

# Data Sheet

## FUJITSU Server PRIMERGY TX2560 M2 Tower Server

### Reliable performance for your business

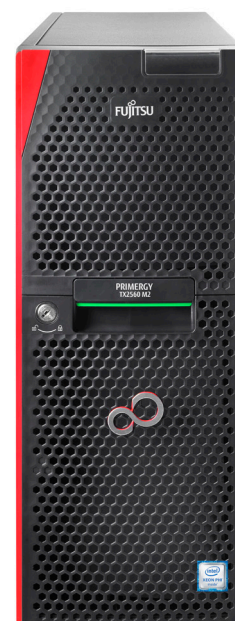
FUJITSU Server PRIMERGY will give you the servers you need to power any workload and changing business requirements. As business processes expand so does the need for applications. Each has its own resource footprint, so you need a way to optimize your computing to better serve your users. PRIMERGY systems 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 TX2560 M2

The FUJITSU Server PRIMERGY TX2560 M2 offers maximum performance, best expandability and highest availability without any compromises. Branches, data centers and SMEs value the performance of up to two Intel® Xeon® E5 v4 processors in combination with a maximum 1536 GB DDR4 memory. Up to 10 extension slots and up to 32 2.5-inch hard disks enable excellent expandability options. Thanks to a redundant power supply and fans as well as a

range of different RAID controllers the Tower Server ensures top availability levels and "peace of mind". The server is thus ideal for performance hungry applications, virtualization solutions and storage demanding scenarios. Furthermore, the comprehensive Fujitsu ServerView® Suite provides support for administrators during server installation, deployment and administration.



# Features & Benefits

| Main Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Benefits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Meet today's demand and be prepared for future requirements</b></p> <ul style="list-style-type: none"> <li>■ Intel® Xeon® E5-2600 v4 product family with up to 22 cores</li> <li>■ Up to 1.532 GB DDR4 memory and up to 10 PCIe Gen3 slots</li> <li>■ Expanded scalability of up to 32x 2.5-inch or up to 12 3.5-inch plus 2x 2.5-inch storage drives</li> </ul> <p><b>Lifecycle investment protection</b></p> <ul style="list-style-type: none"> <li>■ Modular concept for the base unit as well as a choice for LAN controller, RAID controller and power supplies</li> <li>■ Upgrade kits for hard disk drives, backup devices as well as LTO drives</li> </ul> <p><b>Cost efficient operations</b></p> <ul style="list-style-type: none"> <li>■ Comprehensive power management including pre-defined power profiles and a scheduled mode to switch between the profiles automatically</li> <li>■ Two hot-plug power supply units with up to 96 % efficiency</li> <li>■ Fujitsu ServerView Suite offers tools for installation and deployment, permanent status monitoring and control. A wide range of integration packs allow a seamless and easy integration in widely-used enterprise management systems</li> </ul> | <ul style="list-style-type: none"> <li>■ Increased general computing performance of up to 38% compared to the previous generation</li> <li>■ Optimized for performance hungry applications, virtualization solutions and storage demanding scenarios.</li> <li>■ Individual and cost-saving configuration of the server according to the need of today with upgrade option to meet the demand of tomorrow</li> <li>■ Upgrade kits save budget as the system can be upgraded when the company grows and thus protect the investment</li> <li>■ Ability to protect the data by integrating LTO drives</li> <li>■ Simplified power management that adjusts the power consumption accordingly to the current usage or to the given power policy</li> <li>■ Fujitsu ServerView Suite provides all the functions for fail-safe, flexible and automated 24x7 server operations and improves end-user productivity via intelligent and innovative system management solutions</li> </ul> |

# Technical details

## PRIMERGY TX2560 M2

|               |                          |
|---------------|--------------------------|
| Base unit     | PRIMERGY TX2560 M2       |
| Housing types | Tower                    |
| Power supply  | Hot-plug                 |
| Product Type  | Dual Socket Tower Server |

## Mainboard

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| Mainboard type              | D3289-B                                                                 |
| Chipset                     | Intel® C612                                                             |
| Processor quantity and type | 1 - 2 x Intel® Xeon® processor E5-2600 v4 product family-based platform |

## Processor

|                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intel® Xeon® processor E5-2603v4 (6C/6T, 1.70 GHz, TLC: 15 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,866 MHz, 85 W, AVX Base 1.70 GHz)                               |
| Intel® Xeon® processor E5-2609v4 (8C/8T, 1.70 GHz, TLC: 20 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,866 MHz, 85 W, AVX Base 1.70 GHz)                               |
| Intel® Xeon® processor E5-2620v4 (8C/16T, 2.10 GHz, TLC: 20 MB, Turbo: 2.30 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 1.80 GHz, AVX Turbo 2.30 GHz)    |
| Intel® Xeon® processor E5-2623v4 (4C/8T, 2.60 GHz, TLC: 10 MB, Turbo: 2.90 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)     |
| Intel® Xeon® processor E5-2630Lv4 (10C/20T, 1.80 GHz, TLC: 25 MB, Turbo: 2.00 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 55 W, AVX Base 1.30 GHz, AVX Turbo 2.00 GHz)  |
| Intel® Xeon® processor E5-2630v4 (10C/20T, 2.20 GHz, TLC: 25 MB, Turbo: 2.40 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 1.80 GHz, AVX Turbo 2.40 GHz)   |
| Intel® Xeon® processor E5-2637v4 (4C/8T, 3.50 GHz, TLC: 15 MB, Turbo: 3.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 3.20 GHz, AVX Turbo 3.60 GHz)    |
| Intel® Xeon® processor E5-2640v4 (10C/20T, 2.40 GHz, TLC: 25 MB, Turbo: 2.60 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 90 W, AVX Base 2.00 GHz, AVX Turbo 2.60 GHz)   |
| Intel® Xeon® processor E5-2643v4 (6C/12T, 3.40 GHz, TLC: 20 MB, Turbo: 3.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 2.80 GHz, AVX Turbo 3.60 GHz)   |
| Intel® Xeon® processor E5-2650Lv4 (14C/28T, 1.70 GHz, TLC: 35 MB, Turbo: 2.00 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 65 W, AVX Base 1.20 GHz, AVX Turbo 1.70 GHz)  |
| Intel® Xeon® processor E5-2650v4 (12C/24T, 2.20 GHz, TLC: 30 MB, Turbo: 2.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 105 W, AVX Base 1.80 GHz, AVX Turbo 2.50 GHz)  |
| Intel® Xeon® processor E5-2660v4 (14C/28T, 2.00 GHz, TLC: 35 MB, Turbo: 2.40 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 105 W, AVX Base 1.70 GHz, AVX Turbo 2.40 GHz)  |
| Intel® Xeon® processor E5-2667v4 (8C/16T, 3.20 GHz, TLC: 25 MB, Turbo: 3.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 2.60 GHz, AVX Turbo 3.50 GHz)   |
| Intel® Xeon® processor E5-2680v4 (14C/28T, 2.40 GHz, TLC: 35 MB, Turbo: 2.90 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 120 W, AVX Base 1.90 GHz, AVX Turbo 2.80 GHz)  |
| Intel® Xeon® processor E5-2683v4 (16C/32T, 2.10 GHz, TLC: 40 MB, Turbo: 2.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 120 W, AVX Base 1.70 GHz, AVX Turbo 2.50 GHz)  |
| Intel® Xeon® processor E5-2690v4 (14C/28T, 2.60 GHz, TLC: 35 MB, Turbo: 3.20 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 2.10 GHz, AVX Turbo 2.90 GHz)  |
| Intel® Xeon® processor E5-2695v4 (18C/36T, 2.10 GHz, TLC: 45 MB, Turbo: 2.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 120 W, AVX Base 1.70 GHz, AVX Turbo 2.40 GHz)  |
| Intel® Xeon® processor E5-2697Av4 (16C/32T, 2.60 GHz, TLC: 40 MB, Turbo: 3.10 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 145 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz) |
| Intel® Xeon® processor E5-2697v4 (18C/36T, 2.30 GHz, TLC: 45 MB, Turbo: 2.80 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 145 W, AVX Base 2.00 GHz, AVX Turbo 2.70 GHz)  |
| Intel® Xeon® processor E5-2698v4 (20C/40T, 2.20 GHz, TLC: 50 MB, Turbo: 2.70 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 1.80 GHz, AVX Turbo 2.60 GHz)  |
| Intel® Xeon® processor E5-2699v4 (22C/44T, 2.20 GHz, TLC: 55 MB, Turbo: 2.80 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 145 W, AVX Base 1.80 GHz, AVX Turbo 2.60 GHz)  |

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| Memory slots                  | 24 (12 DIMMs per CPU, 4 channels with 3 slots per channel) |
| Memory slot type              | DIMM (DDR4)                                                |
| Memory capacity (min. - max.) | 8 GB - 1536 GB                                             |

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Memory protection</b>                | Advanced ECC<br>Memory Scrubbing<br>SDDC (Chipkill™)<br>Rank sparing memory support<br>Memory Mirroring support                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Memory notes</b>                     | Memory Mirroring with identical modules in both channel pairs of a bank (4 modules per bank), Rank sparing or Performance Mode with identical modules in all four channels (4 modules per bank).                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory options</b>                   | 8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,400 MHz, PC4-2400T-R, DIMM, 1Rx4<br>8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,400 MHz, PC4-2400T-R, DIMM, 2Rx8<br>16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,400 MHz, PC4-2400T-R, DIMM, 2Rx4<br>16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,400 MHz, PC4-2400T-R, DIMM, 2Rx8<br>32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,400 MHz, PC4-2400T-R, DIMM, 2Rx4<br>64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 2,400 MHz, PC4-2400T-L, LRDIMM, 4Rx4 |
| <b>Interfaces</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>USB 2.0 ports</b>                    | 4 x USB 2.0 (2x rear, 1x internal, 1x UFM internal boot device)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>USB 3.0 ports</b>                    | 5 x USB 3.0 (2x rear, 1x internal for RDX drives, 2x front)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Graphics (15-pin)</b>                | 2 x VGA (thereof 1x front optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Serial 1 (9-pin)</b>                 | 1 x serial RS-232-C optional, usable for iRMC S4 or system or shared                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Management LAN (RJ45)</b>            | 1 x dedicated management LAN port for iRMC S4 (10/100/1000 Mbit/s)<br>Management LAN traffic can be switched to shared onboard LAN controller port, speed and connector is related to installed interface card.                                                                                                                                                                                                                                                                                                                      |
| <b>Onboard or integrated Controller</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RAID controller</b>                  | All hardware storage controller options are described under Components                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>SATA Controller</b>                  | Intel® C612, 1 x SATA connector for optical drive (ODD), 1x SATA connector for SATA-DOM                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>LAN Controller</b>                   | DynamicLoM based on Emulex XE100 series. Dynamic LoM connector cards are optional. The Controller Cards offer 2 LEDs 1) activity/connect (green) 2) speed (green/orange).<br>PXE-Boot via LAN from PXE server, iSCSI / FCoE boot (also diskless).                                                                                                                                                                                                                                                                                    |
| <b>Remote management controller</b>     | Intel® Ethernet Controller I210 supported (on project request only).<br>Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller)<br>IPMI 2.0 compatible                                                                                                                                                                                                                                                                                                                                   |
| <b>Trusted Platform Module (TPM)</b>    | Infineon / TPM 1.2 or TPM 2.0 module; TCG compliant (option)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Slots</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>PCI-Express 3.0 x4</b>               | 4 x Full height optional; slot 5+6 (CPU1, riser card); slot 11+12 (CPU2, riser card), 252mm length                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PCI-Express 3.0 x8</b>               | 5 x Full height ; slot 1 (CPU1, modular RAID, 167mm), slot 2 (CPU1, 167mm), opt. slot 4 (CPU1, opt. riser card, 252mm); opt. slot 8 (CPU2, 167mm), opt. slot 10 (CPU2, opt. riser card, 252mm)                                                                                                                                                                                                                                                                                                                                       |
| <b>PCI-Express 3.0 x16</b>              | 3 x Full height ; slot 3 (CPU1), slot 8+9 (CPU2), 167mm length; please be aware, optional riser cards occupies slot 3 / 9                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Slot Notes</b>                       | Slot 1: PCIe Gen3 x8 slot is dedicated for the modular RAID controller.<br>up to 5 PCIe Gen3 slots are supported with the first processor, up to 10 PCIe Gen3 slots are supported with two processors.<br>Onboard slots (Slot1, 2, 3 & 7, 8, 9) support card length of up to 167mm; Slots on the optional riser cards (4, 5, 6, 10, 11, 12) support card length of up to 252mm                                                                                                                                                       |
| <b>Storage drive bays</b>               | 3.5-inch or 2.5-inch hot-plug SAS/SATA, or 2.5-inch non hot-plug PCIe                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Accessible drive bays</b>            | 3 x 5.25/1.6-inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Notes accessible drives</b>          | All possible options described in relevant system configurator.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Drive bays</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage drive bays</b>               | 3.5-inch SAS/SATA: Max. 12x hot-plug HDD + opt. 2x 2.5-inch non hot-plug HDD/SSD<br>2.5-inch SAS/SATA: Max. 32x hot-plug HDD/SSD<br>2.5-inch PCIe: Max. 8x non hot-plug SSD                                                                                                                                                                                                                                                                                                                                                          |
| <b>Optional accessible drives</b>       | up to 3x 5.25/1.6-inch bay for accessible devices (depending on the amount of storage drive bays)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Fan Configuration</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Number of fans</b>                   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Fan configuration</b>                | redundant / single hot-plug (each fan can be exchanged separately)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Fan notes</b>                        | 2+1 redundant, 120mm fans with optimized fan geometry for silent and safe operation                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Operating panel**

|                          |                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating buttons</b> | On/off switch<br>Reset button<br>NMI button<br>ID button                                                                                                                                                                 |
| <b>Status LEDs</b>       | CSS (orange)<br>Global error (orange)<br>Power (green)<br>Identification (blue)<br>AC available (green)<br>At system rear side:<br>LAN connection / activity (green) (optional)<br>LAN speed (green / yellow) (optional) |
| <b>Service display</b>   | Optional:<br>ServerView Local Service Display (LSD)                                                                                                                                                                      |

**BIOS**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BIOS features</b> | UEFI compliant<br>Legacy BIOS compatibility customer configuration option<br>Secure boot support<br>ROM based setup utility<br>GPT support for boot drives larger than 2.2 TB<br>Memory Redundancy support (Mirroring, Sparing)<br>IPMI support<br>Recovery BIOS<br>BIOS settings save and restore<br>Local BIOS update from USB device<br>Online update tools for main Windows and Linux versions<br>Local and remote update via ServerView Update Manager<br>IPv4/IPv6 remote PXE & iSCSI boot support |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Operating Systems and Virtualization Software**

|                                                                             |                                                                                                                                                                     |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Certified or supported operating systems and virtualization software</b> | Microsoft® Hyper-V Server 2012 R2                                                                                                                                   |
|                                                                             | Microsoft® Windows Server® 2012 R2 Datacenter                                                                                                                       |
|                                                                             | Microsoft® Windows Server® 2012 R2 Standard                                                                                                                         |
|                                                                             | Microsoft® Windows Storage Server 2012 R2 Standard                                                                                                                  |
|                                                                             | Microsoft® Hyper-V Server 2012                                                                                                                                      |
|                                                                             | Microsoft® Windows Server® 2012 Datacenter                                                                                                                          |
|                                                                             | Microsoft® Windows Server® 2012 Standard                                                                                                                            |
|                                                                             | Microsoft® Windows Storage Server 2012 Standard                                                                                                                     |
|                                                                             | VMware vSphere™ 6.0                                                                                                                                                 |
|                                                                             | VMware vSphere™ 5.5                                                                                                                                                 |
|                                                                             | SUSE® Linux Enterprise Server 12                                                                                                                                    |
|                                                                             | SUSE® Linux Enterprise Server 11                                                                                                                                    |
|                                                                             | Red Hat® Enterprise Linux 7                                                                                                                                         |
|                                                                             | Red Hat® Enterprise Linux 6                                                                                                                                         |
|                                                                             | Citrix® XenServer®                                                                                                                                                  |
| <b>Operating system release link</b>                                        | <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> |
| <b>Operating system notes</b>                                               | Support of other Linux derivatives on demand                                                                                                                        |

**Server Management**

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

**Server Management notes** Regarding dependencies for ServerView Suite software products see dedicated product data sheets.

**Dimensions / Weight**

|                                |                                                   |
|--------------------------------|---------------------------------------------------|
| <b>Floor-stand (W x D x H)</b> | 177 x 777 x 456 mm                                |
| <b>Height Unit Rack</b>        | 4 U                                               |
| <b>19" rackmount</b>           | No                                                |
| <b>Weight</b>                  | up to 35.5 kg                                     |
| <b>Weight notes</b>            | Actual weight may vary depending on configuration |
| <b>Rack integration kit</b>    | Rack integration kit as option                    |

**Environment**

|                                      |                                                                                                                                                                                                                                                  |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating ambient temperature</b> | 5 - 45 °C (41 - 113 °F)                                                                                                                                                                                                                          |
| <b>Operating temperature note</b>    | Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed information see relevant system configurator.                                                                                           |
| <b>Operating relative humidity</b>   | 10 - 85 % (non condensing)                                                                                                                                                                                                                       |
| <b>Operating environment</b>         | FTS 04230 – Guideline for Data Center (installation specification)                                                                                                                                                                               |
| <b>Operating environment link</b>    | <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>                                                                              |
| <b>Noise emission</b>                | Measured according to ISO 7779 and declared according to ISO 9296                                                                                                                                                                                |
| <b>Sound pressure (LpAm)</b>         | Minimum noise :24 dB (idle) / 32 dB (operating)<br>Typical noise : 24 dB (idle) / 32 dB (operating)                                                                                                                                              |
| <b>Sound power (LWAd; 1B = 10dB)</b> | Minimum noise :4.2 B (idle) / 5.0 B (operating)<br>Typical noise : 4.2 B (idle) / 5.0 B (operating)                                                                                                                                              |
| <b>Noise notes</b>                   | Noise emissions depends on operation modes, system configuration and ambient temperature. Operating mode measured based on OLTIS with 50% load. *OLTIS = FUJITSU Load Profile which stresses all components of a server with a given load level. |

**Electrical values**

|                                            |                                                                      |
|--------------------------------------------|----------------------------------------------------------------------|
| <b>Power supply configuration</b>          | 1x hot-plug power supply or 2 x hot-plug power supply for redundancy |
| <b>Hot-plug power supply redundancy</b>    | Optional                                                             |
| <b>Active power (max. configuration)</b>   | 748 W                                                                |
| <b>Apparent power (max. configuration)</b> | 752 VA                                                               |
| <b>Heat emission (max. configuration)</b>  | 2692.8 kJ/h (2552.3 BTU/h)                                           |

**Electrical values**

|                    |                                                                                                                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated current max. | 9 A (100 V) / 3.5 A (240 V)                                                                                                                                                                                                                                                                                |
| Power supply       | 450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz<br>800W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz<br>800W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz<br>1200W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz; 110V range: 1000W, less than 110V: 900W |
| Power supply notes | Power Safeguard adapts system performance in case the power requirements exceeds supply limits.<br>96% Titanium efficiency power supply unit is only released for 200-240V!                                                                                                                                |

**Compliance**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global                | CB<br>RoHS (Substance limitations in accordance with global RoHS regulations)<br>WEEE (Waste electrical and electronic equipment)                                                                                                                                                                                                                                                                                 |
| Germany               | GS                                                                                                                                                                                                                                                                                                                                                                                                                |
| Europe                | CE                                                                                                                                                                                                                                                                                                                                                                                                                |
| USA/Canada            | CSAc/us<br>FCC Class A                                                                                                                                                                                                                                                                                                                                                                                            |
| Japan                 | VCCI:V3 Class A + JIS 61000-3-2                                                                                                                                                                                                                                                                                                                                                                                   |
| South Korea           | KN35<br>KN32                                                                                                                                                                                                                                                                                                                                                                                                      |
| China                 | CCC (planned)                                                                                                                                                                                                                                                                                                                                                                                                     |
| Australia/New Zealand | C-Tick                                                                                                                                                                                                                                                                                                                                                                                                            |
| Taiwan                | CNS 13438 class A - planned                                                                                                                                                                                                                                                                                                                                                                                       |
| Compliance link       | <a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.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  | LTO4HH Ultrium, 800 GB, 120 MB/s, half height, SAS 6Gb/s<br>LTO5HH Ultrium, 1,500 GB, 140 MB/s, half height, SAS 6Gb/s<br>LTO6HH Ultrium, 2,500 GB, 160 MB/s, half height, SAS 6Gb/s<br>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-ROM, (16xDVD; 48xCD), half height, SATA I<br>DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I<br>DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I<br>DVD Super Multi ultra slim, (8x DVD; 24x CD), ultraslim, SATA I |

## Hard disk drives

|                                                                                |
|--------------------------------------------------------------------------------|
| HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical     |
| HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, non hot plug, 2.5-inch, business critical |
| HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical |
| HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical |
| HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical |
| HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical |
| HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical       |
| HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical |
| HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical |
| HDD SAS, 12 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical     |
| HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical |
| HDD SAS, 12 Gb/s, 4 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical |
| HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical |
| HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical |
| HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical       |
| HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical |
| HDD SAS, 6 Gb/s, 500 GB, 7,200 rpm, non hot plug, 2.5-inch, business critical  |
| HDD SAS, 6 Gb/s, 146 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise            |
| HDD SAS, 6 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical        |
| HDD SAS, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical        |
| HDD SAS, 6 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise            |
| HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical        |



|                              |                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Solid-State-Drive</b>     | SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 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, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (drive writes per day for 5 years)                                               |
|                              | SSD SATA, 6 Gb/s, 800 GB, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)                                                               |
|                              | SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 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, 480 GB, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)                                                               |
|                              | SSD SATA, 6 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 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, 240 GB, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)                                                                 |
|                              | SSD SATA, 6 Gb/s, 240 GB, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)                                                               |
|                              | SSD SATA, 6 Gb/s, 200 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (drive writes per day for 5 years)                                               |
|                              | SSD SATA, 6 Gb/s, 120 GB, Read-Intensive Endurance, non hot plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)                                 |
|                              | SSD SATA, 6 Gb/s, 120 GB, Read-Intensive Endurance, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)                                     |
|                              | SSD SATA, 6 Gb/s, 120 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)                                                      |
|                              | SSD SATA, 6 Gb/s, 120 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, 3.5-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, 1.2 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (drive writes per day for 5 years)                                               |
|                              | SSD SAS, 12 Gb/s, 800 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise                                                                                      |
|                              | SSD SAS, 12 Gb/s, 400 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise                                                                                      |
|                              | SSD SAS, 12 Gb/s, 200 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise                                                                                      |
|                              | SSD SAS, 12 Gb/s, 1.6 TB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise                                                                                      |
|                              | PCIe-SSD SFF, 800 GB, MLC, 2.5-inch, Flash drive, 10 DWPD (drive writes per day)                                                                                    |
|                              | PCIe-SSD SFF, 2 TB, MLC, 2.5-inch, Flash drive, 10 DWPD (drive writes per day)                                                                                      |
|                              | PCIe-SSD SFF, 1.6 TB, MLC, 2.5-inch, Flash drive, 10 DWPD (drive writes per day)                                                                                    |
|                              | PCIe-SSD AIC, 5.2 TB, MLC, Standard Height, Half-Length, Flash drive, 6.7 DWPD (drive writes per day)                                                               |
|                              | PCIe-SSD AIC, 2.6 TB, MLC, Low Profile, Flash drive, 6.7 DWPD (drive writes per day)                                                                                |
|                              | PCIe-SSD AIC, 1.3 TB, MLC, Low Profile, Flash drive, 6.7 DWPD (drive writes per day)                                                                                |
|                              | DOM SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 345TBW (Seq. write)                                                                                             |
|                              | DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 172TBW (Seq. write)                                                                                              |
| <b>SCSI / SAS Controller</b> | Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8                                                                                                    |
|                              | Fujitsu PSAS CP400e SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8                                                                                                    |
| <b>RAID Controller</b>       | Fujitsu PRAID EP420i for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108 |
|                              | Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108               |
|                              | Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108               |
|                              | Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int.<br>RAID level: 0, 1, 1E, 10, 5, 50, No FBU support                                               |
|                              |                                                                                                                                                                     |

|                                                         |                                                                                                                                                             |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fibre Channel controller</b>                         | Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Qlogic QLE2560 MMF LC-style                                                                                     |
|                                                         | Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Qlogic QLE2562 MMF LC-style                                                                                     |
|                                                         | Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Emulex LPe1250 MMF LC-style                                                                                     |
|                                                         | Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Emulex LPe12002 MMF LC-style                                                                                    |
|                                                         | Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe16000B LC-style                                                                                      |
|                                                         | Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe16002B LC-style                                                                                      |
|                                                         | Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2670 LC-style                                                                                        |
|                                                         | Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2672 LC-style                                                                                        |
|                                                         | Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2690 LC-style                                                                                        |
|                                                         | Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2692 LC-style                                                                                        |
| <b>Communication, Network</b>                           | Converged Network Adapter 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Emulex )                                                                                         |
|                                                         | Ethernet Ctrl. 1 x 1 Gbit/s PCIe 2.1 x1 RJ45 ( Intel® )                                                                                                     |
|                                                         | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 SFP+ ( Fujitsu )                                                                                                   |
|                                                         | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 RJ45 ( Intel® )                                                                                                    |
|                                                         | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 10Gbit/s Eth (RJ45) ( Emulex )                                                                                     |
|                                                         | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Emulex )                                                                                                    |
|                                                         | 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® )                                                                                                     |
|                                                         | InfiniBand HCA 1 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed ( Mellanox )                               |
|                                                         | InfiniBand HCA 2 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed ( Mellanox )                               |
|                                                         | Interface modul for Dynamic LoM 2 x 10 Gbit/s RJ45 ( Emulex )                                                                                               |
|                                                         | Interface modul for Dynamic LoM 2 x 10 Gbit/s SFP+ ( Emulex )                                                                                               |
|                                                         | Interface modul for Dynamic LoM 2 x 1 Gbit/s RJ45 ( Emulex )                                                                                                |
|                                                         | Interface modul for Dynamic LoM 4 x 1 Gbit/s RJ45 ( Emulex )                                                                                                |
| <b>Graphics add on cards</b>                            | NVIDIA® NV5™ 315, PCIe x16, 2x DVI/VGA                                                                                                                      |
| <b>Warranty</b>                                         |                                                                                                                                                             |
| Warranty period                                         | 3 years                                                                                                                                                     |
| 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 Services - the perfect extension</b> |                                                                                                                                                             |
| 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 Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.                                                   |
| Service Lifecycle                                       | 5 years after end of product life                                                                                                                           |
| Service Weblink                                         | <a href="http://www.fujitsu.com/fts/products/product-support-services/">http://www.fujitsu.com/fts/products/product-support-services/</a>                   |

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## Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY TX2560 M2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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## More information

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**Green  
Policy  
Innovation**

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2016-04-11 CE-EN

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