Data Sheet
Fujitsu Server PRIMERGY RX4770 M6 Rack Server

Backend Infrastructure Powering Digital Transformation

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 M6
The Fujitsu Server PRIMERGY 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

### Main Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER YOUR BUSINESS-CRITICAL WORKLOADS</strong></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 I/O 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 lanes (per socket) enabling a significantly higher performance and efficiency.</td>
<td>- SCALABLE APPLICATION PERFORMANCE</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 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.</td>
<td></td>
</tr>
<tr>
<td><strong>SCALABLE APPLICATION PERFORMANCE</strong></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>- 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>- FLEXIBLE EXPANDABILITY AND RELIABILITY</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 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><strong>FLEXIBLE EXPANDABILITY AND RELIABILITY</strong></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>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) 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><strong>SECURE AND RELIABLE</strong></td>
<td><strong>AGILE INFRASTRUCTURE MANAGEMENT</strong></td>
</tr>
<tr>
<td>Infrastructure Manager (ISM) provides seamless, holistic management ensuring that IT infrastructures retain the dynamic flexibility required to support ever-changing business demands. Two versions of ISM are available. ISM Advanced is a powerful, fully featured version offering comprehensive infrastructure management capabilities such as support for multiple hardware configurations, physical and virtual network connection indicators and firmware baseline updates. A free entry-level version, ISM Essential, provides essential monitoring and firmware update of all supported devices, including servers, storage and network switches.</td>
<td>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>
</tbody>
</table>
# 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</td>
<td>Resilience Model</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mainboard

<table>
<thead>
<tr>
<th>Mainboard type</th>
<th>D3892</th>
</tr>
</thead>
<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 3.40 GHz)
- Intel® Xeon® Gold 6328H (16C, 2.80 GHz, TLC: 22 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 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, Mem bus: 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, Mem bus: 2,933 MHz, 150 W, AVX Base 1.6 GHz, AVX Turbo 2.7 GHz)
- Intel® Xeon® Gold 6348H (24C, 2.30 GHz, TLC: 31 MB, Turbo: 1.9 GHz, 10.4 GT/s, Mem bus: 2,933 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
- **192 GB (12 module(s) 16 GB)** DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4
- **384 GB (6 module(s) 64 GB)** DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4
- **384 GB (12 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, 2Rx4
- **768 GB (6 module(s) 128 GB)** DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4
- **768 GB (12 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
- **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
- **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, 4Rx4
- **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+  
  - 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

- **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
### Drive bays

<table>
<thead>
<tr>
<th>Notes accessible drives</th>
<th>All possible options described in relevant system configurator.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional accessible drives</td>
<td>1 x 5.25/9.5mm for DVD-RW/Blu-ray</td>
</tr>
</tbody>
</table>

### 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16 x 2.5-inch hot-plug SAS/ SATA/PCIe</td>
</tr>
<tr>
<td></td>
<td>24 x 2.5-inch hot-plug SAS/ SATA/PCIe</td>
</tr>
<tr>
<td></td>
<td>16 x 2.5-inch hot-plug SAS/ SATA/PCIe</td>
</tr>
</tbody>
</table>

### General system information

<table>
<thead>
<tr>
<th>Number of fans</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan configuration</td>
<td>hot-plug</td>
</tr>
</tbody>
</table>

### Operating panel

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

<table>
<thead>
<tr>
<th>Status LEDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>At system front side:</td>
</tr>
<tr>
<td>Power (DC-On: green / AC-On: white)</td>
</tr>
<tr>
<td>Global error (orange)</td>
</tr>
<tr>
<td>Identification (blue)</td>
</tr>
<tr>
<td>Hard disks access (green)</td>
</tr>
<tr>
<td>CSS (orange)</td>
</tr>
<tr>
<td>At system rear side:</td>
</tr>
<tr>
<td>System status (green)</td>
</tr>
<tr>
<td>CSS (orange)</td>
</tr>
<tr>
<td>Identification (blue)</td>
</tr>
<tr>
<td>Global error (orange)</td>
</tr>
<tr>
<td>LAN connection (green)</td>
</tr>
<tr>
<td>LAN speed (green / yellow)</td>
</tr>
</tbody>
</table>

### BIOS

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

### Operating Systems and Virtualization Software

<table>
<thead>
<tr>
<th>Certified or supported operating systems and virtualization software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Server 2022 Datacenter</td>
</tr>
<tr>
<td>Windows Server 2022 Standard</td>
</tr>
<tr>
<td>Windows Server 2019 Datacenter</td>
</tr>
<tr>
<td>Windows Server 2019 Standard</td>
</tr>
<tr>
<td>Hyper-V Server 2016</td>
</tr>
<tr>
<td>Windows Server 2016 Datacenter</td>
</tr>
<tr>
<td>Windows Server 2016 Standard</td>
</tr>
<tr>
<td>VMware vSphere™ 7.0</td>
</tr>
<tr>
<td>SUSE® Linux Enterprise Server 15</td>
</tr>
<tr>
<td>SUSE® Linux Enterprise Server 12</td>
</tr>
<tr>
<td>Red Hat® Enterprise Linux 8</td>
</tr>
<tr>
<td>Red Hat® Enterprise Linux 7</td>
</tr>
<tr>
<td>Oracle® Linux 7</td>
</tr>
</tbody>
</table>
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

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

Server Management

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

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-e38e7b42f6ee

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 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) 40.6 dB(A) (idle) / 47.7 dB(A) (operating) typical Values

Sound power (LWA; 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

Power supply notes 900W hot-plug 96% (Titanuium efficiency), 200-240V, 50 / 60Hz depends on configuration
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, 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 TB, 7,200 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

<table>
<thead>
<tr>
<th>SSD Type</th>
<th>Capacity</th>
<th>Interface</th>
<th>Technology</th>
<th>Form Factor</th>
<th>Drive Writes Per Day (5 years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>960 GB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>960 GB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>960 GB</td>
<td>Mixed-use</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>960 GB</td>
<td>Mixed-use</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>480 GB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>480 GB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>240 GB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>240 GB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SATA, 6 Gb/s</td>
<td>240 GB</td>
<td>Mixed-use</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD M.2 SATA, 6 Gb/s</td>
<td>480 GB</td>
<td>non hot plug</td>
<td>enterprise</td>
<td></td>
<td>1.5 DWPD</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>960 GB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>800 GB</td>
<td>Write-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>800 GB</td>
<td>Write-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>400 GB</td>
<td>Write-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>400 GB</td>
<td>Write-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>15.36 TB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>7.68 TB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>6.4 TB</td>
<td>Mixed-use</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>3.84 TB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>3.2 TB</td>
<td>Mixed-use</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>1.92 TB</td>
<td>Read-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
<tr>
<td>SSD SAS, 12 Gb/s</td>
<td>1.6 TB</td>
<td>Write-Intensive</td>
<td>hot-plug</td>
<td>2.5-inch</td>
<td>enterprise</td>
</tr>
</tbody>
</table>
PCIe SSD & SATA DOM SSD

- **PCIe-SSD SFF, 960 GB**, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (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, 4 TB**, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
- **PCIe-SSD SFF, 3.84 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, 1.92 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)

SCSI / SAS Controller

- **Broadcom® PSAS CP600i LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8**
- **Broadcom® PSAS CP500e LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8**
- **Broadcom® PSAS CP500e FH SAS Ctrl. 12 Gbit/s PCIe 3.0 x8**
- **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

- **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, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916**
- **Fujitsu PRAID EP680e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916**
- **Fujitsu PRAID EP680e FH, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916**
- **Fujitsu PRAID EP640i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3908**
- **Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-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 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516**
- **Fujitsu PRAID CP600i LP, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, No FBU support**
- **Fujitsu 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-M64-F MMF LC-style**
- **Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPE35002-M64-F MMF LC-style**
- **Fibre Channel Host Bus Adapter 1 x Emulex LPE36000-M6-F MMF LC-style**
- **Fibre Channel Host Bus Adapter 2 x Emulex LPE36002-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**
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
- 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, 4 GB, 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 A40, 48 GB, 696 GB/s, 48GB, N/A, PCIe 4.0 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® P400, 2 GB, N/A, PCIe x16, 3 x miniDP

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

### 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
In addition to Fujitsu Server 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/

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

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

Copyrights
All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see http://www.fujitsu.com/emeia/resources/navigation/terms-of-use.html
Copyright 2022 Fujitsu LIMITED

Disclaimer
Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.
Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.