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, 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 RX4770 M5**

The FUJITSU Server PRIMERGY RX4770 M5 is an industry-standard x86 server system with four sockets, providing superior levels of performance, scalability and efficiency. This combination turns the server into an ideal platform for running databases and transactional applications, business intelligence (BI) workloads, back-end and in-memory databases as well as other compute-intensive applications. In addition, it substantially simplifies carrying out DC server optimization such as server virtualization or consolidation. Featuring the latest Intel® Xeon® Scalable Family processors with each up to 28 cores pushes this server to a whole new level of compute performance to deliver more efficient business results. Thanks to the highly performant and superfast DDR4 memory technology with up to 6TB memory capacity and optionally up to 24x Intel® Optane™ DC Persistent Memory NV-DIMM modules along with excellent support for NVMe Flash drives, the system can handle complex, data-intensive workloads such as in-memory databases like SAP HANA® and real-time business analytics even easier than the previous generation. The PRIMERGY RX4770 M5 supports 12 Gbit/s SAS/SATA controllers with optional FBU. It can either come as a 16x 2.5-inch hot-plug storage drives holding base unit or in a base unit holding a total of 12x storage drives even for directly connected PCIe SSDs. Up to eight PCI-Express Gen3 slots increases bandwidth and provides sufficient expandability for faster insights. With built-in redundancy and hot-pluggable components as well as advanced business-critical RAS features such as Resilient System- and Memory Technologies, the RX4770 M5 provides higher availability and uptime. Virtualization and consolidation of IT resources offer many benefits but can often lead to increased expenses for server administration. Therefore the PRIMERGY RX4770 M5 delivers state-of-the-art management capabilities with the latest generation integrated Remote Management Controller (iRMC S5) offering a variety of user-friendly functions to ensure a faster and more cost-effective infrastructure management, no matter whether the server is located in the server-room next door or in another part of the world.
## Features & Benefits

### Main Features

<table>
<thead>
<tr>
<th>Features &amp; Benefits</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INNOVATION MEETS PERFORMANCE</strong></td>
<td>- Wide choice of different types of Intel® Xeon® Scalable processors as well as new 2nd generation Intel® Xeon® Scalable processors. Each processor offers up to 28 cores, up to 56 threads, 12 memory channels enabling a significantly higher performance and efficiency. They rely on Intel® UltraPath Interconnect for an increased data rate between the CPUs. Intel® Optane™ DC persistent memory is an innovative memory technology that delivers a unique combination of affordable large capacity and persistence (non-volatility). 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. In total, up to 15,360 GB main memory in a mixed mode (non-volatile memory + DDR4 @ 2,933 MT/s) are available.</td>
</tr>
<tr>
<td></td>
<td>- Ready for the future and data growth scenarios with the performance of two processors – marking the standard of tomorrow with an increase in computing power. New SKUs of the 2nd generation Intel® Xeon® Scalable processors deliver additional customer value with increased performance and industry leading frequency for the most demanding workloads.</td>
</tr>
<tr>
<td></td>
<td>- Business-critical RAS features lower the risk for unplanned IT downtimes. The systems' enhanced set of features adds even more reliability, availability, and serviceability that customers need to run business-critical applications.</td>
</tr>
<tr>
<td></td>
<td>- Optimize, store, and move larger, more complicated data sets with Intel® Optane™ technology. This revolutionary innovation bridges critical gaps in the storage and memory hierarchy delivering persistent memory, large memory pools, fast caching and fast storage.</td>
</tr>
<tr>
<td></td>
<td>- Converged data center management that 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>
</tr>
<tr>
<td></td>
<td>- PRIMERGY servers come with a wide variety of such robust security features and combine these capabilities with the best quality and efficiency, and more agility in daily operations helps to turn IT into a business advantage faster.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Features &amp; Benefits</th>
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<tr>
<td><strong>ENHANCED FEATURES FOR ENHANCED COMPUTING</strong></td>
<td>- Extended RAS-features for fail-safe operation: Built-in redundancy and hot-pluggable components, Advanced ECC, Memory Scrubbing and SDCC. A storage drive bay configuration with up to 16x 2.5-inch or up to 12x PCIe 2.5-inch SSD SFF*, complemented by internal M.2 devices for hypervisor installations. Our power supply units with up to 96% energy efficiency and Fujitsu's Cool-safe® Advanced Thermal Design for higher ambient temperatures in the data center are available for this server.</td>
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<tr>
<th>Features &amp; Benefits</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVOLUTIONIZING MEMORY AND STORAGE</strong></td>
<td>- Intel® Optane™ persistent memory modules are DDR4 socket compatible and can co-exist with conventional DDR4 DRAM DIMMs on the same platform. They are available in capacities of 128 GB, 256 GB and 512 GB.</td>
</tr>
<tr>
<td></td>
<td>- Business-critical RAS features lower the risk for unplanned IT downtimes. The systems' enhanced set of features adds even more reliability, availability, and serviceability that customers need to run business-critical applications.</td>
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<th>Features &amp; Benefits</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INFRASTRUCTURE MANAGEMENT</strong></td>
<td>- ISM is available with two licensing options: (1) ISM Advanced is the fully featured licensed version of ISM that provides comprehensive infrastructure management capabilities across datacenter. (2) ISM Essential provides a quick start to infrastructure management with essential monitoring and update functions.</td>
</tr>
<tr>
<td></td>
<td>- Converged data center management that 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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<table>
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<tr>
<th>Features &amp; Benefits</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>PROTECT YOUR COMPANY WITH SECURE SERVERS</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 S5, …).</td>
</tr>
<tr>
<td></td>
<td>- PRIMERGY servers come with a wide variety of such robust security features and combine these capabilities with the best quality and efficiency, and more agility in daily operations helps to turn IT into a business advantage faster.</td>
</tr>
</tbody>
</table>
Technical details

PRIMERGY RX4770 M5

<table>
<thead>
<tr>
<th>Base unit</th>
<th>PRIMERGY RX4770 M5</th>
<th>PRIMERGY RX4770 M5 Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing types</td>
<td>Rack</td>
<td>Rack</td>
</tr>
<tr>
<td>Storage drive architecture</td>
<td>16x 2.5-inch SAS/SATA/PCIe, thereof max. 12x 2.5-inch PCIe</td>
<td>8x 2.5-inch SAS/SATA/PCIe</td>
</tr>
<tr>
<td>Power supply</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
</tr>
<tr>
<td>Product Type</td>
<td>Quad Socket Rack Server</td>
<td>Quad Socket Rack Server</td>
</tr>
</tbody>
</table>

Mainboard

| Mainboard type | D3753 |
| Chipset | Intel® C624 |

Processor quantity and type

| Processor quantity and type | 2 or 4 x Intel® Xeon® Gold 5xxx processor / Intel® Xeon® Gold 6xxx processor / Intel® Xeon® Platinum 8xxx processor |
| Mainboard type | Processor quantity and type |
| Intel® Xeon® Gold Processor | 2 or 4 |
| Intel® Xeon® Platinum Processor | 4 |

Intel® Xeon® Gold Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Xeon® Gold processor S215 (10C, 2.50 GHz, up to 3.0 GHz, 10.4 GT/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor S215L (10C, 2.50 GHz, up to 3.0 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor S217 (8C, 3.00 GHz, up to 3.4 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor S218B (16C, 2.30 GHz, up to 2.8 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor S220 (18C, 2.20 GHz, up to 2.7 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor S222 (4C, 3.80 GHz, up to 3.9 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6222V (20C, 1.80 GHz, up to 2.4 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6226 (12C, 2.70 GHz, up to 3.5 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6230 (20C, 2.10 GHz, up to 2.8 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6234 (8C, 3.30 GHz, up to 4.0 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6238 (22C, 2.10 GHz, up to 2.8 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6238L (22C, 2.10 GHz, up to 3.7 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6242 (16C, 2.80 GHz, up to 3.5 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6246 (12C, 3.30 GHz, up to 4.1 GHz, 10.4 GT/s)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Gold processor 6252 (24C, 2.10 GHz, up to 2.8 GHz, 10.4 GT/s)</td>
</tr>
</tbody>
</table>

Intel® Xeon® Platinum Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Xeon® Platinum 8253 (16C, 2.20 GHz, TLC: 22 MB, Turbo: 2.50 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 125 W, AVX Base 1.70 GHz, AVX Turbo 2.00 GHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intel® Xeon® Platinum 8256 (4C, 3.80 GHz, TLC: 16.5 MB, Turbo: 3.90 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 105 W, AVX Base 3.70 GHz, AVX Turbo 3.70 GHz)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Platinum 8260 (24C, 2.40 GHz, TLC: 35.75 MB, Turbo: 3.10 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Platinum 8260L (24C, 2.40 GHz, TLC: 35.75 MB, Turbo: 3.10 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Platinum 8270 (26C, 2.70 GHz, TLC: 35.75 MB, Turbo: 3.40 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)</td>
</tr>
<tr>
<td></td>
<td>Intel® Xeon® Platinum 8280L (28C, 2.70 GHz, TLC: 38.5 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)</td>
</tr>
</tbody>
</table>

Processor notes

A minimum of 2 processors must be configured, no mix of different processor types

Memory slots

48 (12 DIMMs per CPU, 6 channels with 2 slots per channel)

Memory slot type

DIMM (DDR4 / DDR-T for non-volatile memory modules)

Memory capacity (min. - max.)

16 GB - 15 TB

Memory protection

Advanced ECC
Memory Scrubbing
SDDC
Memory Mirroring support
Rank sparing memory support
Memory notes
Max. 6 slots populated with DCPMM modules per CPU, please see relevant system configurator for details. Memory Mirroring Mode with identical modules in both channel pairs of a bank (4 or 6 modules per bank) per CPU. Rank Sparing Mode with minimum of 2 modules single ranked (1R) or dual ranked (2R) or 1 module quad ranked (4R) per CPU.

Standard memory modules
<table>
<thead>
<tr>
<th>Capacity</th>
<th>Type</th>
<th>Modules</th>
<th>Speed</th>
<th>Memory Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 GB</td>
<td>(1 module(s) 8 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 1Rx8</td>
</tr>
<tr>
<td>16 GB</td>
<td>(1 module(s) 16 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx8</td>
</tr>
<tr>
<td>16 GB</td>
<td>(1 module(s) 16 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 1Rx4</td>
</tr>
<tr>
<td>32 GB</td>
<td>(1 module(s) 32 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>64 GB</td>
<td>(1 module(s) 64 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>128 GB</td>
<td>(1 module(s) 128 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, LRDIMM, 4Rx4</td>
</tr>
<tr>
<td>64 GB</td>
<td>(1 module(s) 64 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, LRDIMM, 4Rx4</td>
</tr>
<tr>
<td>96 GB</td>
<td>(2 module(s) 48 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 1Rx4</td>
</tr>
<tr>
<td>128 GB</td>
<td>(2 module(s) 64 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, LRDIMM, 4Rx4</td>
</tr>
<tr>
<td>192 GB</td>
<td>(2 module(s) 96 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>256 GB</td>
<td>(2 module(s) 128 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>384 GB</td>
<td>(2 module(s) 192 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, LRDIMM, 4Rx4</td>
</tr>
<tr>
<td>512 GB</td>
<td>(2 module(s) 256 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, LRDIMM, 4Rx4</td>
</tr>
<tr>
<td>768 GB</td>
<td>(2 module(s) 384 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>1024 GB</td>
<td>(2 module(s) 512 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>1536 GB</td>
<td>(2 module(s) 768 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>2048 GB</td>
<td>(2 module(s) 1024 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
<tr>
<td>3072 GB</td>
<td>(2 module(s) 1536 GB)</td>
<td>DDR4</td>
<td>2,933 MT/s</td>
<td>PC4-2933, DIMM, 2Rx4</td>
</tr>
</tbody>
</table>

Interfaces
- USB 3.x ports: 5 x USB 3.0 (2x front, 2x rear, 1x internal)
- Graphics (15-pin): 2 x VGA (1 x front, 1 x rear)
- Serial (9-pin): 1 x RS-232-C
- 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, 1 x SATA channel for ODD
- LAN Controller: DynamicLoM based on Intel® C624 (Intel® X722)
- Optional DynamicLoM OCP adaptors:
  - 2 x 10 Gbit/s Ethernet (RJ45)
  - 2 x 10 Gbit/s SFP+
  - 4 x 1 Gbit/s Ethernet (RJ45)
  - 4 x 10 Gbit/s SFP+
- Wake-on-LAN supported on onboard Port 1.
- Extra LAN controller (PCIe Cards) are listed below. (210 LAN card via project release possible)
- Remote management controller: Integrated Remote Management Controller (iRMC S5, 512 MB attached memory incl. graphics controller)
- Trusted Platform Module (TPM): IPMI 2.0 compatible

Slots
- PCI-Express 3.0 x16: 8 x whereas 4x full height and 4x low profile with up to 167mm length
### Slots

| Slot Notes | Important note: 4 PCIe slots are supported with the first and second processor. Additional 4 PCIe slots are supported with the third and forth processors.  
Slot 1&2: PCIe Gen3 x16 @CPU1 for low profile cards with up to 167mm length  
Slot 3&4: PCIe Gen3 x16 @CPU4 for full height cards with up to 167mm length  
Slot 5: PCIe Gen3 x16 @CPU2 for low profile cards with up to 167mm length  
Slot 6&7: PCIe Gen3 x16 @CPU3 for full height cards with up to 167mm length  
Slot 8: PCIe Gen3 x16 @CPU2 for low profile cards with up to 167mm length (used for the internal modular RAID controller if selected) |

| PCI-Express 3.0 x4 | 8 x 6 x PCIe slot 1 & 2 not available; reserved for additional air cooling |
| PCI-Express 3.0 x16 | Notes accessible drives All possible options described in relevant system configurator. |
| Drive bays | Optional accessible drives 1 x 5.25/9.5mm for DVD-RW/Blu-ray |
| Storage drive bays | 2.5-inch hot-plug SAS/SATA/PCIe  
2 x M.2 slot whereas slot 1 supports 80mm or 110mm and slot 2 supports 42mm or 80mm |
| Notes accessible drives | All possible options described in relevant system configurator. |
| Optional accessible drives | 1 x 5.25/9.5mm for DVD-RW/Blu-ray |
| Drive bays (Base unit specific) | Storage drive bays 16 x 2.5-inch hot-plug SAS/SATA/PCIe |
| General system information | 8 x 2.5-inch hot-plug SAS/SATA/PCIe |
| Number of fans | 12 |
| Fan configuration | hot-plug |
| Fan notes | 11+1 redundant |
| Operating panel | Operating buttons On/off switch  
NMI button  
Reset button  
ID button |
| Status LEDs | System status (green)  
Global error (orange)  
Identification (blue)  
Hard disks access (green)  
Power (green)  
CSS (orange)  
At system rear side:  
System status (green)  
CSS (orange)  
Identification (blue)  
Global error (orange)  
LAN connection (green)  
LAN speed (green / yellow) |
| BIOS | BIOS features UEFI compliant  
Legacy BIOS compatibility customer configuration option  
Secure boot support  
ROM based setup utility  
GPT support for boot drives larger than 2.2 TB  
Memory Redundancy support (Mirroring, Sparring)  
IPMI support  
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  
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 Datacenter, version 1809
- Windows Server Standard, version 1809
- Hyper-V Server 2016
- Windows Server 2016 Datacenter
- Windows Server 2016 Standard
- Windows Server Datacenter, version 1709
- VMware vSphere™ 7.0
- VMware vSphere™ 6.7
- VMware vSphere™ 6.5
- SUSE® Linux Enterprise Server 15
- SUSE® Linux Enterprise Server 12
- Red Hat® Enterprise Linux 8
- Red Hat® Enterprise Linux 7
- Oracle® Linux 7
- Oracle® VM 3


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

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack (W x D x H)</td>
<td>482.6 mm (Bezel) / 434.8 mm (Body) x 724.8 x 86.9 mm</td>
</tr>
<tr>
<td>Mounting Depth Rack</td>
<td>741.3 mm</td>
</tr>
<tr>
<td>Height Unit Rack</td>
<td>2 U</td>
</tr>
<tr>
<td>19” rackmount</td>
<td>Yes</td>
</tr>
<tr>
<td>Mounting Cable depth rack</td>
<td>200 mm (1,000 mm Rack recommended)</td>
</tr>
<tr>
<td>Weight</td>
<td>max. 29.7 kg</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 integration kit as option</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
FTS 04230 – Guideline for Data Center (installation specification)


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

Sound pressure (LpAm)
47.4 dB(A) (idle) / 47.4 dB(A) (operating)
### Environment

**Sound power (LWA; 1B = 10dB)**
6.5 B (idle) / 6.5 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.

**Environmental (Base unit specific)**

- **Operating ambient temperature**
  - 5 - 40 °C (41 - 104 °F)
  - 5 - 35 °C (41 - 95 °F)

### Electrical values

- **Power supply configuration**
  2 hot-plug power supplies (standard), single power supply configuration possible

- **Hot-plug power supply redundancy**
  Optional

- **Active power (max. configuration)**
  2,335 W

- **Apparent power (max. configuration)**
  2360 VA

- **Heat emission (max. configuration)**
  8406.0 kJ/h (7967.3 BTU/h)

- **Rated current max.**
  20 A (100 V) / 8 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**
  1600W hot-plug, 94% (Platinum efficiency), 200-240V, 50 / 60Hz

- **Power supply notes**
  Hot plug power supply redundancy with AC input Voltage at 200 - 240V only

### Compliance

- **Product**
  PRIMERGY RX4770 M5

- **Model**
  PS4770A

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

- **Europe**
  CE

- **USA/Canada**
  CSA/c/us
  ICES-003 / NMB-003 Class A
  FCC Class A

- **Japan**
  VCCI: Class A + JIS 61000-3-2

- **South Korea**
  KN32
  KN35

- **Australia/New Zealand**
  C-Tick (planned)

- **Taiwan**
  CNS 13438 class A - planned

- **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

#### Optical drives
- Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultrasmall, SATA I
- DVD Super Multi ultra slim , (8x DVD, 24x CD), ultrasmall, SATA I

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

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

Solid-State-Drive

- 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, 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, 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, Read-Intensive, hot-plug, 2.5-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, 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, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 1.4 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, 2.5-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, 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, 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, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
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)
SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
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)
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)
SSD SAS, 12 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
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)
SSD SAS, 12 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
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)
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)
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, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)
SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
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)
SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
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)
SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
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)
SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)

PCIe SSD & SATA DOM SSD

PCIe-SSD SFF, 750 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 30 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD SFF, 4 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD SFF, 2 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD SFF, 1 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD AIC, 750 GB, Write-Intensive, HHHL, Flash drive, 30 DWPD (Drive Writes Per Day for 5 years)
PCIe-SSD AIC, 375 GB, Write-Intensive, HHHL, Flash drive, 30 DWPD (Drive Writes Per Day for 5 years)

SCSI / SAS Controller

Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
Broadcom® PSAS CPS503i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8

RAID Controller

Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcie 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 60, 8 GB, Optional FBU based on LSI SAS3516
Fujitsu PRAID EP540i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcie 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 60, 4 GB, Optional FBU based on LSI SAS3516
Fujitsu PRAID EP540e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 60, 4 GB, Optional FBU based on LSI SAS3516
Fujitsu PRAID EP540e FH, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 60, 4 GB, Optional FBU based on LSI SAS3516
Fujitsu PRAID EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcie 8 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 60, 2 GB, Optional FBU based on LSI SAS3516
Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 60, 2 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID EP420i for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 60, 2 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 60, 1 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, No FBU support
Broadcom® PSAS CPS500e LP SAS Ctrl., SAS/SATA 12 Gbit/s, 8 ports ext.
Broadcom® PRAID CPS500i 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 32 Gbit/s Cavium QLE2740 MMF LC-style
- Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style
- Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPe32000-M6-F MMF LC-style
- Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-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

## Communication, Network
- Omni Path 1 x PCIe 3.0 x16 (Intel®)

## Rack infrastructure
- Rackmount kit full extraction (820mm), tool less mounting, length variable 559-914mm
- Rack Mount Kit
- Cable Arm 2U for PRIMECENTER- and 3rd-party racks
- Cable Management for 19-inch DataCenter / PRIMECENTER Racks

## Warranty
- Warranty period: 3 years
- Warranty type: Onsite warranty

## 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 Server PRIMERGY RX4770 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 Server PRIMERGY RX4770 M5, 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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