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 RX4770 M6**

The Fujitsu PRIMERGY Server RX4770 M6 is a quad-socket x86 system providing superior levels of scalability in a 3U chassis. The PRIMERGY RX4770 M6 accelerates business insights and delivers unprecedented performance for in-memory database, Cloud services and analytics. Powered by the 3rd Generation Intel® Xeon® Scalable Processors with up to 28 cores/CPU and large memory capacity provided by 48 DIMM slots in total supporting 15 TB memory, the server delivers outstanding results for demanding applications. Beside the DDR4 modules with memory speeds up to 3,200 MT/s, it is also possible to combine them with Intel® Optane™ persistent memory 200 series that delivers a unique combination of affordable large capacity and support for data persistence. The RX4770 M6 offers versatile resources that allows to meet changing business demands. Up 24x 2.5” SAS/SATA/NVMe options provide enough capacity to handle storage demanding applications. The possibility of using up to two double width, full-length GPU cards helps to accelerate graphically-intensive applications and 11 PCI-Express Gen3 slots increases bandwidth and provides sufficient expandability for even faster insights.

Even as your workloads and administration tasks become more complex, the Fujitsu Infrastructure Manager (ISM) as well as the integrated Remote Management Controller (iRMC S5) simplifies management of your server and the whole IT infrastructure so you can focus on your business objectives. ISM enables organizations to have centralized control over the entire data center which includes servers, storage, networking as well as cloud management software using a single user interface. Integrated security and proven reliability helps to ensure maximum uptime in your enterprise data center. The PRIMERGY RX4770 M6 is the ideal server for business-critical workloads, large-scale virtualization, back-end and in-memory databases such as SAP HANA and general data-intensive applications where the right performance, reliability and efficiency are essential.
Features & Benefits

**Main Features**

**POWER YOUR BUSINESS-CRITICAL WORKLOADS**
- Wide choice of different available types of 3rd Generation Intel® Xeon® Scalable processors. Each processor offers up to 28 cores, 12 memory channels, up to 6 Intel® Ultra Path Interconnect (Intel®UPI) and PCI Express 3 with up to 48 lanes (per socket) enabling a significantly higher performance and efficiency.

**SCALABLE APPLICATION PERFORMANCE**
- New Intel® Optane™ persistent memory 200 series improves workload performance and power efficiency while reducing data loss and downtime with enhanced error handling. The modules revolutionizes the data center memory-storage hierarchy of the past and bring massive data sets closer to the CPU for faster time to insight. In total, up to 15 TB GB main memory in a mixed mode (non-volatile memory + DDR4 @ 3,200 MT/s) are available.

**FLEXIBLE EXPANDABILITY AND RELIABILITY**
- PRIMERGY RX4770 M6 comes with DynamicLoM via OCP V3 as well as flexible PCIe riser cards with support for up to 11 x PCIe Gen3 slots. Different available base units with 8x 2.5-inch, 16x 2.5-inch or up to 24x 2.5-inch storage drive bays provide massive expandability. In addition, it is possible to equip the system with up to 2 double width full length GPU cards. Built-in redundancy and hot-pluggable components, Advanced ECC, Memory Scrubbing and SDDC ensure reliable and fail-safe operation.

**SECURE AND RELIABLE**
- PRIMERGY servers are equipped with beneficial features to protect against, detect and recover from security breaches (PFR, 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, …).

**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.

**Benefits**

- PRIMERGY RX4770 M6 server provides 4 processor computing in a 3U form factor, accelerates business insights and delivers maximum performance per node with highest memory bandwidth and I/O lanes for your most demanding applications. Moreover, a flexible processor tray allows to start with two CPU's and scale to four processors in the future saving on upfront costs.

- Address large data sets with up to 48 DIMMs (24 of which can be Intel® Optane™ PMem) and up to 15 TB of memory. Intel® Optane™ persistent memory provide fast, high capacity and cost effective memory for memory intensive workloads such as AI and data analytics.

- The flexible drive cage design supports up to 24x 2.5” SAS/SATA/NVMe storage drives. Sufficient expandability for future requirements is guaranteed by PCIe 3.0 expansion slots for graphical processing units (GPUs) and all kinds of networking cards offering increased I/O bandwidth and to be able to cope with graphic-intensive applications. Choice of DynamicLoM adapters offers range of networking bandwidth (1GbE to 25GbE) to be able to adapt and grow to changing business needs.

- The integrated Platform Firmware Resilience (PFR) feature provides a platform root of trust and thus helps to protect platform firmware, detect corruptions, and restore back to a known-good state.

- Infrastructure Manager (ISM) enables organizations to have centralized control over the entire data center that includes servers, storage, networking, cloud management software as well as power and cooling using a single user interface.
## Technical details

### PRIMERGY RX4770 M6

<table>
<thead>
<tr>
<th>Base unit</th>
<th>PRIMERGY RX4770 M6</th>
<th>PRIMERGY RX4770 M6</th>
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<tbody>
<tr>
<td>Housing types</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
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<tr>
<td>Storage drive architecture</td>
<td>8x 2.5-inch SAS/SATA/PCIe</td>
<td>16x 2.5-inch SAS/SATA/PCIe</td>
<td>24x 2.5-inch SAS/SATA/PCIe</td>
<td>16x 2.5-inch SAS/SATA/PCIe</td>
</tr>
<tr>
<td>Power supply</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
<td>Hot-plug</td>
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<tr>
<td>Product Type</td>
<td>Quad Socket Rack Server</td>
<td>Quad Socket Rack Server</td>
<td>Quad Socket Rack Server</td>
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### Mainboard

<table>
<thead>
<tr>
<th>Mainboard type</th>
<th>D3892</th>
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<tbody>
<tr>
<td>Chipset</td>
<td>Intel® C621A</td>
</tr>
</tbody>
</table>

**Processor quantity and type**

2 or 4 x Intel® Xeon® Gold 53xxH processors / Intel® Xeon® Gold 63xxH processors / Intel® Xeon® Platinum 83xxH processors / Intel® Xeon® Platinum 83xxHL processors

#### Intel® Xeon® Gold Processor

- **Intel® Xeon® Gold 5318H** (18C, 2.50 GHz, TLC: 24.75 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 2.10 GHz, AVX Turbo 3.20 GHz)
- **Intel® Xeon® Gold 5320H** (20C, 2.40 GHz, TLC: 27.5 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 2.00 GHz, AVX Turbo 3.20 GHz)
- **Intel® Xeon® Gold 6328H** (16C, 2.80 GHz, TLC: 22 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,993 MHz, 165 W, AVX Base 2.40 GHz, AVX Turbo 3.70 GHz)
- **Intel® Xeon® Gold 6328HL** (16C, 2.80 GHz, TLC: 22 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,993 MHz, 165 W, AVX Base 2.40 GHz, AVX Turbo 3.70 GHz)
- **Intel® Xeon® Gold 6330H** (24C, 2.00 GHz, TLC: 33 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,993 MHz, 150 W, AVX Base 1.6 GHz, AVX Turbo 2.7 GHz)
- **Intel® Xeon® Gold 6348H** (24C, 2.30 GHz, TLC: 33 MB, Turbo: 3.10 GHz, 10.4 GT/s, Mem bus: 2,993 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 3.10 GHz)

#### Intel® Xeon® Platinum Processor

- **Intel® Xeon® Platinum 8354H** (18C, 3.10 GHz, TLC: 24.75 MB, Turbo: 4.00 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 2.70 GHz, AVX Turbo 3.60 GHz)
- **Intel® Xeon® Platinum 8356H** (8C, 3.90 GHz, TLC: 35.75 MB, Turbo: 4.30 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 190 W, AVX Base 3.60 GHz, AVX Turbo 4.10 GHz)
- **Intel® Xeon® Platinum 8360H** (24C, 3.0 GHz, TLC: 33 MB, Turbo: 3.80 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 225 W, AVX Base 2.60 GHz, AVX Turbo 3.40 GHz)
- **Intel® Xeon® Platinum 8360HL** (24C, 3.0 GHz, TLC: 33 MB, Turbo: 3.80 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 225 W, AVX Base 2.60 GHz, AVX Turbo 3.40 GHz)
- **Intel® Xeon® Platinum 8376H** (28C, 2.60 GHz, TLC: 38.5 MB, Turbo: 3.50 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 3.30 GHz)
- **Intel® Xeon® Platinum 8376HL** (28C, 2.60 GHz, TLC: 38.5 MB, Turbo: 3.50 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 3.30 GHz)
- **Intel® Xeon® Platinum 8380H** (28C, 2.90 GHz, TLC: 38.5 MB, Turbo: 3.80 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 250 W, AVX Base 2.50 GHz, AVX Turbo 3.30 GHz)
- **Intel® Xeon® Platinum 8380HL** (28C, 2.90 GHz, TLC: 38.5 MB, Turbo: 3.80 GHz, 10.4 GT/s, Mem bus: 3,200 MHz, 250 W, AVX Base 2.50 GHz, AVX Turbo 3.30 GHz)

**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 RDIMM, LRDIMM and Intel® Optane™ PMem)

**Memory capacity (min. - max.)**

16 GB - 15 TB

**Memory protection**

ECC
Memory Scrubbing
SDDC
ADDDC (Adaptive Double DRAM Device Correction)
Memory Mirroring support

**Memory notes**

Max. 6 slots populated with PMem modules per CPU, please see relevant system configurator for details.
Standard memory modules (for use in combination with non-volatile memory modules)

- 192 GB (6 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4
- 384 GB (6 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4
- 384 GB (6 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4
- 768 GB (6 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4

Standard memory modules

- 8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx8
- 128 GB (1 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, LRDIMM, 4Rx4
- 128 GB (1 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4
- 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx8
- 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4
- 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4
- 64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, LRDIMM, 4Rx4
- 64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4
- 256 GB (1 module(s) 256 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 8Rx4

Non-volatile memory modules

- 1536 GB (6 module(s) 256 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 2Rx4
- 3072 GB (6 module(s) 512 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 4Rx4
- 768 GB (6 module(s) 128 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 1Rx4

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 1 (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® C621A, 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: 2 x 10 Gbit/s Ethernet (RJ45)
  - 2 x 10 Gbit/s SFP+
  - 4 x 10 Gbit/s SFP+
  - 2 x 25 Gbit/s QSFP28
  - 2 x 100 Gbit/s QSFP28
  - All LAN controllers (for OCP slots and PCIe slots) are described under Components.
  - For details, please refer to the relevant system configuration guide.
- Remote management controller: Integrated Remote Management Controller (iRMC S5, 512 MB attached memory incl. graphics controller)
  - IPMI 2.0 compatible
- Trusted Platform Module (TPM): Infineon / TPM 2.0 module; TCG compliant (option)

Slots

- PCI-Express 3.0 x16: 11 x whereas 4x full height and 7x low profile
- Slot Notes: Important note: 7 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 @CPU4 for full height profile cards
  - Slot 3&4: PCIe Gen3 x8 / Slot 5: PCIe Gen3 x16 @CPU1 for low profile cards
  - Slot 7&8: PCIe Gen3 x8 / Slot6&9: PCIe Gen3 x16 @CPU2 for low profile cards
  - Slot 10&11: PCIe Gen3 x16 @CPU3 for full height cards

Drive bays

- Storage drive bays: 2.5-inch hot-plug SAS/SATA/PCIe
  - 2 x M.2 slots
- 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)

<table>
<thead>
<tr>
<th>Storage drive bays</th>
<th>8 x 2.5-inch hot-plug SAS/SATA/PCIe</th>
<th>16 x 2.5-inch hot-plug SAS/SATA/PCIe</th>
<th>24 x 2.5-inch hot-plug SAS/SATA/PCIe</th>
<th>16 x 2.5-inch hot-plug SAS/SATA/PCIe</th>
</tr>
</thead>
</table>

### General system information

| Number of fans | 4 |
| Fan configuration | hot-plug |

### Operating panel

<table>
<thead>
<tr>
<th>Operating buttons</th>
<th>On/off switch</th>
<th>NMI button</th>
<th>Reset button</th>
<th>ID button</th>
</tr>
</thead>
</table>

| 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) CSS (orange) 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 | 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

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<tbody>
<tr>
<td>Operating system release link</td>
<td><a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfd3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfd3230473</a></td>
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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
- Infrastructure Manager (ISM)
  - Essential Edition
  - Advanced Edition
  - ServerView Suite

Management notes  For further information regarding ISM and ServerView Suite see dedicated data sheets.
Manageability link  http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6

Dimensions / Weight

Rack (W x D x H)  482.7 mm (Bezel) / 435 mm (Body) x 800 x 129.4 mm
Mounting Depth Rack  830.7 mm
Height Unit Rack  3 U
19” rackmount  Yes
Weight  max. 40 kg
Weight notes  Actual weight may vary depending on configuration
 Rack integration kit  Rack integration kit as option
Floor-stand (W x D x H)
Notes  Platform Firmware Resilience Model

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  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)  40.6 dB(A) (idle) / 47.7 dB(A) (operating) typical Values
Sound power (LWAd; 1B = 10dB)  6.0 B (idle) / 6.6 B (operating) typical Values
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 - 45 °C

Electrical values

Power supply configuration  2 hot-plug power supplies (standard)
Hot-plug power supply redundancy  Optional
Active power (max. configuration)  2,518 W
Apparent power (max. configuration)  2570 VA
Heat emission (max. configuration)  9064.8 kJ/h (8591.8 BTU/h)
Rated current max.  12.5A (100 V) / 14A (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), 100-240V, 50 / 60Hz
2200W hot-plug, 94% (Platinum efficiency), 200-240V, 50 / 60Hz
2400W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz
Power supply notes  900W hot-plug 96% (Titanium efficiency), 200-240V, 50 / 60Hz depends on configuration
Compliance

Product
PRIMERGY RX4770 M6
Model
PS4770B
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:V3 Class A + JIS 61000-3-2
South Korea
KN32
KN35
Australia/New Zealand
AS/NZS CISPR32 Class A
Taiwan
CNS 13438 class A
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), ultraslim, SATA I
DVD Super Multi Ultra slim , (8x DVD; 24x CD), ultraslim, 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, 2 TB, 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
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, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
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, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
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, 512n, 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, 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, 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, 3 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, 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, 3.6 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, 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 DWPD (Drive Writes Per Day for 5 years) |
| SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 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 M.2 SATA, 6 Gb/s, 480 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years) |
| 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) |
| 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, 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, Read-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) |
PCIe SSD & SATA DOM SSD

- **PCIe-SSD SFF, 960 GB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)**
- **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, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 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, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 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, 1.0 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)**

SCSI / SAS Controller

- Broadcom® PSAS CP503i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
- Broadcom® PSAS CP500e LP SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8
- Broadcom® PSAS CP500e FH SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8

RAID Controller

- Pre-configured RAID1 Array for M2 in PDUAL
- Fujitsu PRAID EP680i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 16 GT/s, 16 ports int. RAID level: 0, 1, 5, 6, 10, 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 SAS3516
  RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516
- 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, 6, 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, 6, 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, 6, 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, 6, 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 Gbit/s 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516
- 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 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 1 x 32 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 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed (Mellanox)
### GPU computing card

<table>
<thead>
<tr>
<th>Model</th>
<th>VRAM</th>
<th>Cores</th>
<th>Bandwidth</th>
<th>Memory</th>
<th>Memory Type</th>
<th>PCI Express</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® A100</td>
<td>80GB</td>
<td>6912</td>
<td>1935GB/s</td>
<td>80GB HBM2e</td>
<td>N/A</td>
<td>PCIe 4.0 x16</td>
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<tr>
<td>NVIDIA® A40</td>
<td>48GB</td>
<td>696 GB/s</td>
<td>48GB</td>
<td>GDDR6, N/A</td>
<td>PCIe 4.0 x16</td>
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<tr>
<td>NVIDIA® RTX™ A6000</td>
<td>48 GB</td>
<td>786 GB/s</td>
<td>48 GB</td>
<td>GDDR6, N/A</td>
<td>PCIe 4.0 x16</td>
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<tr>
<td>NVIDIA® A16</td>
<td>64 GB</td>
<td>800GB/s</td>
<td>4x2000GB/s</td>
<td>64GB GDDR6</td>
<td>PCIe 4.0 x16</td>
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<tr>
<td>NVIDIA® A30</td>
<td>933GB/s</td>
<td>24GB HBM2</td>
<td>N/A</td>
<td>PCIe 4.0 x16</td>
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<tr>
<td>NVIDIA® RTX™ A4500</td>
<td>640 GB</td>
<td>40GB GDDR6</td>
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<tr>
<td>NVIDIA® A2</td>
<td>200GB/s</td>
<td>16GB GDDR6</td>
<td>N/A</td>
<td>PCIe 4.0 x8</td>
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<tr>
<td>NVIDIA® T400</td>
<td>4GB</td>
<td>384 cores</td>
<td>4GB</td>
<td>PCIe x16, N/A</td>
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<tr>
<td>NVIDIA® A200</td>
<td>40GB</td>
<td>6912 cores</td>
<td>1555 GB/s</td>
<td>40GB HBM2, N/A</td>
<td>PCIe 4.0 x16</td>
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<tr>
<td>NVIDIA® Tesla® T4 LP</td>
<td>-</td>
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<td>16GB GDDR6, N/A</td>
<td>PCIe 3.0 x16</td>
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<tr>
<td>NVIDIA® Quadro® RTX 4000</td>
<td>2304 cores, 8 GB GDDR6</td>
<td>N/A</td>
<td>PCIe 3.0 x16</td>
<td>3 x DisplayPort</td>
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<tr>
<td>NVIDIA® Quadro® RTX 6000</td>
<td>24 GB</td>
<td>4608 cores</td>
<td>24 GB GDDR6</td>
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<td>PCIe 3.0 x16</td>
<td>4 x DisplayPort</td>
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<tr>
<td>NVIDIA® Quadro® RTX 8000</td>
<td>48 GB</td>
<td>4608 cores</td>
<td>48 GB GDDR6</td>
<td>N/A</td>
<td>PCIe 3.0 x16</td>
<td>4 x DisplayPort</td>
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<tr>
<td>NVIDIA® Quadro® RTX 4000</td>
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<tr>
<td>NVIDIA® Quadro® P400</td>
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<td>-</td>
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<td></td>
</tr>
</tbody>
</table>

### Graphics add on cards

<table>
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<tr>
<th>Model</th>
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<th>Cores</th>
<th>Bandwidth</th>
<th>Memory</th>
<th>Memory Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® P400</td>
<td>2 GB</td>
<td>N/A</td>
<td>PCIe x16</td>
<td>3 x miniDP</td>
<td></td>
</tr>
</tbody>
</table>

### Rack infrastructure

- Cable Arm 2U for PRIMECENTER- and 3rd-party racks
- Rackmount kit full extraction (870mm), tool less mounting for general use, length variable 359-890mm. If consider to shipment with Rack and earthquake, suggest to fix RMK with security screw.

### Warranty

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

### Product Support - the perfect extension

- **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/)
More information

In addition to Fujitsu PRIMERGY RX4770 M6, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/products/computing/

Software
www.fujitsu.com/software/

Learn more about Fujitsu PRIMERGY RX4770 M6, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/primergy

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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