

# Data Sheet

## Fujitsu PRIMERGY TX1320 M5 Tower Server

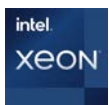
Ultra-compact advanced technology server to accelerate your business

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 for remote and branch offices, versatile rack-mount servers and density-optimized multi-node servers. 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 TX1320 M5

The unique ultra-compact Fujitsu PRIMERGY Server TX1320 M5 has advanced technology ideal for most industry verticals, small and medium-sized enterprises (SME), space-constrained environments, retail premises or branch offices. The performance-oriented yet cost-effective mono-socket design supports the latest Intel® Xeon® E-2300 product family processors, an affordable Pentium® processor option plus up to 128 GB RAM at 3,200 MT/s to boost performance for appropriately sized standard business workloads, including virtualized ones (such as: file/print, email, ERP/CRM, messaging, centralized data storage) and industry specific applications. Institutions with special legal requirements such as medical, governmental, legal, or financial offices can benefit from the server's secure and robust storage and transmission features. These include up to eight high quality 2.5-inch storage devices (including up to four ultra-fast PCIe SSDs for demanding applications), powerful RAID controllers, graphics and networking options enabled by 4 PCIe expansion slots (4.0/3.0)

together with versatile and affordable backup plus TPM 2.0 capability. High efficiency (96%), 500W redundant power supplies enhance reliability and protect customer investment. This ultra-compact, silent server with an optional dust protection kit and Advanced Thermal Design Technology is designed for deployment flexibility – it can be deployed in offices, on rack shelves, industrial areas and even on desks at temperatures from 5 °C to 45 °C. New generation technologies include M.2 modules for efficient OS installation along with dual microSD capability for VMware ESXi, plus the latest USB 3.2 Gen 2 ports. Furthermore, the TX1320 M5 server features the iRMC S6 and the Fujitsu Infrastructure Manager (ISM) suite, which enable remote server management and centralized IT infrastructure control respectively, hence boosting IT administrator productivity.



# Features & Benefits

| Main Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Benefits                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>ADVANCED TECHNOLOGY TO DRIVE WORKLOADS</b></p> <ul style="list-style-type: none"> <li>■ Wide choice of the Intel® Xeon® E-2300 product family processors and an affordable Pentium® option. Up to 128GB DDR4 ECC memory (4x DIMMs at 3,200 MT/s) is supported for high-speed, reliable performance. The server also features 8x hot-plug 2.5-inch storage (SAS/SATA) devices (including up to 4x PCIe SSD), or 2x 3.5-inch storage, plus RDX backup. Powerful SAS 3.0 RAID Controllers with up to 8 GB cache are also available. Redundant (2x1GbE) LAN as standard, plus 25/10 Gb Ethernet controller options round out the networking capabilities.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>■ Powerful mono-socket compute and memory accelerate performance across both individual and virtualized business and industry workloads. Full-featured base units (with 8x 2.5-inch or 2x 3.5-inch storage drives, dual Gigabit LAN standard) to meet diverse SME storage needs.</li> </ul>                                                         |
| <p><b>FLEXIBLE, FUTURE-READY PLATFORM</b></p> <ul style="list-style-type: none"> <li>■ Server expandability for investment protection enabled via a range of PCIe expansion slots, with 4x PCIe (4.0/3.0) slots split between 2x PCIe 4.0 x8 and 2x PCIe 3.0 x4. The two PCIe 4.0 x8 slots can even be converted into a single PCIe 4.0 x16 slot. TPM 2.0 support and Fujitsu's secure 3-way lock secure the data. The flexible design also boosts user efficiency for OS installation: it supports 2x M.2 modules, plus dual microSD modules, also offers new 3.2 Gen2 USB ports (a total of 3x 3.2 Gen2, 1x 3.2 Gen1, 4x USB 2.0) to enhance peripheral device connectivity.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>■ Versatile 4x PCIe 4.0/3.0 slots (2x 4.0) to enable upgrades, with advanced options (RAID, networking, and graphics). Secure storage features protect data while M.2, dual microSD devices support flexible software boot and new high data rate USB ports enable the latest peripheral devices.</li> </ul>                                        |
| <p><b>EFFICIENT AND RELIABLE BY DESIGN</b></p> <ul style="list-style-type: none"> <li>■ The TX1320 M5's base units offer cost-optimized standard power supplies (available with both 3.5-inch and 2.5-inch drive base units) or dual power supplies (available with a 2.5-inch drive base unit). The high-efficiency, dual 500W Titanium power supplies (96% efficiency) offer both hot-plug capability and redundancy.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>■ Designed to be good for both the business and the environment. Choose from amongst a 3.5-inch drive base unit with a value-oriented standard power supply, or the 2.5-inch drive base units which offer either a standard power supply or dual, hot-plug 500W power supplies for enhanced reliability and with high energy-efficiency.</li> </ul> |
| <p><b>DEPLOY ANYWHERE, SERVICE AND MANAGE EASILY</b></p> <ul style="list-style-type: none"> <li>■ The server has an ultra-small form factor with silent operation, and Fujitsu's Cool-safe® Advanced Thermal Design technology for an expanded range of operation. It is also designed for enhanced serviceability with easy, fast and comfortable access to critical components, and also has optional a new dust-protection kit. It also fields the comprehensive Fujitsu iRMC S6, and the Infrastructure Manager (ISM) software suite. The iRMC S6 allows powerful remote access capabilities. The free ISM Essential server management suite provides essential monitoring and firmware update of all supported devices, including servers, storage, and network switches, while you can also upgrade to the ISM Advanced, 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.</li> </ul> | <ul style="list-style-type: none"> <li>■ Ultra-compact, low noise, easy to maintain, with Fujitsu's Cool-safe® technology, and an optional dust-protection kit enabling wide-spread deployment. The server's iRMC S6 and Fujitsu Infrastructure Manager (ISM) software suite enable efficient server remote management and infrastructure control.</li> </ul>                              |

# Technical details

## PRIMERGY TX1320 M5

|                            |                                 |                                 |                                 |
|----------------------------|---------------------------------|---------------------------------|---------------------------------|
| Base unit                  | PRIMERGY TX1320 M5 SFF/Red. PSU | PRIMERGY TX1320 M5 SFF/Std. PSU | PRIMERGY TX1320 M5 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                        |
| Power supply               | Hot-plug                        | Standard                        | Standard                        |
| Product Type               | Mono Socket Tower Server        | Mono Socket Tower Server        | Mono Socket Tower Server        |

## Mainboard

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| Mainboard type              | D3931                                                                |
| Chipset                     | Intel® C256                                                          |
| Processor quantity and type | 1 x Intel® Xeon® E-2300 processor family / Intel® Pentium® processor |

## Processor

|                               |                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | Intel® Xeon® processor E-2388G (8C/16T, 3.20 GHz, up to 4.6 GHz, 3,200 MHz)                                                                        |
|                               | Intel® Xeon® processor E-2386G (6C/12T, 3.50 GHz, up to 4.7 GHz, 3,200 MHz)                                                                        |
|                               | Intel® Xeon® processor E-2378G (8C/16T, 2.80 GHz, up to 4.6 GHz, 3,200 MHz)                                                                        |
|                               | Intel® Xeon® processor E-2378 (8C/16T, 2.60 GHz, up to 4.5 GHz, 3,200 MHz)                                                                         |
|                               | Intel® Xeon® processor E-2374G (4C/8T, 3.70 GHz, up to 4.9 GHz, 3,200 MHz)                                                                         |
|                               | Intel® Xeon® processor E-2356G (6C/12T, 3.20 GHz, up to 4.8 GHz, 3,200 MHz)                                                                        |
|                               | Intel® Xeon® processor E-2336 (6C/12T, 2.90 GHz, up to 4.6 GHz, 3,200 MHz)                                                                         |
|                               | Intel® Xeon® processor E-2334 (4C/8T, 3.40 GHz, up to 4.6 GHz, 3,200 MHz)                                                                          |
|                               | Intel® Xeon® processor E-2324G (4C/4T, 3.10 GHz, up to 4.5 GHz, 3,200 MHz)                                                                         |
|                               | Intel® Xeon® processor E-2314 (4C/4T, 2.80 GHz, up to 3.5 GHz, 3,200 MHz)                                                                          |
|                               | Intel® Pentium® Gold G6405 (2C/4T, 4.10 GHz, 2,666 MHz)                                                                                            |
| Memory slots                  | 4                                                                                                                                                  |
| Memory slot type              | UDIMM (DDR4)                                                                                                                                       |
| Memory capacity (min. - max.) | 8 GB - 128 GB                                                                                                                                      |
| Memory protection             | ECC                                                                                                                                                |
| Memory notes                  | support up to 3200 MT/s. Pentium CPU support up to 2666 MT/s only. Any mix of different memory modules with different order code is not supported. |

## Interfaces

|                       |                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| USB 2.x ports         | 4 (Rear: 4x USB 2.0)                                                                                                                              |
| USB 3.x ports         | 6 (Front: 1x USB 3.2 Gen2x2(20 Gbps) Type C, 1x USB 3.2 Gen1x1(5 Gbps) / Rear:, 2x USB 3.2 Gen2x1(10 Gbps) / Internal: 2x USB 3.2 Gen1x1(5 Gbps)) |
| Graphics (15-pin)     | 2 (1x Display Port (Integrated processor graphics) / 1x VGA (15-pin) / can be used exclusively)                                                   |
| Serial connection     | 1 x RS232 (option)                                                                                                                                |
| LAN / Ethernet        | 2                                                                                                                                                 |
| Management LAN (RJ45) | 1 x dedicated management LAN port for iRMC S6 (10/100/1000 Mbit/s)<br>Management LAN traffic can be switched to shared onboard Gbit LAN port      |

## Onboard or integrated Controller

|                               |                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serial ATA total              | 7                                                                                                                                                                            |
| RAID controller               | Optionally integrated RAID 0/1 or RAID 5/6 controller for SAS base units (occupies one PCIe slot).<br>All hardware storage controller options are described under Components |
| SATA controller type notes    | Intel® C256, 1x SATA channel for ODD, 2x SATA channel for M.2, 4x SATA channel for HDD/SSD                                                                                   |
| LAN Controller                | Intel® i210 onboard<br>2 x 1 Gbit/s Ethernet (RJ45)                                                                                                                          |
| Trusted Platform Module (TPM) | TPM 2.0 module (option)                                                                                                                                                      |

## Slots

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| PCI-Express 4.0 x8 | 2 x Low profile (2x PCIe 4.0 x8 slots can be switched to 1x PCIe 4.0 x16) |
| PCI-Express 3.0 x4 | 2 x Low profile                                                           |
| Slot Notes         | PCIe 4.0 slot works as PCIe 3.0 with Pentium CPU.                         |

**Drive bays**

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| Storage drive bays    | 3.5-inch non hot-plug or 2.5-inch hot-plug SAS/SATA or 2.5-inch NVMe drives |
| Accessible drive bays | 1 x 3.5/1.6-inch for backup devices<br>1 x 5.25/9.5mm for DVD-RW/Blu-ray    |

**Drive bays**

|                       |                                                                        |                                                                        |
|-----------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| Storage drive bays    | Max. 8x (4x + 4x) x 2.5-inch hot-plug                                  | Max. 2 x 3.5-inch non hot-plug SATA                                    |
| Accessible drive bays | 1 x 3.5/1.6-inch for backup devices<br>1 x 5.25/0.4-inch for CD-RW/DVD | 1 x 3.5/1.6-inch for backup devices<br>1 x 5.25/0.4-inch for CD-RW/DVD |

**Number of fans**

|                   |                              |
|-------------------|------------------------------|
| Fan configuration | 1 standard fan               |
| Fan notes         | non redundant / non hot-plug |

**Operating panel**

|                   |                                                                                                                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating buttons | On/off switch<br>NMI button<br>Reset button<br>ID button                                                                                                                                                                                                                                                       |
| Status LEDs       | At system front side:<br>Power (DC-On: green / AC-On: white)<br>Global Error Indicator<br>Identification (blue)<br>Hard disks access (green)<br>CSS (orange)<br>At system rear side:<br>Identification (blue)<br>CSS (orange)<br>Global error (orange)<br>LAN connection (green)<br>LAN speed (green / yellow) |

**Operating Systems and Virtualization Software**

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certified or supported operating systems and virtualization software | Windows Server 2022 Datacenter<br>Windows Server 2022 Standard<br>Windows Server 2022 Essentials<br>Windows Server 2019 Datacenter<br>Windows Server 2019 Standard<br>Windows Server 2019 Essentials<br>VMware vSphere™ 8.0<br>VMware vSphere™ 7.0<br>SUSE® Linux Enterprise Server 15<br>Red Hat® Enterprise Linux 8                                                                                                                                          |
| Operating system release link                                        | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473</a>                                                                                                                                                                                                                                                                                            |
| Operating system notes                                               | 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. |

**Server Management**

|                              |                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC Infrastructure Management | Infrastructure Manager (ISM)<br>Essential Edition<br>Advanced Edition                                                                                               |
| Server Management            | Infrastructure Manager (ISM)<br>Essential Edition<br>Advanced Edition                                                                                               |
| Management notes             | For further information regarding ISM and ServerView Suite see dedicated data sheets.                                                                               |
| Manageability link           | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6">http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6</a> |

**Dimensions / Weight**

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Floor-stand (W x D x H) | 98 x 400 x 340 mm                                 |
| Dimension notes         | without feet                                      |
| Weight                  | up to 11.1 kg                                     |
| Weight notes            | Actual weight may vary depending on configuration |

**Environment**

|                               |                                                                                                                                                                                                                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating ambient temperature | 5 - 45 °C (41 - 113 °F)                                                                                                                                                                                                                                                                           |
| Operating temperature note    | Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. Please use the Fujitsu WebArchitect ( <a href="http://www.fujitsu.com/configurator/public">www.fujitsu.com/configurator/public</a> ) 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    | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>                                                                                                                               |
| Noise emission                | According to ISO9296                                                                                                                                                                                                                                                                              |
| Sound pressure (LpAm)         | 17 dB(A) (idle)/ 17 dB(A) (operating)                                                                                                                                                                                                                                                             |
| Sound power (LWAd; 1B = 10dB) | 3.0B (idle)/ 3.0B (operating)                                                                                                                                                                                                                                                                     |
| Noise notes                   | Noise emissions depend on operation modes, system configuration and ambient temperature.                                                                                                                                                                                                          |

**Electrical values**

|                                     |                                                                                                                                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply configuration          | 1 x standard, 1 x hot-plug, 2 x hot-plug redundant (depending on Model)                                                                                                                     |
| Hot-plug power supply redundancy    | Optional                                                                                                                                                                                    |
| Active power (max. configuration)   | 613 W                                                                                                                                                                                       |
| Apparent power (max. configuration) | 230V : 600VA<br>100V: 620 VA                                                                                                                                                                |
| Heat emission (max. configuration)  | 2206.8 kJ/h (2091.6 BTU/h)                                                                                                                                                                  |
| Rated current max.                  | 6A (100V) / 2.9A (240V)                                                                                                                                                                     |
| Power supply                        | 250W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz<br>500W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz<br>500W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz |

**Compliance**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | PRIMERGY TX1320 M5                                                                                                                                                                                                                                                                                                                                                                                                |
| Model                 | PS1320A                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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            | NRTLc/us<br>FCC Class A<br>ICES-003 / NMB-003 Class A                                                                                                                                                                                                                                                                                                                                                             |
| Japan                 | VCCI Class A + JIS 61000-3-2<br>VCCI Class B + JIS 61000-3-2 (only for std. PSU base unit)                                                                                                                                                                                                                                                                                                                        |
| Russia                | EAC                                                                                                                                                                                                                                                                                                                                                                                                               |
| South Korea           | KC                                                                                                                                                                                                                                                                                                                                                                                                                |
| China                 | CCC                                                                                                                                                                                                                                                                                                                                                                                                               |
| Australia/New Zealand | RCM                                                                                                                                                                                                                                                                                                                                                                                                               |
| Taiwan                | BSMI                                                                                                                                                                                                                                                                                                                                                                                                              |
| Compliance link       | <a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>                                                                                                                                                                                                                                                                                                           |
| 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

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SSD SAS 2.5-inch  | SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD<br>SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD<br>SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD<br>SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD<br>SSD SAS, 12 Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD<br>SSD SAS, 12 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD<br>SSD SAS, 12 Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD<br>SSD SAS, 12 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD<br>SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD<br>SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD<br>SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD<br>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<br>SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD<br>SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD<br>SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED<br>SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD<br>SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD<br>SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED<br>SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD<br>SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD<br>SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED<br>SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD<br>SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD<br>SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.4 DWPD<br>SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD<br>SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED<br>SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD<br>SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.5 DWPD<br>SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED<br>SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD<br>SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED<br>SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD<br>SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 1.0 DWPD<br>SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED<br>SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD<br>SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD<br>SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED<br>SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD<br>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, 600 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise                                                                                                          |
|                         | HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise                                                                                                          |
|                         | HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise                                                                                                          |
|                         | HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise                                                                                                          |
|                         | HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise                                                                                                                |
|                         | HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise                                                                                                          |
| PCIe SSD & SATA DOM SSD | 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, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 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, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD                                                                                                          |
|                         | PCIe-SSD SFF, 1 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD                                                                                                       |
| SED                     | SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED                                                                                             |
|                         | SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED                                                                                             |
|                         | SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED                                                                                             |
|                         | HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED                                                                                                     |
|                         | HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED                                                                                                     |
|                         | HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED                                                                                                     |
|                         | HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED                                                                                                     |
| SCSI / SAS Controller   | PSAS CP 2100-8i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8                                                                                                                     |
|                         | Broadcom® PSAS CP503i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8                                                                                                               |
| RAID Controller         | pre-configured RAID1 Array for M.2 in PDUAL,                                                                                                                                        |
|                         | Fujitsu PRAID EP680i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 16 GT/s, 16 ports int. RAID level: 0, 1, 10, 5, 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 EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516           |
|                         | Broadcom® PRAID CP500i LP, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, No FBU support                                                                 |
| GPU computing card      | NVIDIA® A2, 200GB/s, 16GB GDDR6, N/A, PCIe 4.0 x8                                                                                                                                   |
|                         | -, xxxGB/s, 24GB GDDR6, N/A, PCIe 4.0 x16                                                                                                                                           |
|                         | NVIDIA® T400 4GB, 4 GB, 384 cores, 4GB, N/A, PCIe x16, 3 x miniDP                                                                                                                   |

## Notes

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

## Notes

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

## Warranty

|                                                |                                                                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Warranty period                                | 1 year                                                                                                                                    |
| Warranty type                                  | Onsite warranty                                                                                                                           |
| Warranty Terms & Conditions                    | <a href="http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM">http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM</a>           |
| <b>Product Support - the perfect extension</b> |                                                                                                                                           |
| Recommended Service                            | 24x7 Onsite Service with 4h Onsite Response Time                                                                                          |
| Service Lifecycle                              | at least 5 years after shipment, for details see <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a>            |
| Service Weblink                                | <a href="http://www.fujitsu.com/fts/products/product-support-services/">http://www.fujitsu.com/fts/products/product-support-services/</a> |

# More information

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