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 (iRMCS6) 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

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unmatched Scalability and Performance</strong></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>- 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.</td>
<td>- Transform your data center for modern operations and drive demanding workloads with up to 32 DIMM modules (up to 8 TB). DDR5 DIMM memory provides fast, high capacity for memory intensive workloads.</td>
</tr>
<tr>
<td><strong>Accelerate IT Transformation</strong></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>- 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.</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><strong>Extensive Expandability</strong></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>
<tr>
<td>- 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.</td>
<td>- 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.</td>
</tr>
<tr>
<td><strong>Agile Infrastructure Management</strong></td>
<td>- 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.</td>
</tr>
<tr>
<td>- 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.</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>
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http://www.fujitsu.com/emeia/products/computing/servers/primergy/rack/rx2540m7/
## 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>
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<tr>
<td>Housing types</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
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<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>
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<td>Dual Socket Rack Server</td>
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### Mainboard

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<tbody>
<tr>
<td>Chipset</td>
<td>Intel® C741</td>
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</table>

### Processor quantity and type

1 - 2 x Intel® Xeon® Bronze 3xxx processor / Intel® Xeon® Silver 4xxx processor / Intel® Xeon® Gold 5xxx processor / Intel® Xeon® Platinum 8xxx processor

#### 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: 4000MHz, 125 W)

#### Intel® Xeon® Silver Processor

- Intel® Xeon® Silver 4410T (10C, 2.7 GHz, TLC: 26.25 MB, Turbo: 3.40 GHz, 16 GT/s, Mem bus: 4000MHz, 150 W)
- Intel® Xeon® Silver 4410Y (12C, 2.0 GHz, TLC: 30 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4000MHz, 150 W)
- Intel® Xeon® Silver 4416+ (20C, 2.0 GHz, TLC: 37.5 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4000MHz, 165 W)

#### Intel® Xeon® Gold Processor

- Intel® Xeon® Gold 5412U (24C, 2.1 GHz, TLC: 45 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4000MHz, 185 W)
- Intel® Xeon® Gold 5415+ (8C, 2.9 GHz, TLC: 22.5 MB, Turbo: 3.60 GHz, 16 GT/s, Mem bus: 4000MHz, 150 W)
- Intel® Xeon® Gold 5416S (16C, 2.0 GHz, TLC: 30 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4000MHz, 150 W)
- Intel® Xeon® Gold 5418N (24C, 1.8 GHz, TLC: 45 MB, Turbo: 2.60 GHz, 16 GT/s, Mem bus: 4000MHz, 165 W)
- Intel® Xeon® Gold 5418Y (24C, 2.0 GHz, TLC: 45 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4000MHz, 185 W)
- Intel® Xeon® Gold 5420+ (28C, 2.0 GHz, TLC: 52.5 MB, Turbo: 2.70 GHz, 16 GT/s, Mem bus: 4000MHz, 205 W)
- Intel® Xeon® Gold 6414U (32C, 2.0 GHz, TLC: 60 MB, Turbo: 3.60 GHz, 16 GT/s, Mem bus: 4800MHz, 250 W)
- Intel® Xeon® Gold 6426Y (16C, 2.5 GHz, TLC: 37.5 MB, Turbo: 3.30 GHz, 16 GT/s, Mem bus: 4800MHz, 185 W)
- Intel® Xeon® Gold 6428N (32C, 1.8 GHz, TLC: 60 MB, Turbo: 2.50 GHz, 16 GT/s, Mem bus: 4000MHz, 185 W)
- Intel® Xeon® Gold 6430 (32C, 2.1 GHz, TLC: 60 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4400MHz, 270 W)
- Intel® Xeon® Gold 6438N (32C, 2.2 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4800MHz, 205 W)
- Intel® Xeon® Gold 6438Y (32C, 2.0 GHz, TLC: 60 MB, Turbo: 2.70 GHz, 16 GT/s, Mem bus: 4800MHz, 205 W)
- Intel® Xeon® Gold 6438Y+ (32C, 2.0 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4800MHz, 205 W)
- Intel® Xeon® Gold 6442Y (24C, 2.6 GHz, TLC: 60 MB, Turbo: 3.30 GHz, 16 GT/s, Mem bus: 4800MHz, 225 W)
- Intel® Xeon® Gold 6444Y (16C, 3.6 GHz, TLC: 45 MB, Turbo: 4.00 GHz, 16 GT/s, Mem bus: 4800MHz, 270 W)
- Intel® Xeon® Gold 6448Y (32C, 2.1 GHz, TLC: 60 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4800MHz, 225 W)
- Intel® Xeon® Gold 6454S (32C, 2.2 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4800MHz, 270 W)

#### Intel® Xeon® Platinum Processor

- Intel® Xeon® Platinum 8452Y (36C, 2.0 GHz, TLC: 67.5 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4800MHz, 300 W)
- Intel® Xeon® Platinum 8456U (44C, 2.7 GHz, TLC: 82.5 MB, Turbo: 3.20 GHz, 16 GT/s, Mem bus: 4800MHz, 350 W)
- Intel® Xeon® Platinum 8460Y (40C, 2.0 GHz, TLC: 105 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4800MHz, 350 W)
- Intel® Xeon® Platinum 8462Y (44C, 2.8 GHz, TLC: 60 MB, Turbo: 3.60 GHz, 16 GT/s, Mem bus: 4800MHz, 300 W)
- Intel® Xeon® Platinum 8466Y (48C, 2.1 GHz, TLC: 105 MB, Turbo: 3.10 GHz, 16 GT/s, Mem bus: 4800MHz, 350 W)
- Intel® Xeon® Platinum 8468Y (48C, 2.4 GHz, TLC: 97.5 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4800MHz, 330 W)
- Intel® Xeon® Platinum 8470 (52C, 2.0 GHz, TLC: 105 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4800MHz, 350 W)
- Intel® Xeon® Platinum 8480+ (56C, 2.0 GHz, TLC: 105 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4800MHz, 350 W)
- Intel® Xeon® Platinum 8490H (60C, 1.9 GHz, TLC: 112.5 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4800MHz, 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 Mirroring support

Standard memory modules
- 128 GB (1 module(s) 128 GB) DDR5, registered, ECC, 4,800 MT/s, PCS-4800, DIMM, 4Rx4
- 16 GB (1 module(s) 16 GB) DDR5, registered, ECC, 4,800 MT/s, PCS-4800, DIMM, 1Rx8
- 256 GB (1 module(s) 256 GB) DDR5, registered, ECC, 4,800 MT/s, PCS-4800, DIMM, 8Rx4
- 32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PCS-4800, DIMM, 1Rx4
- 32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PCS-4800, DIMM, 2Rx8
- 64 GB (1 module(s) 64 GB) DDR5, registered, ECC, 4,800 MT/s, PCS-4800, DIMM, 2Rx4

Memory modules notes
Max capacity maybe 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
  For dedicated base units front AND rear storage drives may be connected to a single controller. Please see relevant system configurator for configuration options and restrictions.
- 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

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
### General system information

| Fan notes | n+1 redundant |

### Operating panel

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

| Certified or supported operating systems and virtualization software | Windows Server 2022 Datacenter  
|                                                                    | Windows Server 2022 Standard  
|                                                                    | Windows Server 2019 Datacenter  
|                                                                    | Windows Server 2019 Standard  
|                                                                    | Windows Server 2019 Essentials  
|                                                                    | VMware vSphere™ 8.0  
|                                                                    | VMware vSphere™ 7.0  
|                                                                    | SUSE® Linux Enterprise Server 15  
|                                                                    | Red Hat® Enterprise Linux 8 |


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 | Infrastructure Manager (ISM)  
|                  | Essential Edition  
|                  | Advanced Edition  
|                  | ServerView Suite |
**Infrastructure and Server Management**

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](http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6)

**Dimensions / Weight**

Dimension (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" Rack Mount 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](http://www.fujitsu.com/configurator/public)) to get detailed information on the corresponding configurations.

Operating relative humidity 8 - 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) 39.3 dB(A) (idle) / 41.9 dB(A) (operating) typical Values

Sound power (LWA; 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](http://www.fujitsu.com/configurator/public)

Power supply 500W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz

900W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz

1600W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz

2200W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz

1300W hot-plug, 94% (equivalent to Platinum efficiency) –48V DC

1600W hot-plug, 94% (equivalent to Platinum efficiency) 380V DC

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
### Compliance

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<td>BSMI</td>
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### 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

- LTO7HH Ultrium, 2,500 GB, 300 MB/s, half height, SAS 6Gb/s
- LTO7HH Ultrium, 300 MB/s, half height
- LTO7HH 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

#### Hard disk drives

- HDD SATA, 6 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
- HDD SATA, 6 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
- HDD SATA, 6 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
- HDD SATA, 6 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
- HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical
- HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical
- HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
- HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical
- HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
### Hard disk drives

<table>
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<th>Speed</th>
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<td>12 Gb/s</td>
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<td>600 GB</td>
<td>12 Gb/s</td>
<td>15,000</td>
<td>SAS</td>
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<td>1800 GB</td>
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<td>hot-plug</td>
<td>3.5-inch</td>
</tr>
<tr>
<td>960 GB</td>
<td>12 Gb/s</td>
<td>15,000</td>
<td>SAS</td>
<td>hot-plug</td>
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<td>hot-plug</td>
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<tr>
<td>120 GB</td>
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<td>96 GB</td>
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<td>SAS</td>
<td>hot-plug</td>
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</tr>
<tr>
<td>30 GB</td>
<td>12 Gb/s</td>
<td>15,000</td>
<td>SAS</td>
<td>hot-plug</td>
<td>3.5-inch</td>
</tr>
</tbody>
</table>
Solid-State-Drive

SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.5 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.5 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.5 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)
SSD M.2 SATA, 6 Gb/s, 480 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
### Solid-State-Drive

| SSD SAS, 22.5Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 22.5Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 22.5Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 22.5Gb/s, 15.36 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 22.5Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 22.5Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 22.5Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 22.5Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 22.5Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 22.5Gb/s, 6.4 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 22.5Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 800 TB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 800 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 12 Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
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| SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
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| SSD SAS, 12 Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
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| SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
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| SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
| SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
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| SSD SAS, 12 Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years) | SED |
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| SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years) | SED |
| SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED |
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