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

### Main Features

- **Power packed performance across workloads**
  - 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.

- **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.

- **Highly expandable and flexible design**
  - Significant storage capacity with up to 32x hot plug 2.5"HDD/SSD including up to 8x 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. 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.

- **Designed to be upgrade ready and efficient**
  - 8 Expansion slots (in maximal optional configuration; 7x PCIe and 1xPCI-32). Rack Form factor available from the factory and as an upgrade option. Up to 1x GFX card support (FPGA also on roadmap). Fields power supply units with 96% energy efficiency, plus Fujitsu’s Cool-safe® Advanced Thermal Design for higher ambient temperatures in the data center.

- **Server and infrastructure management at your fingertips**
  - 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.

- **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.

- **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.

### Benefits

- 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.

- 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.

- 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.

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## Technical details

### PRIMERGY TX2550 M5

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<th>Base unit</th>
<th>TX2550 M5 Tower LFF</th>
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<th>TX2550 M5 Tower SFF</th>
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<tr>
<td>Housing types</td>
<td>Tower</td>
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<tr>
<td>Storage drive architecture</td>
<td>4x 3.5-inch SAS/ SATA expandable</td>
<td>8x 3.5-inch SAS/ SATA expandable</td>
<td>8x 2.5-inch SAS/ SATA/PCIe</td>
<td>16x 2.5-inch SAS/ SATA/PCIe</td>
<td>8x 2.5-inch SAS/ SATA/PCIe</td>
<td>24x 2.5-inch SAS/ SATA/PCIe</td>
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<tr>
<td>Power supply</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
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<tr>
<td>Product Type</td>
<td>Dual Socket Tower Server</td>
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### 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 SDDC
- **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)

### 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 (iRM C 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)

<table>
<thead>
<tr>
<th>Storage drive bays</th>
<th>4 x 3.5-inch hot-plug SAS/SATA</th>
<th>8 x 3.5-inch hot-plug SAS/SATA</th>
<th>8 x 2.5-inch hot-plug SAS/SATA</th>
<th>16 x 2.5-inch hot-plug SAS/SATA</th>
<th>8 x 2.5-inch hot-plug SAS/SATA</th>
<th>24 x 2.5-inch hot-plug SAS/SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage drive bay configuration</td>
<td>optional expandable up to 8 storage drives</td>
<td>optional expandable up to 12 storage drives</td>
<td>not expandable</td>
<td>not expandable</td>
<td>optional expandable up to 24 storage drives</td>
<td>optional expandable up to 32 storage drives</td>
</tr>
<tr>
<td>Optional accessible drives</td>
<td>3x 1.6x5.25&quot; bays for an optical and/or backup drives</td>
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</tbody>
</table>

### 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**: 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) Essentials Edition
- Advanced Edition

**Server Management**
- Infrastructure Manager (ISM) Essentials Edition
- Advanced Edition
- ServerView Suite

**Management notes**: For further information regarding ISM and ServerView Suite see dedicated data sheets.
Server Management

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 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

Height Unit Rack 4 U
Weight Up to 35.5 kg
Weight notes Actual weight may vary depending on configuration

Floor-stand (W x D x H)

Rack mount option available as a retrofit upgrade
Rack mount options available from the factory or with retrofit upgrade

Rack integration kit Rack mount options available from the factory or with retrofit upgrade.

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. 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 FTS 04230 – Guideline for Data Center (installation specification)
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
### Compliance

#### 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](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
More information

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/

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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