# Data Sheet
# FUJITSU Server PRIMERGY RX1330 M1 rack server

## Small in size and low in cost – rich in optional features

FUJITSU Server PRIMERGY will give you the servers you need to power any workload and changing business requirements. As business processes expand so does the need for applications. Each has its own resource footprint, so you need a way to optimize your computing to better serve your users. PRIMERGY systems will help you match your computing capabilities to your business priorities with our complete portfolio of expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as hyper-converged scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, provide more agility in daily operations, and integrate seamlessly to let help you concentrate on core business functions.

FUJITSU Server PRIMERGY RX rack systems are versatile rack-optimized servers providing best-in-class performance and energy efficiency, and thus form the "standard" in each data center. PRIMERGY RX servers deliver more than 20 years of development and production know-how resulting in extremely low failure rates below market average, and lead to continuous operations and outstanding hardware availability.

### PRIMERGY RX1330 M1

The FUJITSU Server PRIMERGY RX1330 M1 is a mono-socket rack server designed to provide a solution for small budgets, yet enabling a rich set of optional expansions to best meet individual demands. Its usage patterns cover file, infrastructure and communication applications by delivering up to 32 GB RAM, up to 3 PCIe slots and up to 10 hard disk drives. Moreover, this 1U server allows for diverse individual configurations with optional features, such as hot-plug power supply units, redundant fans, RAID controller and support for pGFX integrated server graphics for fast media processing. By delivering high energy efficiency and operation in higher ambient temperature thanks to optional Cool-safe® Advanced thermal Design, the PRIMERGY RX1330 M1 also contributes to very low operational costs. ServerView™ suite and remote management features (iRMC S4) simplify the administration.

# Features & Benefits

| Main Features | Benefits |
|---|---|
| **Low in costs** | |
| ■ High energy efficient | ■ Clear reduction in energy costs |
| ■ Fujitsu ServerView™ suite and onboard remote management features (iRMC S4) enables centralized management | ■ Comprehensive and simplified management reduce time for standard administration tasks |
| ■ Cool-safe® Advanced Thermal Design enables operation in a higher ambient temperature | ■ Each additional degree means approximately 5-6 percent less energy costs for air-conditioning |
| **Flexible foundation for infrastructure tasks** | |
| ■ Intel Xeon processor E3-1200 v3 and up to 32 GB RAM, up to 3 PCIe slots and up to 10 storage drives | ■ Cost-optimized foundation for file, infrastructure and communication applications |
| ■ Free choice: Up to 4x 3.5-inch or up to 10x 2.5-inch storage drives | ■ Flexible to meet the individual demand |
| ■ Optional pGFX Server Graphics | ■ Huge storage capacity fulfills requirements of storage demanding application or services |
| | ■ Unprecedented media transcoding performance |
| **Rich set of optional features** | |
| ■ Choice of Intel Xeon E3 v3, Core i3, Celeron and Pentium processors | ■ Perfectly meet the performance requirements with available budget |
| ■ Modular RAID controllers | ■ Match redundancy requirements with available budget |
| ■ Redundant fans | |
| ■ Hot-plug and redundant power supply (PSU) with 80 PLUS platinum energy efficiency (94 %) | |
| ■ Full-height PCIe slot | |
| **Integrated UPS - Easy & reliable** | |
| ■ The Fujitsu FJBU internal battery backup is an alternative for classical UPS devices | ■ Keeps the server running during short blackouts or voltage fluctuations and enables a graceful shutdown |
| ■ Compact battery unit that fits into modular PSU slot | ■ Same life time as the server – no maintenance necessary |
| ■ Ni-MH battery allows for a very long life time (5 years) | ■ Easy and clean setup: no cabling, no separate device |
| ■ Full integration into server management environment | |

# Technical details

| PRIMERGY RX1330 M1 | | | | | |
|---|---|---|---|---|---|
| **Base unit** | RX1330 M1 LFF | RX1330 M1 LFF | RX1330 M1 SFF | RX1330 M1 SFF | RX1330 M1 SFF 10xSFF |
| **Housing types** | Rack | Rack | Rack | Rack | Rack |
| **Storage drive architecture** | 3.5-inch SAS/SATA | 3.5-inch SAS/SATA | 2.5-inch SAS/SATA | 2.5-inch SAS/SATA | 2.5-inch SAS/SATA |
| **Power supply** | Standard | Hot-plug | Standard | Hot-plug | Hot-plug |
| **Product Type** | Mono Socket Rack Server | Mono Socket Rack Server | Mono Socket Rack Server | Mono Socket Rack Server | Mono Socket Rack Server |

| Mainboard | |
|---|---|
| **Mainboard type** | D3229 |
| **Chipset** | Intel® C226 |
| **Processor quantity and type** | 1 x Intel® Xeon® processor E3-1200 v3 product family-based platform / Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Celeron® processor |

| Processor |
|---|
| Intel® Celeron® processor G1820 (2C/2T, 2.70 GHz, TLC: 2 MB, Turbo: No, Mem bus: 1,333 MHz, 54 W) |
| Intel® Core™ i3-4330 processor (2C/4T, 3.50 GHz, TLC: 4 MB, Turbo: No, Mem bus: 1,600 MHz, 54 W) |
| Intel® Pentium® processor G3420 (2C/2T, 3.20 GHz, TLC: 3 MB, Turbo: No, Mem bus: 1,600 MHz, 54 W) |
| Intel® Xeon® processor E3-1220v3 (4C/4T, 3.10 GHz, TLC: 8 MB, Turbo: 3.30 GHz, Mem bus: 1,600 MHz, 80 W) |
| Intel® Xeon® processor E3-1231v3 (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: 3.60 GHz, Mem bus: 1,600 MHz, 80 W) |
| Intel® Xeon® processor E3-1240Lv3 (4C/8T, 2.00 GHz, TLC: 8 MB, Turbo: 2.80 GHz, Mem bus: 1,600 MHz, 25 W) |
| Intel® Xeon® processor E3-1241v3 (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: 3.70 GHz, Mem bus: 1,600 MHz, 80 W) |
| Intel® Xeon® processor E3-1271v3 (4C/8T, 3.60 GHz, TLC: 8 MB, Turbo: 3.80 GHz, Mem bus: 1,600 MHz, 80 W) |
| Intel® Xeon® processor E3-1275Lv3 (4C/8T, 2.70 GHz, TLC: 8 MB, Turbo: 3.30 GHz, Mem bus: 1,600 MHz, 45 W) |
| Intel® Xeon® processor E3-1281v3 (4C/8T, 3.70 GHz, TLC: 8 MB, Turbo: 3.90 GHz, Mem bus: 1,600 MHz, 82 W) |

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|---|---|
| **Memory slots** | 4 (2 banks with 2 DIMMs each) |
| **Memory slot type** | DIMM (DDR3) UDIMM |
| **Memory capacity (min. - max.)** | 2 GB - 32 GB |
| **Memory protection** | ECC |
| **Memory notes** | Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same. |
| **Memory options** | 4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM, single rank |
| | 8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank |

| Interfaces | |
|---|---|
| **USB 2.0 ports** | 4 x (2x rear, 2x internal via UFM) (10x SFF base unit: 1x front, 2x rear, 2x internal) |
| **USB 3.0 ports** | 4 x (2x front, 2x rear) (10x SFF base unit: 2x rear) |
| **Graphics (15-pin)** | 1 x VGA (15-pin) / optional 1 x front VGA (not for 10x 2,5" HDD base unit) |
| **Serial connection** | 1 x serial RS-232-C, usable for iRMC S4 or system or shared |
| **LAN / Ethernet (RJ-45)** | 2 x Gbit/s Ethernet |
| **Management LAN (RJ45)** | 1 x dedicated management LAN port for iRMC S4 (10/100/1000 Mbit/s)<br>Management LAN traffic can be switched to shared onboard Gbit LAN port |

| Onboard or integrated Controller | |
|---|---|
| **RAID controller** | Integrated RAID 0/1 or RAID 5/6 controller (option)<br>All hardware storage controller options are described under Components |
| **SATA Controller** | Intel® C226, 1 port used for accessible drive<br>4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux; |
| **LAN Controller** | Intel® i210 onboard. 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration). iSCSI, PXE-Boot and WoL are supported |
| **Remote management controller** | Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller)<br>IPMI 2.0 compatible |
| **Trusted Platform Module (TPM)** | Infineon / TPM 1.2 module; TCG compliant (option) |

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|---|---|---|---|---|
| **Onboard or integrated Controller (Base unit specific)** | | | | |
| **RAID controller** | 4 port SATA with RAID 0/1/10 for HDDs | | 4 port SATA with RAID 0/1/10 for HDDs | |
| **SATA Controller** | 4-port SATA 6Gb with RAID 0, 1, 10 | | 4-port SATA 3GB with RAID 0, 1, 10 | |
| **SATA controller type notes** | for hot-plug SATA hard disks | | for hot-plug SATA hard disks | |
| **Slots** | | | | |
| **PCI-Express 3.0 x8** | 2 x Low profile Length 175mm; PCIe slot#1 = dedicated Modular RAID slot | | | |
| **PCI-Express 2.0 x4 (mech. x8)** | 1 x Low profile | | | |
| **Slot Notes** | Optional support of 1x full height PCIe Gen3 x8 card, instead of 1x PCIe Gen2 x4 and 1x PCIe Gen3 x8 | | | |
| **Drive bays** | | | | |
| **Storage drive bays** | 4/8 x 2.5-inch hot-plug SAS/SATA or 4x 3.5-inch hot-plug SAS/SATA or 10 x 2.5-inch hot-plug SAS/SATA as soon as released | | | |
| **Accessible drive bays** | 1 x 5.25/0.4-inch for CD-RW/DVD | | | |
| **Notes accessible drives** | Following limitations applies to 10x 2.5-inch HDD base unit: No CD-RW/DVD, 1x USB 2.0 at the front, no front VGA | | | |
| **Drive bays (Base unit specific)** | | | | |
| **Storage drive bays** | Max. 4x 3.5-inch | Max. 8x 2.5-inch | Max. 10x 2.5-inch | |
| **Fan Configuration** | | | | |
| **Number of fans** | 4 | | | |
| **Fan notes** | 4 fans in combination with standard power supply or 5 fans in combination with hot-plug PSU base unit for 1+4 redundancy. | | | |
| **Number of fans** | 4 | 5 | 4 | 5 |
| **Fan configuration** | 4 standard fan | 5 redundant fan | 4 standard fan | 5 redundant fan |
| **Fan notes** | non redundant / non hot-plug | redundant / non hot-plug | non redundant / non hot-plug | redundant / non hot-plug |
| **Operating panel** | | | | |
| **Operating buttons** | On/off switch<br>NMI button<br>Reset button | | | |
| **Status LEDs** | System status (orange)<br>Identification (blue)<br>Hard disks access (green)<br>Power (green)<br>At system rear side:<br>System status (orange)<br>Identification (blue)<br>LAN connection (green)<br>LAN speed (green / yellow) | | | |
| **BIOS** | | | | |
| **BIOS features** | ROM based setup utility<br>Recovery BIOS<br>BIOS settings save and restore<br>Local BIOS update from USB device<br>Online update tools for main Windows and Linux versions<br>Local and remote update via ServerView Update Manager<br>Remote PXE boot support<br>Remote iSCSI boot support | | | |

## Operating Systems and Virtualization Software

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|---|---|
| **Certified or supported operating systems and virtualization software** | Microsoft® Hyper-V Server 2012 R2 |
| | Microsoft® Windows Server® 2012 R2 Datacenter |
| | Microsoft® Windows Server® 2012 R2 Standard |
| | Microsoft® Windows Server® 2012 R2 Essentials |
| | Microsoft® Windows Server® 2012 R2 Foundation |
| | Microsoft® Windows Storage Server 2012 R2 Standard |
| | Microsoft® Hyper-V Server 2012 |
| | Microsoft® Windows Server® 2012 Datacenter |
| | Microsoft® Windows Server® 2012 Standard |
| | Microsoft® Windows Server® 2012 Essentials |
| | Microsoft® Windows Server® 2012 Foundation |
| | Microsoft® Windows Storage Server 2012 Standard |
| | Microsoft® Hyper-V™ Server 2008 R2 |
| | Microsoft® Windows Server® 2008 R2 Datacenter |
| | Microsoft® Windows Server® 2008 R2 Enterprise |
| | Microsoft® Windows Server® 2008 R2 Standard |
| | Microsoft® Windows Server® 2008 R2 Foundation |
| | VMware vSphere™ 6.0 |
| | VMware vSphere™ 5.5 |
| | VMware vSphere™ 5.1 Embedded |
| | VMware vSphere™ 5.1 |
| | SUSE® Linux Enterprise Server 12 |
| | SUSE® Linux Enterprise Server 11 |
| | Red Hat® Enterprise Linux 7 |
| | Red Hat® Enterprise Linux 6 |
| **Operating system release link** | http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473 |
| **Operating system notes** | VMware ESX hints:<br>- SATA RAID is not supported<br>- Storing virtual machines locally requires a SAS RAID Controller<br>Support of other Linux derivatives on demand<br>Red Hat® certification starting with version 5.8 / 6.4. |

## Server Management

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|---|---|
| **Standard** | ServerView Suite - Deploy<br>Installation Manager<br>Scripting Toolkit<br>ServerView Suite - Control<br>Operations Manager incl. PDA and ASR & R<br>(Prefailure and Analysis; Automatic Server Recovery and Restart)<br>Agents and CIM Providers / Agentless Service<br>System Monitor<br>RAID Manager<br>Capacity Management<br>Power Management<br>Storage Support<br>ServerView Suite - Maintain<br>Remote Management (iRMC in combination with Intel® Node Manager)<br>Update Management (BIOS, Firmware, Windows Drivers, Agents and CIM Providers)<br>Performance Measurement<br>Asset Management<br>Online Diagnostics<br>ServerView Suite - Integrate<br>Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM<br>Deployment tools and others |

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| **Server Management** | |
| **Option** | ServerView embedded Lifecycle Management<br>Enhanced management functionalities for simplified, highly integrated and automated management processes<br>ServerView Suite - Maintain<br>iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media<br>ServerView Suite - Dynamize<br>Virtual-IO Manager (VIOM) |
| **Server Management notes** | Regarding dependencies for ServerView Suite software products see dedicated product data sheets. |
| **Dimensions / Weight** | |
| **Rack (W x D x H)** | 482.6 mm (Bezel) / 435.4 mm (Body) x 572 x 42.8 mm |
| **Height Unit Rack** | 1 U |
| **Mounting Cable depth rack** | 200 mm cable depth |
| **Weight** | up to 13 kg |
| **Weight notes** | Actual weight may vary depending on configuration |
| **Rack integration kit** | Rack integration kit as option |
| **Environment** | |
| **Operating ambient temperature** | 5 - 40 °C (41 - 104 °F) |
| **Operating temperature note** | Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed information see relevant system configurator. |
| **Operating relative humidity** | 10 - 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 |
| **Sound pressure (LpAm)** | 24 / 34 dB(A) (min / max idle), 28.5 / 34 db(A) (min / max operating) |
| **Sound power (LWAd; 1B = 10dB)** | 3.7 / 5.1 B (min / max idle), 4.2 / 5.5 B (min / max operating) |
| **Noise notes** | Noise emissions depends on operation modes, system configuration and ambient temperature. |
| **Electrical values** | |
| **Power supply configuration** | 1x standard power supply or1x hot-plug power supply or 2x hot plug power supplies for redundancy depending on model |
| **Hot-plug power supply redundancy** | Optional |
| **Active power (max. configuration)** | 197 W |
| **Apparent power (max. configuration)** | 199 VA |
| **Heat emission (max. configuration)** | 709.2 kJ/h (672.2 BTU/h) |
| **Rated current max.** | 4.0 A (100 V) / 2.0 A (240 V) |
| **Active power note** | To estimate the power consumption of different configurations use the Power Calculator of the System Architect: http://configurator.ts.fujitsu.com/public/ |
| **Power supply** | 300W standard, 92% (Gold efficiency), 100-240V, 50 / 60Hz<br>450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz |
| **Power supply notes** | Power Safeguard adapts system performance in case the power requirements exceeds supply limits.<br>!96% Titanium Power supply unit is only released for 200-240V |
| **Battery backup** | Fujitsu Battery Unit 380W, 12V (as option) |
| **Compliance** | |
| **Global** | CB<br>RoHS (Substance limitations in accordance with global RoHS regulations)<br>WEEE (Waste electrical and electronical equipment) |
| **Germany** | GS |
| **Europe** | CE |
| **USA/Canada** | CSAc/us<br>ULc/us<br>FCC Class A |
| **Japan** | VCCI:V3 Class A + JIS 61000-3-2 |
| **Russia** | GOST |
| **South Korea** | KC |
| **China** | CCC |
| **Australia/New Zealand** | C-Tick |

| Compliance | |
|---|---|
| **Taiwan** | BSMI |
| **Compliance link** | http://globalsp.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.<br>* Warning:<br>This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. |

# Components

| | |
|---|---|
| Optical drives | Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim, SATA I |
| | DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I |
| Hard disk drives | |
| | HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, 512e, hot-plug, 3.5-inch, economic |
| | HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, 512e, hot-plug, 3.5-inch, economic |
| | HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 3 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 3.5-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, 3.5-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, 6 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 450 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 146 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 6 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise |

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|---|---|
| **Solid-State-Drive** | SSD SATA, 6 Gb/s, 800 GB, Read-Intensive Endurance, hot-plug, 3.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 800 GB, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 480 GB, Read-Intensive Endurance, hot-plug, 3.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 480 GB, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 240 GB, Read-Intensive Endurance, hot-plug, 3.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 240 GB, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 200 GB, Mainstream Endurance, hot-plug, 3.5-inch, enterprise |
| | SSD SATA, 6 Gb/s, 200 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise |
| | SSD SATA, 6 Gb/s, 120 GB, Read-Intensive Endurance, hot-plug, 3.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 120 GB, Read-Intensive Endurance, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 100 GB, Mainstream Endurance, hot-plug, 3.5-inch, enterprise |
| | SSD SATA, 6 Gb/s, 100 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise |
| | |
| | DOM SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 345TBW (Seq. write) |
| | DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 172TBW (Seq. write) |
| **SCSI / SAS Controller** | LSI PSAS CP400e SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8 |
| | Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8 |
| **RAID Controller** | RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int.<br>RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache |
| | Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 10, No BBU support |
| | Fujitsu PRAID EP420i for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108 |
| | Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108 |
| | Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108 |
| | Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 1E, 10, 5, 50, No FBU support |
| **Fibre Channel controller** | Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Qlogic QLE2560 MMF LC-style |
| | Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Qlogic QLE2562 MMF LC-style |
| | Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Emulex LPe1250 MMF LC-style |
| | Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Emulex LPe12002 MMF LC-style |
| **Communication, Network** | Ethernet Ctrl. 1 x 1 Gbit/s PCIe 1.1 x1 RJ45 ( Intel® ) |
| | Ethernet Ctrl. 1 x 1 Gbit/s PCIe 2.1 x1 RJ45 ( Intel® ) |
| | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 SFP+ ( Fujitsu ) |
| | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 RJ45 ( Intel® ) |
| | Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 ( Intel® ) |
| | Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 ( Intel® ) |
| **Graphics add on cards** | NVIDIA® NVS™315 LP, PCIe x16, 2x DVI/VGA |
| **Rack infrastructure** | Rackmount kit full extraction (665mm), tool less mounting, length variable 559-914mm |
| | Rackmount kit full extraction (665mm), tool less mounting, length variable 559-914mm |
| | Cable Management 1U for PRIMECENTER- and 3rd-party racks |
| **Warranty** | |
| **Warranty period** | 1 year |
| **Warranty type** | Onsite warranty |
| **Warranty Terms & Conditions** | www.fujitsu.com/support |

## Warranty

### Product Support Services - the perfect extension

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|---|---|
| **Support Pack Options** | Globally available in major business areas:<br>9x5, Next Business Day Onsite Response Time<br>9x5, 4h Onsite Response Time<br>24x7, 4h Onsite Response Time |
| **Recommended Service** | 24x7 Onsite Service with 4h Onsite Response Time |
| **Service Lifecycle** | 5 years after end of product life |
| **Service Weblink** | http://www.fujitsu.com/fts/products/product-support-services/ |

# More information

## Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY RX1330 M1, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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

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

**Software**
www.fujitsu.com/software/

## More information

Learn more about Fujitsu PRIMERGY RX1330 M1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://www.fujitsu.com/primergy

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
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