Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. Fujitsu PRIMERGY servers deliver workload-optimized x86 industry standard systems 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, versatile rack-mount servers, density-optimized multi-node servers as well as GPU servers purpose-built for the demands of AI and VDI. While all these systems are designed to handle multiple workloads, each server is optimized for specific use cases. 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 RX2540 M7
The Fujitsu PRIMERGY RX2540 M7 generation x86 server based on dual-sockets delivers the latest in performance, improved usability, and flexible expandability in an optimized compact 2U chassis. The PRIMERGY RX2540 M7 forms the valuable standard in every modern data center, using the latest technology developments to run nearly every workload from the most basic to business-critical applications depending on the chosen configuration. Equipped with the latest 4th generation of Intel® Xeon® Scalable Processors with up to 60 cores and 4x UPI 2.0 links, there are resulting performance improvements of more than 40% compared to the previous generation processors. Along with enhanced DDR5 memory technology supporting up to 4,800 MT/s, the server features a flexible, large amount of memory capacity. Configurable in 32 DIMM slots are in total 8TB memory with latest DDR5 modules supported. The support of Compute Express Link (CXL) with 4x 16 devices is included. The modular design of the server offers excellent expandability with up to 12x 3.5” SAS/SATA, up to 24x 2.5” SAS/SATA/NVMe storage drives. In addition, 6 further 2.5” storage devices SAS/SATA/NVMe are available as an option on the rear of the chassis. Additional expansion options are provided by up to 8x PCIe 5.0 slots and SAS 24G for upcoming devices. Moreover, the server can be equipped with two double-width or up to six single-width NVIDIA GPU cards. Thus, the server also provides optimized performance for AI and HPC workloads. An onboard OCP v3 LAN connection complete the overall picture. The server system also includes the latest security technologies to help secure sensitive workloads and enable new opportunities to unleash the power of data. PRIMERGY RX2540 M7 always provides Platform Firmware Resilience (PFR) to help protect against platform firmware attacks and is designed to detect and correct them before they can compromise or disable the machine. Even as your workloads and administration tasks become more complex, the Fujitsu Infrastructure Manager (ISM) as well as the integrated next generation Remote Management Controller (iRMC S6) simplifies management of your server and the IT infrastructure so you can focus on your business objectives. Where the right performance, expandability, and efficiency are essential, the PRIMERGY RX2540 M7 is the ideal server for business-critical workloads such as collaboration, business processing, AI, machine learning, graphics rendering, or in-memory databases.
## Features & Benefits

### Main Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unmatched Scalability and Performance</td>
<td>2U, 2-socket platform that provides scalability and performance to adapt to a variety of applications. Drive demanding workloads by latest 4th Generation Intel® Xeon® Scalable Processors with up to 60 cores per CPU.</td>
</tr>
<tr>
<td>Accelerate IT Transformation</td>
<td>Transform your data center for modern operations and drive demanding workloads with 32 DIMM modules (up to 8 TB). DDR5 DIMM memory provides fast, high capacity for memory intensive workloads.</td>
</tr>
<tr>
<td>Extensive Expandability</td>
<td>Maximize storage performance with up to 12x 3.5&quot; or up to 24x 2.5&quot; storage devices and ensure application performance scales to meet demands. Up to 8 PCIe 5.0 slots and OCP v3 adapters also ensure enough growth opportunities.</td>
</tr>
<tr>
<td>Agile Infrastructure Management</td>
<td>As you scale your infrastructure, scale your profitability with embedded intelligence from iRMC S6 as well as Infrastructure Manager (ISM) which enables organizations to have centralized control over the infrastructure using a single user interface.</td>
</tr>
<tr>
<td>Comprehensive Protection</td>
<td>Benefit from advanced security technologies such as Platform Firmware Resilience (PFR) to protect the most sensitive portions of a workload, encryption support to enhance data and VM protection as well as physical protection to avoid unauthorized access.</td>
</tr>
</tbody>
</table>

### Unmatched Scalability and Performance
- Wide choice of different available types of 4th Generation Intel® Xeon® Scalable processors. Each processor offers up to 60 cores (depending on SKU), 16 memory channels, up to 4 Intel® Ultra Path Interconnect (UPI 2.0 at 16 GT/s) and PCI-Express 5.0 with up to 80 lanes (per socket) enabling a significantly higher performance and efficiency.

### Accelerate IT Transformation
- New DDR5 DIMM modul (@ 4,800 MT/s) technology supported with 4th Gen Intel® Xeon® Scalable processors and create a high performing, large-capacity of 8 TB in 32 memory slots that helps turn more data into actionable insights with the RX2540 M7.

### Extensive Expandability
- Expand with up to 8 PCIe 5.0 slots and OCP v3 small form factor solution. The server can be equipped with up to six NVIDIA GPU cards (depending on card). Moreover, different available base units with 10/12x 3.5-inch or up to 16/24x 2.5-inch support provide massive expandability. Our server systems are built to scale easily to be able to adapt to a variety of applications and meet upcoming demands.

### Agile Infrastructure Management
- Infrastructure Manager (ISM) provides seamless, holistic management ensuring that IT infrastructures retain the dynamic flexibility required to support ever-changing business demands. Two versions of ISM are available. ISM Advanced is a powerful, fully featured version offering comprehensive infrastructure management capabilities such as support for multiple hardware configurations, physical and virtual network connection indicators and firmware baseline updates. A free entry-level version, ISM Essential, provides essential monitoring and firmware update of all supported devices, including servers, storage and network switches.

### Comprehensive Protection
- PRIMERGY servers are equipped with beneficial features to protect against, detect and recover from security breaches (UEFI Secure Boot, TPM 2.0, signed firmware updates, agent-free device management, secure authorization and authentication, alerting and logging, secure Out of Band Management with iRMC S6, …). High availability features help facilitate continuous operations.
# Technical details

## PRIMERGY RX2540 M7

<table>
<thead>
<tr>
<th>Base unit</th>
<th>PRIMERGY RX2540 M7 LFF</th>
<th>PRIMERGY RX2540 M7 SFF</th>
<th>PRIMERGY RX2540 M7 SFF</th>
<th>PRIMERGY RX2540 M7 SFF</th>
<th>PRIMERGY RX2540 M7 LFF</th>
<th>PRIMERGY RX2540 M7 LFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing types</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
</tr>
<tr>
<td>Storage drive architecture</td>
<td>10x 3.5-inch SAS/ SATA</td>
<td>12x 3.5-inch SAS/ SATA</td>
<td>16x 2.5-inch SAS/ SATA</td>
<td>8x 2.5-inch SAS/ SATA/PCIe</td>
<td>24x 2.5-inch SAS/ SATA</td>
<td>6x 3.5-inch SAS/ SATA</td>
</tr>
<tr>
<td>Power supply</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
</tr>
</tbody>
</table>

### Mainboard

- **Mainboard type**: D3983
- **Chipset**: Intel® C741

### Processor quantity and type

1. **Intel® Xeon® Bronze Processor**
   - Intel® Xeon® Bronze 3408U  (8C, 1.8 GHz, TLC: 22.5 MB, Turbo: 1.90 GHz, 16 GT/s, Mem bus: 4,000MHz, 125 W)
   - Intel® Xeon® Max Processor 9460 (40C, 2.20 GHz, TLC: 60 MB, Turbo: 3.50 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
   - Intel® Xeon® Max Processor 9462 (32 C, 2.7 GHz, TLC: 60 MB, Turbo: 3.50 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)

2. **Intel® Xeon® Silver Processor**
   - Intel® Xeon® Gold 5412U  (24C, 2.1 GHz, TLC: 45 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4,400MHz, 185 W)
   - Intel® Xeon® Gold 5415+  (8C, 2.9 GHz, TLC: 22.5 MB, Turbo: 3.60 GHz, 16 GT/s, Mem bus: 4,400MHz, 150 W)

3. **Intel® Xeon® Gold Processor**
   - Intel® Xeon® Gold 5418Y+  (32 C, 2.2 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 205 W)
   - Intel® Xeon® Gold 5420Y+  (28C, 2.0 GHz, TLC: 52.5 MB, Turbo: 2.70 GHz, 16 GT/s, Mem bus: 4,400MHz, 205 W)
   - Intel® Xeon® Gold 6428N (32 C, 1.8 GHz, TLC: 60 MB, Turbo: 2.50 GHz, 16 GT/s, Mem bus: 4,000MHz, 185 W)
   - Intel® Xeon® Gold 6430 (32 C, 2.1 GHz, TLC: 60 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4,400MHz, 270 W)
   - Intel® Xeon® Gold 6434 (8C, 3.7 GHz, TLC: 22.5 MB, Turbo: 4.10 GHz, 16 GT/s, Mem bus: 4,800MHz, 195 W)
   - Intel® Xeon® Gold 6438M (32 C, 2.2 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 205 W)
   - Intel® Xeon® Gold 6438N (32 C, 2.0 GHz, TLC: 60 MB, Turbo: 2.70 GHz, 16 GT/s, Mem bus: 4,800MHz, 205 W)
   - Intel® Xeon® Gold 6438Y+ (32 C, 2.0 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 205 W)
   - Intel® Xeon® Gold 6442Y (24C, 2.6 GHz, TLC: 60 MB, Turbo: 3.30 GHz, 16 GT/s, Mem bus: 4,800MHz, 225 W)
   - Intel® Xeon® Gold 6444Y (16C, 3.6 GHz, TLC: 45 MB, Turbo: 4.00 GHz, 16 GT/s, Mem bus: 4,800MHz, 270 W)
   - Intel® Xeon® Gold 6448Y (32 C, 2.1 GHz, TLC: 60 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4,800MHz, 225 W)
   - Intel® Xeon® Gold 6454S (32 C, 2.2 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 270 W)
   - Intel® Xeon® Max Processor 9460 (40C, 2.20 GHz, TLC: 60 MB, Turbo: 3.50 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
   - Intel® Xeon® Max Processor 9462 (32 C, 2.7 GHz, TLC: 60 MB, Turbo: 3.50 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
   - Intel® Xeon® Max Processor 9468 (48C, 2.10 GHz, TLC: 60 MB, Turbo: 3.50 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
### Processor
- **Intel® Xeon® Platinum Processor**
  - Intel® Xeon® Max Processor 9460 (40C, 2.20 GHz, TLC: 60 MB, Turbo: 3.50 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Max Processor 9462 (32 C, 2.7 GHz, TLC: 60 MB, Turbo: 3.50 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Max Processor 9468 (48C, 2.10 GHz, TLC: 60 MB, Turbo: 3.50 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Platinum 8452Y (36C, 2.0 GHz, TLC: 67.5 MB, Turbo: 2.80 GHz, Mem bus: 4,800MHz, 300 W)
  - Intel® Xeon® Platinum 8458F (44C, 2.7 GHz, TLC: 82.5 MB, Turbo: 3.20 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Platinum 8460Y+ (40C, 2.0 GHz, TLC: 76.5 MB, Turbo: 3.00 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Platinum 8462Y+ (32 C, 2.8 GHz, TLC: 60 MB, Turbo: 3.60 GHz, Mem bus: 4,800MHz, 300 W)
  - Intel® Xeon® Platinum 8468 (48C, 2.1 GHz, TLC: 105 MB, Turbo: 3.10 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Platinum 8468V (48C, 2.4 GHz, TLC: 97.5 MB, Turbo: 2.90 GHz, Mem bus: 4,800MHz, 330 W)
  - Intel® Xeon® Platinum 8470 (52C, 2.0 GHz, TLC: 105 MB, Turbo: 3.00 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Platinum 8470N (52C, 1.7 GHz, TLC: 97.5 MB, Turbo: 2.70 GHz, Mem bus: 4,800MHz, 300 W)
  - Intel® Xeon® Platinum 8480+ (56C, 2.0 GHz, TLC: 112.5 MB, Turbo: 3.00 GHz, Mem bus: 4,800MHz, 350 W)
  - Intel® Xeon® Platinum 8490H (60C, 1.9 GHz, TLC: 112.5 MB, Turbo: 2.90 GHz, Mem bus: 4,800MHz, 350 W)

**Processor notes**: No mix of different processor types

**Memory slots**: 32 (16 DIMMs per CPU, 8 channels with 2 slots per channel)

**Memory slot type**: DIMM (DDR5)

**Memory capacity (min. - max.)**: 16 GB - 8 TB

**Memory protection**: ECC
  - Memory Scrubbing
  - SDDC
  - ADDDC (Adaptive Double DRAM Device Correction)

**Memory modules notes**: Max capacity may be changed.

### Interfaces
- **USB 3.x ports**: 6 x USB 3.0 (2x front, 2x rear, 2x internal)
- **Graphics (15-pin)**: 2 x VGA (thereof 1x front optional - not for base unit with 12x 3.5" and 24x 2.5" drives)
- **Serial 1 (9-pin)**: 1 x serial RS-232-C optional, usable for iRMC or system or shared
- **Management LAN (RJ45)**: 1 x dedicated management LAN port for iRMC S6 (10/100/1000 Mbit/s)

**Interface notes**: Management LAN traffic can be switched to shared onboard Gbit LAN port, speed and connector is related to installed interface card.

### Onboard or integrated Controller
- **RAID controller**: All hardware storage controller options are described under Components

**SATA Controller**: 1x SATA channel for ODD, 2x SATA channel for M.2 and 8x SATA channel for HDD/SSD

**LAN Controller**: Dynamic LoM via OCP slot; OCPv3 compliant
  - Optional OCP adaptors:
    - 4 x 1 Gbit/s Ethernet (RJ45)
    - 2 x 10 Gbit/s Ethernet (RJ45)
    - 4 x 10 Gbit/s Ethernet (RJ45)
    - 2 x 10 Gbit/s SFP+ 4 x 10 Gbit/s SFP+ 2 x 25 Gbit/s SFP28 4 x 25 Gbit/s SFP28 2 x 100 Gbit/s QSFP28

**Remote management controller**: Integrated Remote Management Controller (iRMC S6, 1024 MB attached memory incl. graphics controller) IPMI 2.0 compatible

**GPU / coprocessor**: GFX/GPU support for dedicated base units. Please see relevant WebArchitect for details and restrictions.

**Trusted Platform Module (TPM)**: Infineon / TPM 2.0 module; TCG compliant (option)

### Slots
- **PCI-Express 5.0 x8**: 2 x
- **PCI-Express 5.0 x16**: 4 x Low profile
- **PCI-Express 4.0 x16**: 1 x Low profile
### Slots

| Slot Notes | One PCIe 4.0 x16 slot is only for a Modular RAID controller, it may be occupied with it if configured. Important: 3 PCIe slots are supported with the first processor. 4 PCIe slots are supported with two processors. PCIe riser card options can expand number of slots by two (max. 8 in total) and support max. 4 full height slots. Possible slot length described in relevant system configurator. |

### Drive bays

| Storage drive bays | up to 16x 2.5-inch, 24x 2.5-inch, 10x 3.5-inch or 12x 3.5-inch base units |
| Accessible drive bays | 1 x 5.25/9.5mm for DVD-RW/Blu-ray |
| Notes accessible drives | All possible options described in relevant system configurator. |
| Optional hard disk bays | 2x/4x 2.5-inch hot-plug SAS/SATA/PCIe rear option |

### General system information

| Number of fans | 6 |
| Fan configuration | redundant / hot-plug |
| Fan notes | n+1 redundant |

### Operating panel

| Operating buttons | On/off switch |
| Reset button |
| ID button |

| Status LEDs | At system front side: Power (DC-On: green / AC-On: white) Global error (orange) Identification (blue) Hard disks access (green) CSS (orange) At system rear side: System status (green) Identification (blue) Global error (orange) LAN connection (green) LAN speed (green / yellow) |

### BIOS

| BIOS features | UEFI compliant Secure boot support ROM based setup utility GPT support for boot drives larger than 2.2 TB Memory Redundancy support (Mirroring) IPMI support Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Linux versions IPv4/IPv6 remote PXE & iSCSI boot support Cryptographically Signed BIOS Firmware Update HTTP and HTTPS Boot PCIe Bifurcation configurable |

### Operating Systems and Virtualization Software

| Operating system release link | http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f5b-4cfbf3230473 |
### Operating Systems and Virtualization Software

**Operating system notes**  
Support of other Linux derivatives on demand  
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.

### Infrastructure and Server Management

| DC Infrastructure Management | Infrastructure Manager (ISM)  
|                           | Essential Edition  
|                           | Advanced Edition  
| Server Management          | ServerView Agentless Service (SVAS)  
|                           | ServerView ESXi CIM Provider  
|                           | ServerView Installation Manager (SVIM)  
|                           | ServerView Update Manager Express (UME)  

**Management notes**  
For further information regarding ISM see dedicated data sheets.

**Manageability link**  
http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6

### Dimensions / Weight

| Rack (W x D x H) | 482.5 mm (Bezel) / 435 mm (Body) x 800 x 86.9 mm  
| Mounting Depth Rack | 873.1 mm  
| Height Unit Rack | 2 U  
| 19" rackmount | Yes  
| Weight | max. 32 kg  

**Weight notes**  
Actual weight may vary depending on configuration

**Rack integration kit**  
Rack integration kit as option

### Environment

**Operating temperature note**  
PRIMERGY servers are designed for the usage with operating temperatures of up to 35°C. There could be configurations that are not able to work within this normal operation class. Please use the Fujitsu WebArchitect (www.fujitsu.com/configurator/public) to get detailed information on the corresponding configurations.

**Operating relative humidity**  
8 - 85 % (non condensing)

**Operating environment link**  

**Noise emission**  
Measured according to ISO 7779 and declared according to ISO 9296

**Sound pressure (LpAm)**  
39.3 dB(A) (idle) / 41.9 dB(A) (operating) typical Values

**Sound power (LWAd; 1B = 10dB)**  
5.3 B (idle) / 5.6 B (operating) typical Values

**Noise notes**  
Noise emissions depend on operation modes, system configuration and ambient temperature.

### Electrical values

**Power supply configuration**  
1 x hot-plug power supply or 2x hot-plug power supply for redundancy

**Hot-plug power supply redundancy**  
Optional

**Active power (max. configuration)**  
2,608 W

**Apparent power (max. configuration)**  
2635 VA

**Heat emission (max. configuration)**  
9388.8 kJ/h (8898.9 BTU/h)

**Rated current max.**  
12A (100-127 V) / 15A (200-240 V)

**Active power note**  
To estimate the power consumption of different configurations please use the Fujitsu WebArchitect: www.fujitsu.com/configurator/public

**Power supply**  
500W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz  
500W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz  
900W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz  
900W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz  
1600W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz; 100V range: 1030W  
1600W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz  
2200W hot-plug, 94% (Platinum efficiency), 200-240V, 50 / 60Hz  
2400W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz  
1300W hot-plug, 94% (equivalent to Platinum efficiency) –48V DC  
1600W hot plug, 94% (equivalent to Platinum efficiency) 380V DC
Electrical values

Power supply notes
Power Safeguard adapts system performance in case the power requirements exceeds supply limits. Platinum PSUs are only for APAC/Japan market.

Compliance

Product
PRIMERGY RX2540 M7
Model
PR300E

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

Germany
GS

Europe
CE

USA/Canada
NRTLc/us
FCC Class A
ICES-003 / NMB-003 Class A

Japan
VCCI Class A + JIS 61000-3-2

Russia
EAC

South Korea
KC

China
CCC

Australia/New Zealand
RCM

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

Backup Drives
LTO7 HH Ultrium, 2,500 GB, 300 MB/s, half height, SAS 6Gb/s
LTO7 HH Ultrium, 300 MB/s, half height
LTO7 HH Ultrium, 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 Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I

HDD 2.5-inch
HDD SATA, 6Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
HDD SATA, 6Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
HDD SAS, 12Gb/s, 900 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12Gb/s, 600 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
HDD SAS, 12Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
HDD SAS, 12Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
HDD SAS, 12Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
### HDD 3.5-inch

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Interface</th>
<th>RPM</th>
<th>Unit</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 TB</td>
<td>SATA, 6 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
</tr>
<tr>
<td>16 TB</td>
<td>SATA, 6 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
</tr>
<tr>
<td>14 TB</td>
<td>SATA, 6 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
</tr>
<tr>
<td>12 TB</td>
<td>SATA, 6 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
</tr>
<tr>
<td>4 TB</td>
<td>SATA, 6 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
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<tr>
<td>2 TB</td>
<td>SATA, 6 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
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<tr>
<td>1 TB</td>
<td>SATA, 6 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
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<tr>
<td>900 GB</td>
<td>SAS, 12 Gb/s</td>
<td>15,000</td>
<td>3.5-inch</td>
<td>hot-plug, enterprise</td>
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<tr>
<td>600 GB</td>
<td>SAS, 12 Gb/s</td>
<td>10,000</td>
<td>3.5-inch</td>
<td>hot-plug, enterprise</td>
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<tr>
<td>300 GB</td>
<td>SAS, 12 Gb/s</td>
<td>15,000</td>
<td>3.5-inch</td>
<td>hot-plug, enterprise</td>
</tr>
<tr>
<td>20 TB</td>
<td>SAS, 12 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
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<tr>
<td>18 TB</td>
<td>SAS, 12 Gb/s</td>
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<tr>
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<td>7,200</td>
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<td>hot-plug, business critical</td>
</tr>
<tr>
<td>12 TB</td>
<td>SAS, 12 Gb/s</td>
<td>7,200</td>
<td>3.5-inch</td>
<td>hot-plug, business critical</td>
</tr>
<tr>
<td>2.4 TB</td>
<td>SAS, 12 Gb/s</td>
<td>10,000</td>
<td>3.5-inch</td>
<td>hot-plug, enterprise</td>
</tr>
<tr>
<td>1.8 TB</td>
<td>SAS, 12 Gb/s</td>
<td>10,000</td>
<td>3.5-inch</td>
<td>hot-plug, enterprise</td>
</tr>
<tr>
<td>1.2 TB</td>
<td>SAS, 12 Gb/s</td>
<td>10,000</td>
<td>3.5-inch</td>
<td>hot-plug, enterprise</td>
</tr>
</tbody>
</table>

### SSD SAS 2.5-inch

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Interface</th>
<th>RPM</th>
<th>Unit</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>960 GB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD, SED</td>
</tr>
<tr>
<td>800 GB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 10 DWPD</td>
</tr>
<tr>
<td>15.36 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD</td>
</tr>
<tr>
<td>7.68 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD</td>
</tr>
<tr>
<td>6.4 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Mixed-use</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 3 DWPD</td>
</tr>
<tr>
<td>3.84 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD</td>
</tr>
<tr>
<td>3.2 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Mixed-use</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 3 DWPD</td>
</tr>
<tr>
<td>1.92 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD</td>
</tr>
<tr>
<td>1.6 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Write-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 10 DWPD</td>
</tr>
<tr>
<td>1.6 TB</td>
<td>SAS, 22.5 Gb/s</td>
<td>Mixed-use</td>
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<td>hot-plug, enterprise, 3 DWPD</td>
</tr>
<tr>
<td>960 GB</td>
<td>SAS, 12 Gb/s</td>
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</tr>
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<td>SAS, 12 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 10 DWPD</td>
</tr>
<tr>
<td>800 GB</td>
<td>SAS, 12 Gb/s</td>
<td>Mixed-use</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 3 DWPD</td>
</tr>
<tr>
<td>400 GB</td>
<td>SAS, 12 Gb/s</td>
<td>Write-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 10 DWPD</td>
</tr>
<tr>
<td>15.36 TB</td>
<td>SAS, 12 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD</td>
</tr>
<tr>
<td>7.68 TB</td>
<td>SAS, 12 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD</td>
</tr>
<tr>
<td>6.4 TB</td>
<td>SAS, 12 Gb/s</td>
<td>Mixed-use</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 3 DWPD</td>
</tr>
<tr>
<td>3.84 TB</td>
<td>SAS, 12 Gb/s</td>
<td>Read-Intensive</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 1 DWPD</td>
</tr>
<tr>
<td>3.2 TB</td>
<td>SAS, 12 Gb/s</td>
<td>Mixed-use</td>
<td>2.5-inch</td>
<td>hot-plug, enterprise, 3 DWPD</td>
</tr>
<tr>
<td>1.92 TB</td>
<td>SAS, 12 Gb/s</td>
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<td>2.5-inch</td>
<td>hot-plug, enterprise, 3 DWPD</td>
</tr>
</tbody>
</table>
### PCIe SSD & SATA DOM SSD
- PCIe-SSD SFF, 960 GB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 800 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD
- PCIe-SSD SFF, 400 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD
- PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
- PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
- PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
- PCIe-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD
- PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD

### SCSI / SAS Controller
- PSAS CP 2100-8i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
- Broadcom® PSAS CP600i LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8
- Broadcom® PSAS CP600e LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8
- Broadcom® PSAS CP600e FH SAS Ctrl. 12 Gbit/s PCIe 3.0 x8

### RAID Controller
- Pre-configured RAID1 Array for M.2 in PDUAL,
  - Fujitsu PRAID EP680i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcle 16 GT/s, 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916
  - Fujitsu PRAID EP680e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916
  - Fujitsu PRAID EP680e FH, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916
  - Fujitsu PRAID EP640i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3908
  - Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcle 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916
  - Fujitsu PRAID EP540i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcle 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3916
  - Fujitsu PRAID EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcle 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 SAS3916
  - Fujitsu PRAID EP 3258-16i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, NVMe-Pcle 16 GT/s, 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU
  - Fujitsu PRAID EP 3254-8i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU
  - Fujitsu PRAID EP 3252-8i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU
  - Broadcom® PRAID CP500i LP, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, No FBU support

### Fibre Channel controller
- Fibre Channel Host Bus Adapter 1 x Qlogic QLE2770-FJ-BK LC-style
- Fibre Channel Host Bus Adapter 2 x Qlogic QLE2772-FJ-BK LC-style
- Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPE35000-M2-F MMF LC-style
- Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPE35002-M2-F MMF LC-style
- Fibre Channel Host Bus Adapter 1 x Qlogic QLE2870-FJ-BK MMF LC-style
- Fibre Channel Host Bus Adapter 2 x Qlogic QLE2872-FJ-BK MMF LC-style
- Fibre Channel Host Bus Adapter 1 x Emulex LPE36000-M64-F MMF LC-style
- Fibre Channel Host Bus Adapter 2 x Emulex LPE36002-M64-F MMF LC-style
- Fibre Channel Host Bus Adapter 2 x Emulex LPE36000-M64-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

InfiniBand HCA 1 x 200Gb/s PCIe x16 QSFP for the US market max. one IB HCA 200Gb controller can be installed (Mellanox)
### GPU computing card

- **NVIDIA® A100** 80GB, 6912 cores, 1935GB/s, 80GB HBM2e, N/A, PCIe 4.0 x16
- **NVIDIA® H100** 2TB/s, 80GB HBM3, N/A, PCIe x16
- **NVIDIA® A40** 48 GB, 696 GB/s, 48GB GDDR6, N/A, PCIe 4.0 x16
- **NVIDIA® RTX™ A6000** 48 GB, 696 GB/s, 48 GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort
- **NVIDIA® A16** 64 GB, 800GB/s (4 x200GB/s), 64GB GDDR6 (4 x16GB), N/A, PCIe 4.0 x16
- **NVIDIA® A30** 933GB/s, 24GB HBM2, N/A, PCIe 4.0 x16
- **NVIDIA® RTX™ A4500** 640 GB/s, 20GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort
- **NVIDIA® A2** 200GB/s, 16GB GDDR6, N/A, PCIe 4.0 x8
- **NVIDIA® A2** 200GB/s, 16GB, N/A, PCIe 4.0 x8
- **NVIDIA® RTX™ 6000 Ada** 48 GB, 786 GB/s, 20 GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort
- **NVIDIA® T400 4GB** 4 GB, 384 cores, 4GB, N/A, PCIe x16, 3 x miniDP

### Rack infrastructure

- **Cable Arm 2U** for PRIMECENTER- and 3rd-party racks
- Rackmount kit full extraction (870mm). Tool less mounting for general use, length variable 559-890mm. If consider to shipment with Rack and earthquake, suggest to fix RMK with security screw.
- Rackmount kit partial extraction (400mm). Tool less mounting for general use, length variable 559-890mm.

### Warranty

- **Warranty period** 3 years
- **Warranty type** Onsite warranty
- **Warranty Terms & Conditions** [www.fujitsu.com/support](http://www.fujitsu.com/support)

### 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 Response Time: 4h - for locations outside of EMEA please contact your local Fujitsu partner.

### Service Lifecycle

- at least 5 years after shipment, for details see [https://support.ts.fujitsu.com/](https://support.ts.fujitsu.com/)

### Service Weblink

More information

Fujitsu products, solutions & services
In addition to Fujitsu PRIMERGY RX2540 M7, 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 RX2540 M7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/primergy

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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