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 graphic-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

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER YOUR BUSINESS-CRITICAL WORKLOADS</td>
<td>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 IO lanes for your most demanding applications. Moreover, a flexible processor tray allows to start with two CPUs and scale to four processors in the future saving on upfront costs.</td>
</tr>
<tr>
<td>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 LANE PER SOCKET enabling a significantly higher performance and efficiency.</td>
<td>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.</td>
</tr>
<tr>
<td>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 IO lanes for your most demanding applications. Moreover, a flexible processor tray allows to start with two CPUs and scale to four processors in the future saving on upfront costs.</td>
<td>The flexible drive cage design supports up to 24x 2.5&quot; 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.</td>
</tr>
<tr>
<td>SCALABLE APPLICATION PERFORMANCE</td>
<td>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.</td>
</tr>
<tr>
<td>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.</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>FLEXIBLE EXPANDABILITY AND RELIABILITY</td>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>SECURE AND RELIABLE</td>
<td>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.</td>
</tr>
<tr>
<td>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, …).</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>AGILE INFRASTRUCTURE MANAGEMENT</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>
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</table>

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.
Technical details

**PRIMERGY RX4770 M6**

<table>
<thead>
<tr>
<th>Base unit</th>
<th>PRIMERGY RX4770 M6</th>
<th>PRIMERGY RX4770 M6</th>
<th>PRIMERGY RX4770 M6</th>
<th>PRIMERGY RX4770 M6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing types</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
<td>Rack</td>
</tr>
<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>
</tr>
<tr>
<td>Product Type</td>
<td>Quad Socket Rack Server</td>
<td>Quad Socket Rack Server</td>
<td>Quad Socket Rack Server</td>
<td>Quad Socket Rack Server</td>
</tr>
<tr>
<td>Notes</td>
<td>Platform Firmware Resilience Model</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mainboard**

- Mainboard type: D3892
- Chipset: Intel® C621A
- 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, 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, 2,667 MHz, 150 W, AVX Base 2.00 GHz, AVX Turbo 3.20 GHz)
- **Intel® Xeon® Gold 5328H** (16C, 2.80 GHz, TLC: 22 MB, Turbo: 3.70 GHz, 10.4 GT/s, 2,933 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, 2,933 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, 2,933 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, 2,933 MHz, 150 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, 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, 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, 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, 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, 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, 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, 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, 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.
<table>
<thead>
<tr>
<th>Standard memory modules (for use in combination with non-volatile memory modules)</th>
<th>192 GB (6 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>384 GB (6 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4</td>
</tr>
<tr>
<td></td>
<td>384 GB (6 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4</td>
</tr>
<tr>
<td></td>
<td>768 GB (6 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4</td>
</tr>
<tr>
<td>Standard memory modules</td>
<td>8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx8</td>
</tr>
<tr>
<td></td>
<td>128 GB (1 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, LRDIMM, 4Rx4</td>
</tr>
<tr>
<td></td>
<td>128 GB (1 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4</td>
</tr>
<tr>
<td></td>
<td>16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 8Rx4</td>
</tr>
<tr>
<td></td>
<td>16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, 1Rx8</td>
</tr>
<tr>
<td></td>
<td>256 GB (1 module(s) 256 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 8Rx4</td>
</tr>
<tr>
<td></td>
<td>32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4</td>
</tr>
<tr>
<td></td>
<td>64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4</td>
</tr>
<tr>
<td></td>
<td>64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4</td>
</tr>
<tr>
<td>Non-volatile memory modules</td>
<td>1536 GB (6 module(s) 256 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 2Rx4</td>
</tr>
<tr>
<td></td>
<td>3072 GB (6 module(s) 512 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 4Rx4</td>
</tr>
<tr>
<td></td>
<td>768 GB (6 module(s) 128 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 1Rx4</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 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 / Slot 6 & 9: PCIe Gen3 x16 @CPU2 for low profile cards
  - Slot 10 & 11: PCIe Gen3 x16 @CPU3 for full height cards

**PCI-Express 3.0 x4**

- **PCI-Express 3.0 x8**: 4 x
- **PCI-Express 3.0 x16**: 7 x

**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

- **Operating buttons**: On/off switch, NMI button, Reset button, ID button

### Status LEDs

- **At system front side**: Power (DC-On: green / AC-On: white), Global error (orange), Identification (blue), Hard disks access (green), CSS (orange)
- **At system rear side**: System status (green), 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


### Operating system release link

### Operating Systems and Virtualization Software

<table>
<thead>
<tr>
<th>Operating System notes</th>
<th>Support of other Linux derivatives on demand</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

### Infrastructure and Server Management

**DC Infrastructure Management**

<table>
<thead>
<tr>
<th>Infrastructure Manager (ISM)</th>
<th>Essential Edition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Edition</td>
<td></td>
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</tbody>
</table>

**Server Management**

<table>
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<th>Essential Edition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Edition</td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions / Weight

<table>
<thead>
<tr>
<th>Rack (W x D x H)</th>
<th>482.7 mm (Bezel) / 435 mm (Body) x 800 x 129.4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Depth Rack</td>
<td>830.7 mm</td>
</tr>
<tr>
<td>Height Unit Rack</td>
<td>3 U</td>
</tr>
<tr>
<td>19” rackmount</td>
<td>Yes</td>
</tr>
<tr>
<td>Weight</td>
<td>max. 40 kg</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**

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.

### 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

<table>
<thead>
<tr>
<th>Product</th>
<th>PRIMERGY RX4770 M6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>PS4770B</td>
</tr>
<tr>
<td>Global</td>
<td>CB</td>
</tr>
<tr>
<td></td>
<td>RoHS (Substance limitations in accordance with global RoHS regulations)</td>
</tr>
<tr>
<td></td>
<td>WEEE (Waste electrical and electronical equipment)</td>
</tr>
<tr>
<td>Europe</td>
<td>CE</td>
</tr>
<tr>
<td>USA/Canada</td>
<td>CSAc/us</td>
</tr>
<tr>
<td></td>
<td>ICES-003 / NMB-003 Class A</td>
</tr>
<tr>
<td></td>
<td>FCC Class A</td>
</tr>
<tr>
<td>Japan</td>
<td>VCCI/V3 Class A + JIS 61000-3-2</td>
</tr>
<tr>
<td>South Korea</td>
<td>KN32</td>
</tr>
<tr>
<td></td>
<td>KN35</td>
</tr>
<tr>
<td>Australia/New Zealand</td>
<td>AS/NZS CISPR32 Class A</td>
</tr>
<tr>
<td>Taiwan</td>
<td>CNS 13438 class A</td>
</tr>
<tr>
<td>Compliance link</td>
<td><a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a></td>
</tr>
<tr>
<td>Compliance notes</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>* Warning:</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
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### 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

#### SSD SAS 2.5-inch

- SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
- SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
- SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
- SSD SAS, 12 Gb/s, 400 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
- SSD SAS, 12 Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
- SSD SAS, 12 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
- SSD SAS, 12 Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
- SSD SAS, 12 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
- SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
- SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
- SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
- SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
### SSD SATA 2.5-inch

- **SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD**
- **SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.4 DWPD**
- **SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.5 DWPD**
- **SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD**
- **SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD**
- **SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**

### HDD 2.5-inch

- **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, 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, 300 GB, 10,000 rpm, 512n, 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, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise**

### PCIe SSD & SATA DOM SSD

- **PCle-SSD SFF, 750 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 30 DWPD**
- **PCle-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD**
- **PCle-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD**
- **PCle-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD**
- **PCle-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD**
- **PCle-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD**
- **PCle-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD**
- **PCle-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD**
- **PCle-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD**
- **PCle-SSD SFF, 1 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD**

### SED

- **SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED**
- **SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED**
- **SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED**
- **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, 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, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED**
- **HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED**

### SCSI / SAS Controller

- **Broadcom® PSAS CP503i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8**
RAID Controller

- pre-configured RAID1 Array for M.2 in PDUAL,
  - Fujitsu PRAID EP680i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-Pcie 16 GT/s, 16 ports int. RAID level: 0, 1, 10, 5, 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, 60, 60, 8 GB, Optional FBU based on LSI SAS3916
  - RAID level: 0, 1, 10, 5, 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, 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 8 ports int. RAID level: 0, 1, 10, 5, 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, 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 2 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

GPU computing card

- NVIDIA® A100 80GB, 6912 cores, 1935GB/s, 80GB HBM2e, N/A, PCIe 4.0 x16
- NVIDIA® A40, 48 GB, 696 GB/s, 48GB GDDR6, N/A, PCIe 4.0 x16
- NVIDIA® RTX™ A6000, 48 GB, 786 GB/s, 48 GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort
- NVIDIA® A16, 64 GB, 800GB/s (4 x200GB/s), 64GB GDDR6 (4 x16GB), N/A, PCIe 4.0 x16
- NVIDIA® A30, 933GB/s, 24GB HBM2, N/A, PCIe 4.0 x16
- NVIDIA® RTX™ A4500, 640 GB/s, 20GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort
- NVIDIA® A2, 200GB/s, 16GB GDDR6, N/A, PCIe 4.0 x8
- NVIDIA® T400 4GB, 4GB, 384 cores, 4GB, N/A, PCIe x16, 3 x miniDP
- NVIDIA® A100 40GB, 6912 cores, 1555 GB/sec, 40GB HBM2, N/A, PCIe 4.0 x16
- NVIDIA® Tesla® T4 LP, 2560 cores, 16GB GDDR6, N/A, PCIe 3.0 x16, -
- NVIDIA® Quadro® RTX 4000, 2304 cores, 8 GB GDDR6, N/A, PCIe 3.0 x16, 3 x DisplayPort
- NVIDIA® Quadro® RTX 6000, 24 GB, 4608 cores, 24 GB GDDR6, N/A, PCIe 3.0 x16, 4 x DisplayPort
- NVIDIA® Quadro® RTX 8000, 48 GB, 4608 cores, 48 GB GDDR6, N/A, PCIe 3.0 x16, 4 x DisplayPort

Graphics add on cards

- NVIDIA® Quadro® P4000, 2 GB, N/A, PCIe x16, 3 x miniDP

Rack infrastructure

- Cable Arm 2U for PRIMECENTER- and 3rd-party racks

Notes

Compatibility

If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.
Notes

| Continuity management | The product may in connection with and depending on the specific configuration include elements to support time- and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance. |
| Security | The properties of the product provide a baseline for product security and therefore end-customer IT security. However, these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation. |

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

Fujitsu products, solutions & services
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.

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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.

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Software
www.fujitsu.com/software/

More information
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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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