FUJITSU

# Data Sheet
## FUJITSU Server PRIMERGY TX1320 M3 Tower Server

The smallest full-fledged server for growing your business

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.

Perfect for small and medium businesses as well as branch offices, FUJITSU Server PRIMERGY TX tower systems are robust and cost-efficient servers by providing rock solid reliability. Additionally they are characterized by simple IT operations, low power consumption and quiet operation so that they can be handled by non-technically trained staff and can be used in standard office environments. By the way: Almost all PRIMERGY TX servers can be rack-mounted to offer best flexibility.

### PRIMERGY TX1320 M3
The FUJITSU Server PRIMERGY TX1320 M3 server is perfect for Small and Medium Enterprises (SME), space constrained environments, retail premises or branch offices which need full server functionality and silent operation. The ultra-compact, performance oriented mono-socket design supports the latest Intel® Xeon ® E3-1200 v6 product family plus up to 64GB RAM, to boost performance for standard infrastructure workloads such as file, print, web and collaborative ones such

as email, plus business applications. Affordable Intel® Core™ i3, Pentium® and Celeron® processor options are also available. Institutions with legal requirements such as medical, Governmental, legal, or financial offices can benefit from the server's secure, robust storage and transmission features which include up to eight high quality 2.5-inch hard drives, powerful RAID controllers, versatile and affordable backup and networking options plus TPM 2.0 capability. High efficiency (94%) redundant power supplies and the innovative Fujitsu Battery Backup Unit enhance reliability and protect customer investment. This ultra-compact, silent server is designed for deployment flexibility – it can be deployed in offices, on rack shelves and even on desks. The server also features powerful management capabilities with the iRMC S4 and the Fujitsu ServerView suite, allowing it to be easily managed across its entire lifecycle, including deployment, installation and administration.

# Features & Benefits

| Main Features | Benefits |
|---|---|
| **Ultra-compact server with full featured performance** | |
| ■ Wide choice of the latest Intel® Xeon ® E3-1200 v6 product family processors for optimal compute. Affordable Core™ i3, Pentium® and Celeron® options are also available. Up to 64 GB DDR4 ECC memory (4 DIMMs) is supported for high-speed, reliable performance | ■ Power packed performance for Small and Medium Enterprises, retail premises which have space challenges and need the latest compute and memory technology for their specific requirements. Workloads can span classic infrastructure workloads (file, print, web), collaborative (email), or more demanding industry specific applications |
| ■ Enhanced, reliable storage with Brand new design featuring slim HDD frames. The server can support up to 2x 3.5-inch (SATA) or 8x hot-plug 2.5-inch (SAS/SATA) drives plus RDX backup. Powerful SAS 3.0 RAID Controllers with 1/2 GB cache are available (even more advanced units are on the roadmap) | ■ A server which features the right mix of capacity (up to 20TB), and reliable storage with backup capability. Ideal for customers with large dataset requirements, for data consolidation needs or for institutions with legal requirements which need secure, reliable storage |
| ■ Security optimized design with TPM 2.0 support plus Fujitsu's secure 3-way lock for server access | ■ Adds security capabilities to protect your valuable enterprise data from unauthorized access. Additional networking options are available for enhanced business specific needs |
| ■ Redundant (2x1GbE) LAN as standard. Higher connectivity options also available | ■ Reliable data connectivity out of the box, with advanced options (10GbE) for more demanding requirements already available |
| ■ Future ready with 4x PCIe Gen3 slots | ■ The server grows in synch with your business. Upgrade the server with Fujitsu RAID controllers for reliable data storage  (high grade SAS 3.0 with up to 1/2 GB cache, more advanced units on the roadmap) or networking cards (including 10GbE options) for seamless data transmission |
| **Energy efficiency hand in hand with enhanced reliability** | |
| ■ High efficiency 450W power supplies (94% efficiency) are now available with both hot-plug capability and  redundancy | ■ Good for the environment, and your business – the high efficiency, redundant power supplies offer enhanced reliability and lower energy expenditure |
| ■ Fujitsu Battery Backup Unit, an optional Internal UPS in modular PSU formfactor, 5 years lifetime, fully integrated | ■ The Battery Backup Unit protects your valuable investment by supporting safe power down and conflict free power up in case of power loss |
| **The most compact server in its class - deploy anywhere** | |
| ■ Ultra-small form factor improved with the all new design | ■ Fits almost everywhere and saves space - ideal for small offices, at point of sales or even in compact racks or placed on shelves |
| ■ Low noise emissions by design, with optimized air flow and Fujitsu's Coolsafe ® Advanced Thermal Design technology | ■ Silent Operation and expanded range of operation (5 ℃ to 40 ℃). The server can be used in offices, showrooms and even be placed on desks |
| **Full server management features and easy accessibility** | |
| ■ Comprehensive software management suite available with the iRMC S4 and the Fujitsu ServerView Suite | ■ Reduce your IT administrator's burden by simplifying server management via a comprehensive software suite which can include the iRMC S4 and the Fujitsu ServerView suite, which includes tools for installation and deployment, permanent status monitoring and control |
| ■ Screw-less chassis with hot-plug 2.5-inch drives, hot-plug power supplies and "Easy Rails" for 3.5-inch storage disks | ■ Enhanced serviceability with easy, fast and comfortable access to critical components |

# Technical details

## PRIMERGY TX1320 M3

| | | | |
|---|---|---|---|
| Base unit | PRIMERGY TX1320 M3 SFF/Std. PSU | PRIMERGY TX1320 M3 SFF/Red. PSU | PRIMERGY TX1320 M3 LFF/Std. PSU |
| Housing types | Ultra-compact form-factor | Ultra-compact form-factor | Ultra-compact form-factor |
| Storage drive architecture | 2.5-inch | 2.5-inch | 3.5-inch |

### Mainboard

| | |
|---|---|
| Mainboard type | D3373 |
| Chipset | Intel® C236 |
| Processor quantity and type | 1 x Intel® Xeon® processor E3-1200 v6 product family / Intel® Core™ i3 processor / Intel® Pentium® processor |

| | |
|---|---|
| Processor | Intel® Celeron® processor G3930 (2C/2T, 2.90 GHz, TLC: 2 MB, Turbo: No, 2,133 MHz, 51 W) |
| | Intel® Core™ i3-7100 processor (2C/4T, 3.90 GHz, TLC: 3 MB, Turbo: No, 2,400 MHz, 51 W) |
| | Intel® Pentium® processor G4560 (2C/4T, 3.50 GHz, TLC: 3 MB, Turbo: No, 2,400 MHz, 54 W) |
| | Intel® Xeon® processor E3-1220v6 (4C/4T, 3.00 GHz, TLC: 8 MB, Turbo: 3.30 GHz, 2,400 MHz, 72 W) |
| | Intel® Xeon® processor E3-1225v6 (4C/4T, 3.30 GHz, TLC: 8 MB, Turbo: 3.50 GHz, 2,400 MHz, 73 W) |
| | Intel® Xeon® processor E3-1230v6 (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: 3.70 GHz, 2,400 MHz, 72 W) |
| | Intel® Xeon® processor E3-1240v6 (4C/8T, 3.70 GHz, TLC: 8 MB, Turbo: 3.90 GHz, 2,400 MHz, 72 W) |
| | Intel® Xeon® processor E3-1270v6 (4C/8T, 3.80 GHz, TLC: 8 MB, Turbo: 4.00 GHz, 2,400 MHz, 72 W) |
| | Intel® Xeon® processor E3-1280v6 (4C/8T, 3.90 GHz, TLC: 8 MB, Turbo: 4.00 GHz, 2,400 MHz, 72 W) |

| | |
|---|---|
| Memory slots | 4 |
| Memory slot type | DIMM (DDR4) |
| Memory capacity (min. - max.) | 4 GB - 64 GB |
| Memory protection | ECC |
| Memory notes | Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible. |

| | |
|---|---|
| Memory options | 4 GB (1 module(s) 4 GB) DDR4, unbuffered, ECC, 2,400 MHz, PC4-2400, DIMM, 1Rx8 |
| | 8 GB (1 module(s) 8 GB) DDR4, unbuffered, ECC, 2,400 MHz, PC4-2400, DIMM, 1Rx8 |
| | 16 GB (1 module(s) 16 GB) DDR4, unbuffered, ECC, 2,400 MHz, PC4-2400, DIMM, 2Rx8 |

| | |
|---|---|
| Memory modules notes | 2,400 MHz memory modules |

### Interfaces

| | |
|---|---|
| USB 2.0 ports | 5 (4x external  rear, 1x internal for UFM, no USB wakeup supported) |
| USB 3.0 ports | 5 (2x external  rear, 2x external front, 1x internal) |
| Graphics (15-pin) | 1 analog graphics interface derived from iRMC (up to 1600x1200 or 1920x1080 at 16bpp) |
| Serial 1 (9-pin) | 1 serial RS-232-C |
| LAN / Ethernet | 2 x1 Gb/s Ethernet; RJ45 |
| Management LAN (RJ45) | 1 x dedicated management LAN port for iRMC S4  (10/100/1000 Mbit/s) Management LAN traffic can be switched to shared onboard Gbit LAN port |

### Onboard or integrated Controller

| | |
|---|---|
| RAID controller | Optionally integrated RAID 0/1 or RAID 5/6 controller for SAS base units (occupies one PCIe slot). All hardware storage controller options are described under Components |
| SATA Controller | Intel® C236, 2 ports used for accessible drives |
| SATA controller type notes | 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. iSCSI, PXE-Boot and WoL are supported |
| Remote management controller | Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller) IPMI 2.0 compatible |
| Trusted Platform Module (TPM) | Infineon / TPM 1.2 or TPM 2.0 module; TCG compliant (option) |

### Slots

| | |
|---|---|
| PCI-Express 3.0 x1 (mech. x4) | 1 x Low profile |
| PCI-Express 3.0 x4 | 1 x Low profile |
| PCI-Express 3.0 x8 | 2 x Low profile notched |

## Slots

| | |
|---|---|
| Slot Notes | In SAS configuration 1x PCI-Express occupied by modular RAID controller. |

## Drive bays

| | | |
|---|---|---|
| Storage drive bays | 3.5-inch non hot-plug  or 2.5-inch hot-plug SAS/SATA | |
| Storage drive bay configuration | Not upgradeable in the field. | |
| Accessible drive bays | 1 x 3.5/1.6-inch for backup devices<br>1 x 5.25/0.5-inch for CD-RW/DVD | |
| Storage drive bays | Max. 8x (4x + 4x)  x 2.5-inch hot-plug | Max. 2  x 3.5-inch non hot-plug SATA |

## Fan Configuration

| | |
|---|---|
| Number of fans | 3 |
| Fan notes | Processor fan, rear fan, drive fan, additional drive fan if 8x HDD extension is used |

## Operating panel

| | |
|---|---|
| Operating buttons | On/off switch<br>NMI button<br>Reset button |
| Status LEDs | System status (orange / yellow)<br>Identification (blue)<br>Hard disks access (green)<br>Power (orange / green)<br>At system rear side:<br>System status (orange / yellow)<br>Identification (blue)<br>LAN connection (green)<br>LAN speed (green / yellow)<br>CSS (yellow) |

## Operating Systems and Virtualization Software

| | |
|---|---|
| Certified or supported operating systems and virtualization software | Microsoft® Hyper-V Server 2012 R2 |
| | Microsoft® Hyper-V Server 2016 |
| | Microsoft® Windows Server® 2012 R2 Datacenter |
| | Microsoft® Windows Server® 2016 Datacenter |
| | Microsoft® Windows Server® 2012 R2 Standard |
| | Microsoft® Windows Server® 2016 Standard |
| | Microsoft® Windows Server® 2012 R2 Essentials |
| | Microsoft® Windows Server® 2016 Essentials |
| | Microsoft® Windows Server® 2012 R2 Foundation |
| | Microsoft® Windows Storage Server 2012 R2 Standard |
| | Microsoft® Windows Storage Server 2016 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 |
| | VMware vSphere™ 6.0 |
| | SUSE® Linux Enterprise Server 12 |
| | Red Hat® Enterprise Linux 7 |
| 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 |

## Server Management

| | |
|---|---|
| Standard | ServerView Suite - Deploy |
| |     Installation Manager |
| |     Scripting Toolkit |
| | ServerView Suite - Control |
| |     Operations Manager incl. PDA and ASR & R |
| |     (Prefailure and Analysis; Automatic Server Recovery and Restart) |
| |     Agents and CIM Providers / Agentless Service |
| |     System Monitor |
| |     RAID Manager |
| |     Capacity Management |
| |     Power Management |
| |     Storage Support |
| | ServerView Suite - Maintain |
| |     Remote Management (iRMC in combination with Intel® Node Manager) |
| |     Update Management (BIOS, Firmware, Windows Drivers, Agents and CIM Providers) |
| |     Performance Measurement |
| |     Asset Management |
| |     Online Diagnostics |
| | ServerView Suite - Integrate |
| |     Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM |
| | Deployment tools and others |
| Option | ServerView embedded Lifecycle Management |
| |     Enhanced management functionalities for simplified, highly integrated and automated management |
| | processes |
| | ServerView Suite - Maintain |
| |     iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media |
| Server Management notes | Regarding dependencies for ServerView Suite software products see dedicated product data sheets. |

## Dimensions / Weight

| | |
|---|---|
| Floor-stand (W x D x H) | 98 x 399 x 340 mm |
| Dimension notes | without feet |
| Weight | up to 10 kg |
| Weight notes | Actual weight may vary depending on configuration |

## 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) | SATA: 18 dB(A) idle mode / 18 dB(A) operating mode; SAS: 31 dB(A) idle mode / 34 dB(A) operating mode |
| Sound power (LWAd; 1B = 10dB) | SATA: 3.1 B idle mode / 3.1 B operating mode; SAS: 4.6 B idle mode/ 4.8 B operating mode |
| Noise notes | Noise emissions depend on operation modes, system configuration and ambient temperature. |

## Electrical values

| | |
|---|---|
| Power supply configuration | 1x standard or hot-plug power supply |
| Active power (max. configuration) | 231 W |
| Apparent power (max. configuration) | 235 VA |
| Heat emission (max. configuration) | 831.6 kJ/h (788.2 BTU/h) |
| Rated current max. | 5 A (100 V) / 2.5 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 | 250W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz<br>450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz |

## Compliance

| | |
|---|---|
| Global | CB |
| | RoHS (Substance limitations in accordance with global RoHS regulations) |
| | WEEE (Waste electrical and electronical equipment) |

| Compliance | |
|---|---|
| Germany | GS |
| Europe | CE |
| USA/Canada | CSA us |
| | ULc/us |
| | FCC Class A |
| Japan | VCCI Class A |
| Russia | GOST-R |
| South Korea | KC |
| China | CCC |
| Australia/New Zealand | C-Tick |
| Taiwan | BSMI |
| Compliance link | https://sp.ts.fujitsu.com/sites/certificates |
| Compliance notes | * 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

| Backup Drives | RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0 |
|---|---|
| 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, 7,200 rpm, 512e, non hot plug, 3.5-inch, economic |
| | HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, 512e, non hot plug, 3.5-inch, economic |
| | HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, non hot plug, 3.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, non hot plug, 3.5-inch, business critical |
| | HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, non hot plug, 3.5-inch, business critical |
| | 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, non 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 |
| Hard disk drives | 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, SED |
| | 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, SED |
| | 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, 450 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED |
| | HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED |
| | HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 12 Gb/s, 2 TB , 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical |
| | HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED |
| | HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 12 Gb/s, 1.2 TB , 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED |
| | HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise |
| | HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical |

| Solid-State-Drive | SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) |
| --- | --- |
| | SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 800 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) |
| | SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) |
| | SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) |
| | SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years) |
| | SSD SATA, 6 Gb/s, 1.6 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) |
| | SSD SATA, 6 Gb/s, 1.2 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years) |
| PCIe SSD & SATA DOM SSD | DOM SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 0.13 DWPD (Drive Writes Per Day for 5 years) |
| | DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 0.14 DWPD (Drive Writes Per Day for 5 years) |
| SCSI / SAS Controller | Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8 |
| RAID Controller | 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/PCIe-NVMe 12 Gbit/s, 16 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 |
| Communication, Network | Ethernet Ctrl. 1 x 1 Gbit/s PCIe 2.1 x1 RJ45 ( Intel® ) |
| | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 RJ45 ( Intel® ) |
| | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Emulex ) |
| | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( 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 |

| Warranty | |
| --- | --- |
| Warranty period | 1 year |
| Warranty type | Onsite Service (depending on country) |
| Warranty Terms & Conditions | http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM |

**Product Support Services - the perfect extension**

| 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 TX1320 M3, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio
Build 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 offering. This allows customers to leverage 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

To Learn more about Fujitsu PRIMERGY TX1320 M3, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/global/products/computing/servers/primergy/rack/tx1320m3/

## 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



## Copyrights

## Disclaimer