage drives	optional expandable up to 12 storage drives	not expandable	not expandable	optional expandable up to 24 storage drives	optional expandable up to 32 storage drives
Optional accessible drives	3x 1.6x5.25" bays for an optical and/or backup drives	3x 1.6x5.25" bays for an optical and/or backup drives	3x 1.6x5.25" bays for an optical and/or backup drives	3x 1.6x5.25" bays for an optical and/or backup drives	3x 1.6x5.25" bays for an optical and/or backup drives	3x 1.6x5.25" bays for an optical and/or backup drives
Fan Configuration						
Number of fans	3					
Fan configuration	3x120mm high power fans (optional non-hot plug redundant or single hot plug red.)					
Fan notes	Fans with optimized blades and fan control for silent and safe operation					
Operating panel						
Operating buttons	On/off switch NMI button Reset button					
Status LEDs	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) CPU status Fan status Hard disk error Temperature CSS (yellow) Memory status PSU status (green/ amber) At system rear side: System status (orange / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)					
Service display	Optional: ServerView Local Service Display (LSD)					
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 SMBIOS V2.4 Remote PXE boot support					
Operating Systems and Virtualization Software						
Operating system notes						
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473					

Server Management

Standard	<p>Infrastructure Manager (ISM) Essential</p> <ul style="list-style-type: none"> Node Management Health status Monitoring and Control Capacity/Threshold Management Power Management Converged Management Auto Discovery Remote Management Update Management Logging and Auditing <p>ServerView Suite - Deploy</p> <ul style="list-style-type: none"> ServerView Installation Manager ServerView Scripting Toolkit <p>ServerView Suite - Control</p> <ul style="list-style-type: none"> ServerView Operations Manager incl. PDA and ASR & R ServerView Agents and CIM Providers ServerView Agentless Management ServerView System Monitor SVOM - Event Manager ServerView RAID Manager SVOM - Threshold Manager Power Monitor (monitoring the Power Consumption) Power Management (iRMC) Storage Management (server) with SVOM/SV-RAID <p>ServerView Suite (Maintain)</p> <ul style="list-style-type: none"> iRMC S5 (Remote Management) System Update Manager (BIOS, Firmware, Windows Drives and SV Agents) Performance management (SVOM) Asset Management Primecollect Customer Self Service Online Diagnostics <p>ServerView Suite - Integrate</p> <ul style="list-style-type: none"> Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM
Option	<p>ServerView Suite (Maintain)</p> <ul style="list-style-type: none"> ServerView eLCM iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media <p>Infrastructure Manager (ISM)</p> <ul style="list-style-type: none"> Automate device configuration Mass OS installation Node Management Health status Monitoring and Control Capacity/Threshold Management Power Management Converged Management Auto Discovery Virtual-IO Management Network topology Management Remote Management Update Management Logging and Auditing Integrate in to <ul style="list-style-type: none"> Enterprise Management Vendor specific Management Monitor 3rd party platforms
Server Management notes	Regarding dependencies for ServerView Suite software products see dedicated product data sheets.
Dimensions / Weight	
Floor-stand (W x D x H)	177 x 777 x 456 mm
Rack (W x D x H)	483 (Bezel); 448 mm (body) x 736 x 177 mm
Dimension notes	Floorstand Width 177 mm without tilt protection (420 mm with tilt protection); depth measured includes handles on redundant PSU. Rack depth includes handles of redundant PSU, excludes rack handles / front

Dimensions / Weight

Height Unit Rack	4 U
Weight	Up to 35.5 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack mount options available from the factory or with retrofit upgrade.

Floor-stand (W x D x H)

Rack integration kit	Rack mount option available as a retrofit upgrade	Rack mount options available from the factory or with retrofit upgrade	Rack mount option available as a retrofit upgrade	Rack mount options available from the factory or with retrofit upgrade	Rack mount options available from the factory or with retrofit upgrade	Rack mount options available from the factory or with retrofit upgrade
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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
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	Noise minimum configuration: 24 dB(A) (idle) / 32 dB(A) (operating) Noise typical configuration: 24 dB(A) (idle) / 32 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	Noise minimum configuration: 4.2 B (idle) / 5.0 B (operating) Noise typical configuration: 4.2 B (idle) / 5.0 B (operating)
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature. Operating mode measured based on OLTIS with 50% load. *OLTIS = FUJITSU Load Profile which stresses all components of a server with a given load level.

Electrical values

Power supply configuration	1x non hot-plug power supply or 2x hot-plug power supply for redundancy
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	748 W
Apparent power (max. configuration)	752 VA
Heat emission (max. configuration)	2692.8 kJ/h (2552.3 BTU/h)
Rated current max.	9 A (100 V) / 3.5 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	450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 800W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 800W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 1200W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz; 110V range: 1000W, less than 110V: 900W
Power supply notes	Power Safeguard adapts system performance in case the power requirements exceeds supply limits. 96% Titanium Power supply unit is only released for 200-240V

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/cus FCC Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
South Korea	KN32 KN35
China	CCC
Australia/New Zealand	C-Tick

Compliance	
Taiwan	BSMI
Compliance link	https://sp.ts.fujitsu.com/sites/certificates
Compliance notes	<p>There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.</p> <p>* 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.</p>

Components

Warranty	
Warranty period	3 years
Warranty type	Onsite warranty Warranty conditions tbd
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM
Product Support Services - the perfect extension	
Support Pack Options	<p>Globally available in major business areas:</p> <p>9x5, Next Business Day Onsite Response Time</p> <p>9x5, 4h Onsite Response Time (depending on country)</p> <p>24x7, 4h Onsite Response Time (depending on country)</p>
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 Server PRIMERGY TX2550 M5, 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 TX2550 M5, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

<http://www.fujitsu.com/global/products/computing/servers/primergy/tower/tx2550m5/index.html>

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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