

Data Sheet

PRIMERGY RX4770 M7 Rack Server

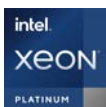
Backend Infrastructure Powering Digital Transformation

Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. 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 M7

The PRIMERGY RX4770 M7 server is a quad-socket x86 system providing superior levels of scalability in a 3U chassis. The PRIMERGY RX4770 M7 accelerates business insights and delivers unprecedented performance for in-memory database, AI solutions, Cloud services and data analytics. Powered by the 4th generation Intel® Xeon® Scalable Processors with up to 60 cores/CPU and large memory capacity provided by 64 DIMM slots in total supporting 16 TB memory, the server delivers outstanding results for demanding applications. The latest DDR5 DIMM modules with memory speeds up to 4,800 MT/s provide fast and large memory capacity. The RX4770 M7 stands for versatile resources that help to cope with changing business demands. Up to 24x 2.5" SAS/SATA/NVMe options provide enormous capacity to handle storage demanding applications. The possibility of using up to two double width, full-length GPU cards helps to accelerate data-intensive analytics and 10 PCI-Express 5.0 slots

increase bandwidth and provides sufficient expandability for even faster business 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 S6) simplify management of your server and the IT infrastructure so you can focus on your business objectives. ISM enables organizations to have centralized control over the infrastructure which includes servers, storage and networking using a single user interface. Further enhanced integrated security features and proven reliability help to ensure maximum uptime in your enterprise data center. The PRIMERGY RX4770 M7 is the ideal server for business-critical workloads, AI, large-scale virtualization, back-end and in-memory databases such as SAP S/4HANA and general data-intensive applications where the right performance, reliability and efficiency are essential.



Features & Benefits

Main Features	Benefits
<p>POWER YOUR BUSINESS-CRITICAL WORKLOADS</p> <ul style="list-style-type: none"> Wide choice of different available types of 4th Generation Intel® Xeon® Scalable processors. Each processor offers up to 60 cores, 8 memory channels, up to 3 Intel® Ultra Path Interconnect (Intel® UPI 2.0) and 10x PCI-Express 5.0 with up to 48 lanes (per socket) enabling a significantly higher performance and efficiency. 	<ul style="list-style-type: none"> PRIMERGY RX4770 M7 server provides 4 socket 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 CPU's and scale to four processors in the future saving on upfront costs. Address large data sets with up to 64 DIMMs and up to 16 TB of memory. New DDR5 DIMM memory provide fast (up to 4800 MT/s), high capacity 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 5.0 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 e data center infrastrucutre that includes servers, storage, networking, cloud management software as well as power and cooling using a single user interface.
<p>SCALABLE APPLICATION PERFORMANCE</p> <ul style="list-style-type: none"> New DDR5 RDIMM memory with up to 4800 MT/s improves workload performance and power efficiency while reducing data loss and downtime. In total, up to 16 TB main memory is available. 	
<p>FLEXIBLE EXPANDABILITY AND RELIABILITY</p> <ul style="list-style-type: none"> PRIMERGY RX4770 M7 comes with OCP v3 LAN options as well as flexible PCIe riser cards with support for up to 10 x PCIe 4.0/5.0 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. 	
<p>SECURE AND RELIABLE</p> <ul style="list-style-type: none"> 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 S6, ...). 	
<p>AGILE INFRASTRUCTURE MANAGEMENT</p> <ul style="list-style-type: none"> 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. 	

Technical details

PRIMERGY RX4770 M7

Base unit	PRIMERGY RX4770 M7	PRIMERGY RX4770 M7	PRIMERGY RX4770 M7
Housing types	Rack	Rack	Rack
Storage drive architecture	8x 2.5-inch SAS/SATA/PCIe expandable	8x 2.5-inch SAS/SATA/PCIe expandable	24x 2.5-inch SAS/SATA/PCIe
Power supply	Hot-plug	Hot-plug	Hot-plug
Product Type	Quad Socket Rack Server	Quad Socket Rack Server	Quad Socket Rack Server

Mainboard

Mainboard type	D3984
Chipset	Intel® C741
Processor quantity and type	2 or 4 x Intel® Xeon® Gold 6xxx processor / Intel® Xeon® Platinum 8xxx processor

Intel® Xeon® Gold Processor	Intel® Xeon® Gold 6416H (18C, 2.2 GHz, TLC: 45 MB, Turbo: 2.90 GHz, 16 GT/s, 4,800MHz, 165 W)
	Intel® Xeon® Gold 6418H (24C, 2.1 GHz, TLC: 60 MB, Turbo: 2.90 GHz, 16 GT/s, 4,800MHz, 185 W)
	Intel® Xeon® Gold 6434H (8C, 3.7 GHz, TLC: 22.5 MB, Turbo: 4.10 GHz, 16 GT/s, 4,800MHz, 195 W)
	Intel® Xeon® Gold 6448H (32 C, 2.4 GHz, TLC: 60 MB, Turbo: 3.20 GHz, 16 GT/s, 4,800MHz, 250 W)

Intel® Xeon® Platinum Processor	Intel® Xeon® Platinum 8444H (16C, 2.9 GHz, TLC: 45 MB, Turbo: 3.20 GHz, 16 GT/s, 4,800MHz, 270 W)
	Intel® Xeon® Platinum 8450H (28C, 2.0 GHz, TLC: 75 MB, Turbo: 2.60 GHz, 16 GT/s, 4,800MHz, 250 W)
	Intel® Xeon® Platinum 8454H (32 C, 2.1 GHz, TLC: 82.5 MB, Turbo: 2.70 GHz, 16 GT/s, 4,800MHz, 270 W)
	Intel® Xeon® Platinum 8460H (40C, 2.2 GHz, TLC: 105 MB, Turbo: 3.10 GHz, 16 GT/s, 4,800MHz, 330 W)
	Intel® Xeon® Platinum 8468H (48C, 2.1 GHz, TLC: 105 MB, Turbo: 3.00 GHz, 16 GT/s, 4,800MHz, 330 W)
	Intel® Xeon® Platinum 8490H (60C, 1.9 GHz, TLC: 112.5 MB, Turbo: 2.90 GHz, 16 GT/s, 4,800MHz, 350 W)

Processor notes	A minimum of 2 processors must be configured, no mix of different processor types
Memory slots	64 (16 DIMMs per CPU, 8 channels with 2 slots per channel)
Memory slot type	DIMM (DDR5)
Memory capacity (min. - max.)	16 GB - 16 TB
Memory protection	ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring support

Standard memory modules	128 GB (1 module(s) 128 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 4Rx4
	16 GB (1 module(s) 16 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 1Rx8
	256 GB (1 module(s) 256 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 8Rx4
	32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 1Rx4
	32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 2Rx8
	64 GB (1 module(s) 64 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 2Rx4
	96 GB (1 module(s) 96 GB) DDR5, registered, ECC, 5,600 MT/s, PC5-44800, DIMM, 2Rx4

Interfaces

USB 3.x ports	5 x USB 3.1 Gen1(USB3.0) (2x front, 2x rear, 1x internal)
Graphics (15-pin)	1 x VGA (1 x rear, 1 x front(Optional))
Serial 1 (9-pin)	1 x Optional serial RS-232-C(9pin)(Optional, not shown)
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S6 (10/100/1000 Mbit/s)

Onboard or integrated Controller

RAID controller	All hardware storage controller options are described under Components
SATA Controller	Intel® C741, 1x SATA channel for ODD, 2x SATA channel for M.2 and 8x SATA channel for HDD/SSD

Onboard or integrated Controller

LAN Controller	Dynamic LoM via OCP slot; OCPv3 compliant Optional OCP adaptors: 4 x 1 Gbit/s Ethernet (RJ45) 2 x 10 Gbit/s Ethernet (RJ45) 4 x 10 Gbit/s Ethernet (RJ45) 2 x 10 Gbit/s SFP+ 4 x 10 Gbit/s SFP+ 2 x 25 Gbit/s SFP28 4 x 25 Gbit/s SFP28 2x 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 S6, 1024 MB attached memory incl. graphics controller) IPMI 2.0 compatible
GPU / coprocessor	NVIDIA® H100
Trusted Platform Module (TPM)	Infineon / TPM 2.0 module; TCG compliant (option)

Slots

PCI-Express 5.0 x8	2 x FH
PCI-Express 5.0 x16	8 x Full height Refer to Slot Notes
PCI-Express 4.0 x16	4 x Full height Refer to Slot Notes.
Slot Notes	6 PCIe slots are supported with the first and second processor. Additional 4 PCIe slots are supported with the third and fourth processors. Slot 1&2: PCIe 4.0 or 5.0 x16 @CPU3 for full height profile cards Slot 3&4: PCIe 5.0 x16 @CPU1 for low profile cards Slot 5&7 PCIe 5.0 x16 / Slot 6&8 5.0 x8 :@CPU2 for low profile cards Slot 9&10: PCIe 4.0 or 5.0 x16 @CPU4 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)

Storage drive bays	8 x 2.5-inch hot-plug SAS/SATA/PCIe	8 x 2.5-inch hot-plug SAS/SATA/PCIe	24 x 2.5-inch hot-plug SAS/SATA/PCIe
Storage drive bay configuration	Optional expandable up to 16 storage drives	Optional expandable up to 16 storage drives	

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
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Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	Windows Server 2022 Datacenter Windows Server 2022 Standard Windows Server 2019 Datacenter Windows Server 2019 Standard VMware vSphere™ 8.0 VMware vSphere™ 7.0 SUSE® Linux Enterprise Server 15 Red Hat® Enterprise Linux 8
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
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	ServerView Agentless Service (SVAS) ServerView ESXi CIM Provider ServerView Installation Manager (SVIM) ServerView Update Manager Express (UME)
Management notes	For further information regarding ISM 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)	482.6 mm (Bezel) / 435 mm (Body) x 800 x 129.4 mm
Mounting Depth Rack	830.6 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

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)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Environment

Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	Typical configuration: 45 dB(A) (idle) / 47 dB(A) (operating) Maximum configuration: 61 dB(A) (idle) / 65 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	Typical configuration: 6.0 B (idle) / 6.2 B (operating) Maximum configuration: 7.6 B (idle) / 7.9 B (operating)
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature. Operating mode measured based on OLTIS with 50% load. *OLTIS = FUJITSU Load Profile which stresses all components of a server with a given load level.

Environmental (Base unit specific)

Operating ambient temperature	5 - 45 °C	5 - 45 °C	5 - 45 °C
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Electrical values

Power supply configuration	3 hot-plug power supplies (standard)
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	3,700 W
Apparent power (max. configuration)	3775 VA
Heat emission (max. configuration)	13320.0 kJ/h (12624.9 BTU/h)
Rated current max.	12A (100 V) / 15A (230 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; 100V range: 1030W 1600W hot-plug, 96% (Titanium efficiency), 200-240V, 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	Power Safeguard adapts system performance in case the power requirements exceeds supply limits. Platinum PSUs are only for APAC/Japan market.

Compliance

Product	PRIMERGY RX4770 M7
Model	PS4770B
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic equipment)
Europe	CE
USA/Canada	NRTLc/us FCC Class A ICES-003 / NMB-003 Class A
Japan	VCCI Class A + JIS 61000-3-2
South Korea	KC
Australia/New Zealand	RCM
Taiwan	BSMI
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
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SSD SAS 2.5-inch

SSD SAS, 22.5Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
SSD SAS, 22.5Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
SSD SAS, 22.5Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
SSD SAS, 22.5Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
SSD SAS, 22.5Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
SSD SAS, 22.5Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
SSD SAS, 22.5Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
SSD SAS, 22.5Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
SSD SAS, 22.5Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
SSD SAS, 22.5Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
SSD SAS, 22.5Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
SSD SAS, 22.5Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
SSD SAS, 22.5Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
SSD SAS, 22.5Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
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, Write-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 DWPD, SED
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 DWPD, SED
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 DWPD, SED
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 DWPD, SED
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 DWPD, SED
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 DWPD, SED
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 DWPD, SED
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 DWPD, SED
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 DWPD, SED
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, 600 GB, 10,000 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, 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, hot-plug, 2.5-inch, enterprise
PCIe SSD & SATA DOM SSD	PCIe-SSD SFF, 800 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD
	PCIe-SSD SFF, 400 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD
	PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
	PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
	PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
	PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
	PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
	PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
	PCIe-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
	PCIe-SSD SFF, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD
PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD	
SED	SSD SAS, 22.5Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED
	SSD SAS, 22.5Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
	SSD SAS, 22.5Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
	SSD SAS, 22.5Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 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	PSAS CP 2100-8i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
	Fujitsu PSAS CP 2200-16i LP Host Bus Adapter 24 Gbit/s 16 GT/s 16 ports int.
	Broadcom® PSAS CP600i LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8
	Broadcom® PSAS CP600e LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8
	Broadcom® PSAS CP600e FH SAS Ctrl. 12 Gbit/s 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, 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
	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 SAS3516
	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 EP 3258-16i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, NVMe-PCIe 16 GT/s, 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU
	Fujitsu PRAID EP 3254-8i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU
	Fujitsu PRAID EP 3252-8i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU
	Broadcom® PRAID CP600i LP, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 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 Qlogic QLE2870-FJ-BK MMF LC-style
	Fibre Channel Host Bus Adapter 2 x Qlogic QLE2872-FJ-BK 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 Emulex LPE36000-M64-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 200Gb/s PCIe x16 QSFP for the US market max. one IB HCA 200Gb controller can be installed (Mellanox)
GPU computing card	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
	-, xxxGB/s, 24GB GDDR6, N/A, PCIe 4.0 x16
	-, 48 GB, 864 GB/s, 48GB GDDR6, N/A, PCIe 4.0 x16
	NVIDIA® RTX™ 6000 Ada, 48 GB, 786 GB/s, 48 GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort
	NVIDIA® T400 4GB, 4 GB, 384 cores, 4GB, 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.
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.
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	
Manufacturer warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM
Product Support - the perfect extension	

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/
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

More information

Fujitsu products, solutions & services

In addition to PRIMERGY RX4770 M7, 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.

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More information

Learn more about PRIMERGY RX4770 M7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
<http://www.fujitsu.com/emeia/products/computing/servers/primergy/rack/rx4770m6/>

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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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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.

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