

# DATASHEET

## FUJITSU PRIMERGY TX200 S5 SERVER

### WELL-BALANCED PRICE- PERFORMANCE

PRIMERGY TX industry standard tower servers: efficient, rock solid, record-breaking performance. PRIMERGY TX servers benefit from over 20 years pioneering work in the field of Green IT. That is how TX servers reach industry – leading performance per watt ratios, lowering the environmental impact and running costs. TX servers can easily be managed via the free of charge PRIMERGY ServerView Suite, saving IT admin costs. That's efficient performance. Our made-to-measure service packages take care of your system every step of the way. Rest assured, PRIMERGY TX servers are put through 5000 boot cycles - that's rock solid performance. PRIMERGY TX servers are flexible systems capable of using up to two processors and up to 20 hard disks. Tower to rack mounting kits are available for most TX systems to help you move to a consolidated rack infrastructure. TX servers have a tradition of setting record-breaking performance levels. So, whether you use them as tower or rack servers, for file, print or application purposes, you will benefit from record-breaking performance. PRIMERGY TX: a tower of strength.

#### PRIMERGY TX200 S5

The PRIMERGY TX200 S5 is a perfect server for small or decentralized infrastructures in an attractive family design. The PRIMERGY TX200 S5 offers expandability, energy efficiency and dual processor performance. With up to 16 2.5" hard disks, you can save on an external storage unit. The high energy efficiency minimizes costs. Moreover, a maximum of 96GB of RAM, redundancy features, and dual-processor performance allow you to make a great start into virtualization. The PRIMERGY TX200 S5 also lends itself as a departmental, email or web server. A tower to rack conversion kit protects your investment's lifetime. This great system strikes the right balance between price and performance.



# FEATURES AND BENEFITS

| MAIN FEATURES   | BENEFITS  |
|---|---|
| <ul style="list-style-type: none"> <li>■ Xeon® 5500 series Dual, Quad or Turbo Quad-Core processors with Turbo Boost technology, Demand Based Switching, QuickPath Interconnect (QPI) and Internal Memory Management Unit</li> <li>■ Up to 96GB RAM configurable in independent, mirrored, spare or performance modes</li> <li>■ Hot-plug power supply with 89% efficiency (85% efficiency for standard power supply)</li> <li>■ Up to 4 (6 optional) 3,5" hard disks or 8 (16 optional) 2,5" SAS or SATA hard disk drives and 6 expansion slots (4 PCIe Gen 2, 1 PCIe, 1 PCI)</li> <li>■ Hot-plug hard disks (standard), hot-plug redundant power supply unit (optional), redundant fans (optional),</li> <li>■ ServerView Local Service Panel (LSP) (optional)</li> </ul> | <ul style="list-style-type: none"> <li>■ Higher overall productivity thanks to excellent CPU performance.</li> <li>■ Plenty of memory configurable to suit your every need.</li> <li>■ Save energy costs and minimise environmental impact</li> <li>■ Choose among a range of expansion variables to suit your budget and requirements.</li> <li>■ Tailor made availability, offering the security level you need.</li> </ul> |

# TECHNICAL DETAILS

## MAINBOARD

|                                    |  |
|------------------------------------|--|
| <b>Mainboard type</b>              | D 2709                                     |
| <b>Chipset</b>                     | Intel® 5500                                |
| <b>Processor quantity and type</b> | 1 - 2 x Intel® Xeon® processor 5500 series |

## PROCESSOR

|   |
|---|
| Intel® Xeon® processor E5502<br>(2C/2T, 1.86 GHz, SLC: 2 x 256 KB, TLC: 4 MB, Turbo: No, 4.8 GT/s, Mem bus: 800 MHz, 80 W)        |
| Intel® Xeon® processor E5504<br>(4C/4T, 2.00 GHz, SLC: 4 x 256 KB, TLC: 4 MB, Turbo: No, 4.8 GT/s, Mem bus: 800 MHz, 80 W)        |
| Intel® Xeon® processor E5506<br>(4C/4T, 2.13 GHz, SLC: 4 x 256 KB, TLC: 4 MB, Turbo: No, 4.8 GT/s, Mem bus: 800 MHz, 80 W)        |
| Intel® Xeon® processor E5520<br>(4C/8T, 2.26 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 1/1/2/2, 5.86 GT/s, Mem bus: 1066 MHz, 80 W) |
| Intel® Xeon® processor E5530<br>(4C/8T, 2.40 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 1/1/2/2, 5.86 GT/s, Mem bus: 1066 MHz, 80 W) |
| Intel® Xeon® processor E5540<br>(4C/8T, 2.53 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 1/1/2/2, 5.86 GT/s, Mem bus: 1066 MHz, 80 W) |
| Intel® Xeon® processor L5506<br>(4C/4T, 2.13 GHz, SLC: 4 x 256 KB, TLC: 4 MB, Turbo: No, 4.8 GT/s, Mem bus: 800 MHz, 60 W)        |
| Intel® Xeon® processor L5520<br>(4C/8T, 2.26 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 1/1/2/2, 5.86 GT/s, Mem bus: 1066 MHz, 60 W) |
| Intel® Xeon® processor L5530<br>(4C/8T, 2.40 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 1/1/2/2, 5.86 GT/s, Mem bus: 1066 MHz, 60 W) |
| Intel® Xeon® processor X5550<br>(4C/8T, 2.66 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 2/2/3/3, 6.4 GT/s, Mem bus: 1333 MHz, 95 W)  |
| Intel® Xeon® processor X5560<br>(4C/8T, 2.80 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 2/2/3/3, 6.4 GT/s, Mem bus: 1333 MHz, 95 W)  |
| Intel® Xeon® processor X5570<br>(4C/8T, 2.93 GHz, SLC: 4 x 256 KB, TLC: 8 MB, Turbo: 2/2/3/3, 6.4 GT/s, Mem bus: 1333 MHz, 95 W)  |

|                                      |  |
|--------------------------------------|--|
| <b>Memory slots</b>                  | 12 (6 DIMMs per CPU, 3 channels with 2 slots per channel)  |
| <b>Memory slot type</b>              | DIMM (DDR3)  |
| <b>Memory capacity (min. - max.)</b> | 1 GB - 96 GB   |
| <b>Memory protection</b>             | Advanced ECC<br>Memory Scrubbing<br>SDDC (Chipkill™)<br>Hot-spare memory support<br>Memory Mirroring support |

|                     |  |
|---------------------|--|
| <b>Memory notes</b> | max. 96 GB registered, min. 1 GB unbuffered;<br>memory mirroring with 2 identical modules, hot-spare memory with three identical modules per channel |
|---------------------|--|

## MEMORY MODULES INDEPENDENT MODE

|  |
|--|
| 1 GB (1 module(s) 1 GB) DDR3, unbuffered, ECC, 1066 MHz, PC3-8500  |
| 2 GB (1 module(s) 2 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500  |
| 2 GB (1 module(s) 2 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600 |
| 2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1066 MHz, PC3-8500  |
| 4 GB (1 module(s) 4 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500  |
| 4 GB (1 module(s) 4 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600 |
| 8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500  |
| 8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600 |

## MEMORY MODULES MIRRORED MODE

|   |
|---|
| 4 GB (2 module(s) 2 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500   |
| 4 GB (2 module(s) 2 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600  |
| 8 GB (2 module(s) 4 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500   |
| 8 GB (2 module(s) 4 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600  |
| 16 GB (2 module(s) 8 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500  |
| 16 GB (2 module(s) 8 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600 |

|  |   |
|--|---|
| <b>MEMORY MODULES PERFORMANCE MODE</b> | 6 GB (3 module(s) 2 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500   |
|  | 6 GB (3 module(s) 2 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600  |
|  | 12 GB (3 module(s) 4 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500  |
|  | 12 GB (3 module(s) 4 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600 |
|  | 24 GB (3 module(s) 8 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500  |
|  | 24 GB (3 module(s) 8 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600 |

|                               |  |
|-------------------------------|--|
| <b>INTERFACES</b>             |  |
| <b>USB ports</b>              | 10 x USB 2.0 (3x front USB, 4x rear USB 3x intern for Backup, USSD and internal USB)   |
| <b>Graphics (15-pin)</b>      | 1 x VGA  |
| <b>Serial 1 (9-pin)</b>       | 1 x serial RS-232-C (9 pin), usable for iRMC S2 or System or common use  |
| <b>Serial 2 (9-pin)</b>       | 1 x serial RS-232-C (9 pin), optional - occupies an unused slot  |
| <b>LAN / Ethernet (RJ-45)</b> | 1 x Gbit/s Ethernet (Intel Hartwell)   |
| <b>Service LAN (RJ45)</b>     | 1 x dedicated Service LAN port for iRMC (10/100 Mbit/s)<br>Service LAN traffic can be switched to shared onboard Gbit LAN port |

|   |   |
|---|---|
| <b>ONBOARD OR INTEGRATED CONTROLLER</b> |   |
| <b>SATA Controller</b>                  | ICH10R, 6-port SATA (4x for internal hard disks, 2x for accessible drives)  |
| <b>SATA Controller type notes</b>       | On board SATA controller supports RAID levels 0, 1, 10  |
| <b>Remote Management Controller</b>     | Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible |
| <b>Trusted Platform Module (TPM)</b>    | Infineon / separate module; TCG V1.2 compliant (option)   |

|                                      |  |
|--------------------------------------|--|
| <b>SLOTS</b>                         |  |
| <b>PCI-Express 2.0 x4 (mech. x8)</b> | 2 x full height (1x long, 1x short)  |
| <b>PCI-Express 2.0 x8</b>            | 2 x full height (1x notched, thus usable for x16 cards operating in x8 mode)   |
| <b>PCI-Express x4 (mech. x8)</b>     | 1 x full height  |
| <b>PCI slots</b>                     | 1 x  |
| <b>Slot Notes</b>                    | PCI slot: 32-bit / 33 MHz, 5 V; in SAS-configurations 1x PCI-Express slot is occupied by the modular RAID-Controller |

|                                    |  |
|------------------------------------|--|
| <b>DRIVE BAYS</b>                  |  |
| <b>Hard disk bay configuration</b> | 4x 3.5-inch, for SAS / SATA or 8x 2.5-inch for SAS/SATA optional                                   |
| <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>Optional hard disk bays</b>     | 2 x 3.5-inch hot-plug SAS/SATA or 8x 2.5-inch hot-plug SAS in HDD box (occupies 2x 5.25-inch bays) |

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|--------------------------|--|
| <b>FAN CONFIGURATION</b> |  |
| <b>Fan configuration</b> | 2 standard fans or 2 redundant fans (only available in combination with hot plug redundant power supply) |

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|--------------------------|--|
| <b>OPERATING PANEL</b>   |  |
| <b>Operating buttons</b> | On/off switch<br>NMI button<br>Reset button  |
| <b>Status LEDs</b>       | System status (amber / yellow)<br>Identification (blue)<br>Hard disks access (green)<br>Power (amber / green)<br>At system rear side:<br>System status (amber / yellow)<br>Identification (blue)<br>LAN connection (green)<br>LAN speed (green / yellow) |
| <b>Service display</b>   | Optional:<br>ServerView Local Service Panel (LSP)  |

**BIOS**

|                      |   |
|----------------------|---|
| <b>BIOS features</b> | ROM based setup utility<br>Recovery BIOS<br>BIOS settings save and restore<br>Local BIOS update from USB device<br>Online update tools for main Windows and Linux versions<br>Local and remote update via ServerView Update Manager<br>SMBIOS V2.4<br>Remote PXE boot support |
|----------------------|---|

**SUPPORTED OPERATING SYSTEMS**

|                                      |   |
|--------------------------------------|---|
| <b>Supported operating systems</b>   | Microsoft® Windows Server® 2008 R2<br>Microsoft® Windows Server® 2008<br>Microsoft® Windows Server® 2003 R2<br>Novell SUSE Linux Enterprise Server<br>Red Hat Enterprise Linux<br>VMware Infrastructure<br>VMware vSphere 4.0<br>Note: Support of other Linux derivatives on demand |
| <b>Operating system release link</b> | <a href="http://ts.fujitsu.com/software">http://ts.fujitsu.com/software</a><br><a href="http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421">http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421</a>                                  |

**SERVER MANAGEMENT**

|                                |  |
|--------------------------------|--|
| <b>Standard</b>                | PDA Prefailure Detection and Analysis<br>ASR&R Automatic Server Recovery and Restart<br>ServerView Suite:<br>SV Installation Manager<br>SV Operation Manager<br>SV RAID Manager<br>SV Update Management<br>SV Power Management<br>SV Agents<br>Online update packages for BIOS, firmware drivers and ServerView Agents<br>ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris<br>Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version)<br>ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution<br>ServerView Deployment Manager (fully functional 30-day trial version) |
| <b>Option</b>                  | ServerView Integration for Tivoli TEC®, Tivoli NetView, HP NNM and HP Operations Manager<br>iRMC S2 Advanced Pack  |
| <b>Server Management notes</b> | Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.  |

**DIMENSIONS / WEIGHT**

|                                |  |
|--------------------------------|--|
| <b>Floor-stand (W x D x H)</b> | 205 (306) x 584 x 444 mm   |
| <b>Rack (W x D x H)</b>        | 482 x 570 x 220 mm   |
| <b>Dimension notes</b>         | Floorstand Width 306 mm with tilt protection; depth measured excludes handles on redundant PSU. Rack depth excludes handles of redundant PSU and rack front. |
| <b>Mounting Depth Rack</b>     | 596 mm   |
| <b>Height Unit Rack</b>        | 5 U  |
| <b>Weight</b>                  | up to 36,8 kg  |
| <b>Weight notes</b>            | Actual weight may vary depending on configuration  |
| <b>Rack integration kit</b>    | Rack integration kit as option   |

**ENVIRONMENTAL**

|                                      |   |
|--------------------------------------|---|
| <b>Noise emission</b>                | Measured according to ISO 7779 and declared according to ISO 9296 |
| <b>Sound pressure (LpAm)</b>         | 34 dB(A) (idle) / 36 dB(A) (operating)                            |
| <b>Sound power (LWA; 1B = 10dB)</b>  | 5.2 B (idle) / 5.7 B (operating)                                  |
| <b>Noise notes / description</b>     | measured with standard fans and PSU                               |
| <b>Operating ambient temperature</b> | 10 - 35°C   |
| <b>Operating relative humidity</b>   | 10 - 85 % (non condensing)  |

**ELECTRICAL VALUES**

|                                   |   |
|-----------------------------------|---|
| <b>Power supply configuration</b> | 1x standard, 1x redundant or 2x redundant |
|-----------------------------------|---|

**ELECTRICAL VALUES**

|  |  |
|--|--|
| <b>Max. output of single power supply</b>    | 685 W  |
| <b>Standard power supply output</b>          | 700 W  |
| <b>Hot-plug power supply output</b>          | 800 W  |
| <b>Hot-plug power supply redundancy</b>      | Yes  |
| <b>Rated voltage range</b>                   | 100 - 240 V  |
| <b>Rated frequency range</b>                 | 47 - 63 Hz   |
| <b>Rated current max.</b>                    | 9.5 - 4.0A   |
| <b>Rated current in basic configuration</b>  | 1,3 0.6A   |
| <b>Active power min. (per system unit)</b>   | 111 W  |
| <b>Active power max. (per system unit)</b>   | 461 W  |
| <b>Apparent power max. (per system unit)</b> | 490 VA   |
| <b>Heat emission</b>                         | 1659.6 kJ/h (1573.0 BTU/h)   |
| <b>Power Supply Notes</b>                    | In case of using an UPS we recommend to select a 1500VA/1000 W type as a minimum, because high power peaks might be possible when switching over to battery! |

**ENERGY STAR® 1.0 CERTIFIED CONFIGURATIONS**

The following products use less energy and reduce greenhouse gas emissions by meeting the strict Energy Star guidelines.

LKN:T2005S0003IN (See web site below for configuration details)



[http://ts.fujitsu.com/products/standard\\_servers/e\\_efficient.html](http://ts.fujitsu.com/products/standard_servers/e_efficient.html)

**COMPLIANCE**

|                              |   |
|------------------------------|---|
| <b>Germany</b>               | TÜV GS  |
| <b>Europe</b>                | CE Class A *  |
| <b>USA/Canada</b>            | CSAc/us<br>ULc/us<br>FCC Class A  |
| <b>Global</b>                | CB<br>RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronical equipment)  |
| <b>Japan</b>                 | VCCI Class A + JIS 61000-3-2  |
| <b>Australia/New Zealand</b> | C-Tick  |
| <b>Taiwan</b>                | BSMI  |
| <b>Compliance notes</b>      | 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. |
| <b>Compliance link</b>       | <a href="https://sp.ts.fujitsu.com/sites/certificates/default.aspx">https://sp.ts.fujitsu.com/sites/certificates/default.aspx</a>   |

# COMPONENTS

## HARD DISK DRIVES

|   |
|---|
| SSD SATA, 3 Gb/s, 64 GB, SLC, hot-plug, 2.5-inch, enterprise              |
| SSD SATA, 3 Gb/s, 32 GB, SLC, hot-plug, 2.5-inch, enterprise              |
| HDD SATA, 3 Gb/s, 750 GB, 7200 rpm, hot-plug, 3.5-inch, business critical |
| HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, business critical |
| HDD SATA, 3 Gb/s, 320 GB, 5400 rpm, hot-plug, 2.5-inch, economic          |
| HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, hot-plug, 3.5-inch, business critical |
| HDD SATA, 3 Gb/s, 160 GB, 5400 rpm, hot-plug, 2.5-inch, economic          |
| HDD SATA, 3 Gb/s, 2 TB, 7200 rpm, hot-plug, 3.5-inch, business critical   |
| HDD SATA, 3 Gb/s, 1 TB, 7200 rpm, hot-plug, 3.5-inch, business critical   |
| HDD SAS, 6 Gb/s, 600 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise        |
| HDD SAS, 6 Gb/s, 450 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise        |
| HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise        |
| HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise        |
| HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise        |
| HDD SAS, 6 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise        |
| HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise         |
| HDD SAS, 3 Gb/s, 600 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise        |
| HDD SAS, 3 Gb/s, 450 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise        |
| HDD SAS, 3 Gb/s, 300 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise        |
| HDD SAS, 3 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise        |
| HDD SAS, 3 Gb/s, 146 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise        |
| HDD SAS, 3 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise        |
| HDD SAS, 3 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise        |
| HDD SAS, 3 Gb/s, 73 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise         |
| HDD SAS, 3 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise         |

## TAPE DRIVES

|  |
|--|
| DDS Gen5, 36 GB , 3 MB/s, half height, USB 2.0                           |
| DDS Gen6, 80 GB , 6 MB/s, half height, SCSI U160                         |
| DDS Gen6, 80 GB , 6 MB/s, half height, USB 2.0                           |
| LTO2HH Ultrium, 200 GB , 24 MB/s, half height, SAS 3Gb/s                 |
| LTO2HH Ultrium, 200 GB , 24 MB/s, half height, SCSI U160                 |
| LTO3HH Ultrium, 400 GB , 60 MB/s, half height, SAS 3Gb/s                 |
| LTO4HH Ultrium, 800 GB , 120 MB/s, half height, SAS 3Gb/s                |
| RDX Drive, 80 GB, 160 GB, 320 GB, 500 GB , 25 MB/s, half height, USB 2.0 |

## OPTICAL DRIVES

|  |
|--|
| Blu-ray Disc™ Combo Drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I                       |
| Blu-ray Disc™ Combo Drive, (6x BD-ROM; 16x DVD; 40x CD), half height, SATA I                   |
| DVD-ROM, (16xDVD; 48xCD), half height, SATA I  |
| DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I |
| DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I   |

## SCSI / SAS CONTROLLER

|   |
|---|
| SCSI Ctrl 320 MB 1ch int/ext PCIe x1              |
| SAS Ctrl 3 Gb 4 ports int. / 4 ports ext. PCIe x4 |

**RAID CONTROLLER**

RAID 5/6 Ctrl, SAS 6 Gb, LSI , 8 ports ext.  
 RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS2108)

RAID 5/6 Ctrl, SAS/SATA 3 Gb, LSI MegaRAID SAS8880E, 8 ports ext.  
 RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, no BBU support (based on LSI 1078)

Integrated RAID 5/6 Ctrl, SAS 6 Gb, Fujitsu , 8 ports int.  
 RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS2108)

Integrated RAID 5/6 Ctrl, SAS/SATA 3 Gb, RAID 5/6 SAS based on LSI MegaRAID 256MB, 8 ports int.  
 RAID level: 0, 1, 10, 5, 50, 6, 60, 256 MB Cache, optional BBU (based on LSI SAS1078)

Integrated RAID 5/6 Ctrl, SAS/SATA 3 Gb, 8 ports int.  
 RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS1078)

Integrated RAID 0/1 Ctrl, SAS/SATA 6 Gb, Fujitsu , 8 ports int.  
 RAID level: 0, 1, 10, no BBU support (based on LSI SAS2008)

Integrated RAID 0/1 Ctrl, SAS/SATA 3 Gb, 8 ports int.  
 RAID level: 0, 1, 1E, no BBU support (based on LSI 1068e)

Integrated RAID 0/1 Ctrl, SAS/SATA 3 Gb, 4 ports int.  
 RAID level: 0, 1, 1E, no BBU support , for internal SAS tapes (based on LSI 1064e)

**FIBRE CHANNEL CONTROLLER**

Fibre Channel Ctrl 1 x 4 Gb Emulex LPe1150 MMF LC  
 Fibre Channel Ctrl 2 x 4 Gb Emulex LPe11002 MMF LC  
 Fibre Channel Ctrl 1 x 4 Gb Qlogic QLE2460 MMF LC  
 Fibre Channel Ctrl 2 x 4 Gb Qlogic QLE2462 MMF LC  
 Fibre Channel Ctrl 2 x 8 Gb Emulex LPe12002 MMF LC

**LAN CONTROLLER**

Ethernet Ctrl 1 x 1 Gb Intel® Gigabit CT Desktop Adapter  
 Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 PF Server Adapter  
 Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 PT Server Adapter  
 Ethernet Ctrl 2 x 10 Gb Intel® 10 Gigabit XF SR Dual Port Server Adapter  
 Ethernet Ctrl 2 x 1 Gb Intel® PRO/1000 PT Dual Port Server Adapter  
 Ethernet Ctrl 4 x 1 Gb Intel® PRO/1000 PT Quad Port Server Adapter

**RACK INFRASTRUCTURE**

Cable Arm 2U for 3rd party racks  
 Cable Management for 19-inch DataCenter / PRIMECENTER Racks  
 Rackmount kit full extraction (760mm), tool less mounting

**WARRANTY**

**Standard Warranty** 3 years

**Service level** On-site Service (depending on country)

**MAINTENANCE AND SUPPORT SERVICES - THE PERFECT EXTENSION**

**Recommended Service** 7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.

**Spare Parts availability** 5 years

**Service Weblink** <http://ts.fujitsu.com/Supportservice>

#### FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu PRIMERGY TX200 S5, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

##### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

##### Computing Products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

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