Data Sheet
Fujitsu PRIMERGY TX2550 M5 Tower Server

Tower powerhouse with the richest feature set

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 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 26 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 comes with Fujitsu iRMC S5 and ISM Essential, which respectively, enhance admin productivity and provide a quick path to infrastructure management.
Features & Benefits

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Power packed performance across workloads</td>
<td>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.</td>
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<td>Wide choice of different types of Intel® Xeon® Scalable processors including 2nd generation Intel® Xeon® Scalable processors. The server can field CPUs with up to 26 cores 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.</td>
<td>Highly expandable and flexible design</td>
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<td>Highly expandable and flexible design</td>
<td>Storage suitable for securely managing extremely large datasets and flexible enough to be matched to a range of storage centric requirements such as IT infrastructure or collaboration workloads. Drives and RAID controllers can be tailored to specific business needs and budgets. Powerful and cost-effective networking options are available 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.</td>
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<td>Significant storage capacity with up to 32x hot plug 2.5&quot;HDD/SSD including up to 8x PCIe SSD, or up to 12x hot plug 3.5&quot;HDD/SSD + 2x non-hp 2.5&quot;HDD/SSD and up to 3x 1.6&quot; 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. Flexibility in networking capability via Onboard LAN for basic requirements, DynamicLoM via OCP for extended requirements. Range of additional high throughput networking cards (100/40/25/10Gb) also available.</td>
<td>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. Graphics card improves performance for Graphics intensive apps; get more from your display infrastructure. 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.</td>
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<td>Designed to be upgrade ready and efficient</td>
<td>The onboard iRMC S5, is optimized for both data centers and SMEs who can rely on the latest generation server management. 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. ISM helps improve data center productivity with converged infrastructure management. Converged data center management provides organizations centralized control over the entire infrastructure that includes servers, storage, networking, cloud management software as well as power and cooling using a single user interface.</td>
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<td>8 Expansion slots (in maximal optional configuration; 7x PCIe and 1xPCI-32)</td>
<td>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. The new, free, ISM Essential license provides a quick start to infrastructure management with essential monitoring and update functions, while ISM Advanced is the fully featured licensed version of ISM that provides comprehensive infrastructure management capabilities.</td>
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<td>Fields power supply units with 96% energy efficiency, plus Fujitsu's Cool-safe® Advanced Thermal Design for higher ambient temperatures in the data center.</td>
<td>Server and infrastructure management at your fingertips</td>
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<td>Rack Form factor available from the factory and as an upgrade option. Up to 1x GFX card support (FPGA also on roadmap).</td>
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Technical details

PRIMERGY TX2550 M5

Mainboard
Mainboard type D3386-B
Chipset Intel® C624
Processor quantity and type 1 - 2 x Intel® Xeon® Bronze 3xxx processor / Intel® Xeon® Silver 4xxx processor / Intel® Xeon® Gold 5xxx processor / Intel® Xeon® Gold 6xxx processor
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
Memory notes Possibility to populate 2 slots with DCPMM modules per CPU, please see relevant system configurator for details

Interfaces
USB 2.x ports 1 x USB 2.0 internal for backup devices
USB 3.x 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.

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
### Operating panel

<table>
<thead>
<tr>
<th>Status LEDs</th>
<th>Operating panel details</th>
</tr>
</thead>
<tbody>
<tr>
<td>System status (orange / yellow)</td>
<td>System status (orange / yellow)</td>
</tr>
<tr>
<td>Identification (blue)</td>
<td>Identification (blue)</td>
</tr>
<tr>
<td>Hard disks access (green)</td>
<td>Hard disks access (green)</td>
</tr>
<tr>
<td>Power (amber / green)</td>
<td>Power (amber / green)</td>
</tr>
<tr>
<td>CPU status</td>
<td>CPU status</td>
</tr>
<tr>
<td>Fan status</td>
<td>Fan status</td>
</tr>
<tr>
<td>Hard disk error</td>
<td>Hard disk error</td>
</tr>
<tr>
<td>Temperature</td>
<td>Temperature</td>
</tr>
<tr>
<td>CSS (yellow)</td>
<td>CSS (yellow)</td>
</tr>
<tr>
<td>Memory status</td>
<td>Memory status</td>
</tr>
<tr>
<td>PSU status (green/ amber)</td>
<td>PSU status (green/ amber)</td>
</tr>
</tbody>
</table>

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 release link**

**Operating system notes**
Use of certified or supported operating systems and virtualization software is subject to proactive acceptance of the respective License Agreements/ EULAs/ Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.

### Server Management

**DC Infrastructure Management**
- Infrastructure Manager (ISM)
  - Essential Edition
  - Advanced Edition

**Server Management**
- Infrastructure Manager (ISM)
  - Essential Edition
  - Advanced Edition
  - 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

<table>
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<th>Dimensions</th>
<th>Measurements</th>
</tr>
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<tbody>
<tr>
<td>Floor-stand (W x D x H)</td>
<td>177 x 777 x 456 mm</td>
</tr>
<tr>
<td>Rack (W x D x H)</td>
<td>483 (Bezel): 448 mm (body) x 736 x 177 mm</td>
</tr>
<tr>
<td>Height Unit Rack</td>
<td>4 U</td>
</tr>
<tr>
<td>Weight</td>
<td>Up to 35.5 kg</td>
</tr>
<tr>
<td>Dimension notes</td>
<td>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</td>
</tr>
<tr>
<td>Weight notes</td>
<td>Actual weight may vary depending on configuration</td>
</tr>
<tr>
<td>Rack integration kit</td>
<td>Rack mount options available from the factory or with retrofit upgrade.</td>
</tr>
</tbody>
</table>

### Environment

<table>
<thead>
<tr>
<th>Environment details</th>
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<tbody>
<tr>
<td>Operating ambient temperature</td>
</tr>
</tbody>
</table>
## Environment

**Operating temperature note**
Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. Please use the Fujitsu WebArchitect (www.fujitsu.com/configurator/public) to get detailed information on the corresponding configurations.

**Operating relative humidity**
10 - 85 % (non condensing)

**Operating environment link**

**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 Fujitsu Product Configurator: www.fujitsu.com/configurator/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

**Product**
PRIMERGY TX2550 M5

**Model**
PS2560

**Global**
- CB
- RoHS (Substance limitations in accordance with global RoHS regulations)
- WEEE (Waste electrical and electronical equipment)

**Germany**
- GS

**Europe**
- CE

**USA/Canada**
- CSAc/us
- FCC Class A

**Japan**
- VCCI/V3 Class A + JIS 61000-3-2

**South Korea**
- KN32
- KN35

**China**
- CCC

**Australia/New Zealand**
- C-Tick

**Taiwan**
- BSMI

**Compliance link**
https://sp.ts.fujitsu.com/sites/certificates

**Compliance notes**
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.

* 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

### Notes

<table>
<thead>
<tr>
<th>Compatibility</th>
<th>If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuity management</td>
<td>The product may in connection with and depending on the specific configuration include elements to support time- and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance.</td>
</tr>
<tr>
<td>Security</td>
<td>The properties of the product provide a baseline for product security and therefore end-customer IT security. However, these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.</td>
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</table>

### Warranty

| Manufacturer warranty period | 3 years |
| Warranty type | Onsite warranty |
| Warranty Terms & Conditions | tbd |
| Product Support - the perfect extension | http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM |

### Support Pack Options

| Globally available in major metropolitan 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 Service with 4h Onsite Response Time |

### Service Lifecycle

| at least 5 years after shipment, for details see https://support.ts.fujitsu.com/ |

### Service Weblink

More information

Fujitsu products, solutions & services
In addition to Fujitsu 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.

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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Disclaimer
Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.
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