

Data Sheet

Fujitsu PRIMERGY TX200 S7 Dual socket Intel® Xeon® processor tower server

Well-balanced price- performance

PRIMERGY TX tower servers are ideal for use in SMEs or branch offices. They increase operational efficiency by providing rock solid, record-breaking, energy efficient performance. That performance is built on 20-years of pioneering work in Green IT. As a customer, you benefit from a reduction in your organization's environmental impact and lower running costs. The reliability is proven by testing the machines through 5000 boot cycles – far more than other vendors do. PRIMERGY TX servers are also easy to manage via the PRIMERGY ServerView Suite, reducing IT admin workload and costs. Plus, tower to rack conversion kits are available for most TX systems, ensuring investment protection.

PRIMERGY TX200 S7

The PRIMERGY TX200 S7: a perfect server for SMEs, branch offices or virtualized environments in an attractive design. It offers dual processor performance combined with expandability and energy efficiency. With up to 16 2.5-inch hard disk drives, you can save on an external storage unit. The high energy efficiency minimizes costs. Moreover, a maximum of 192 GB of memory, redundancy features, and the Intel® Xeon® E5-2400 processor family performance allow you to make a great start into virtualization. The PRIMERGY TX200 S7 also lends itself as a database or communication server. A tower to rack conversion kit protects your investment's lifetime. This great system strikes the right balance between price and performance.



Features & Benefits

Main Features	Benefits
Dual-processor performance <ul style="list-style-type: none">■ Intel® Xeon® E5-2400 processor family with up to 8 core operation, 12 MB shared cache, Internal Memory Management Unit (3 channels of DDR3 memory) and Intel® Turbo Boost Optimization	<ul style="list-style-type: none">■ Higher overall productivity with leading-edge technology and the performance of up to two processors!■ Plenty of memory configurable to suit your every need: file, print, database or virtualization server■ Save energy costs and minimize the environmental impact■ Choose among a range of expansion variables to suit your budget and requirements■ Tailor made availability, offering the security level you need
Suits memory-hungry applications <ul style="list-style-type: none">■ Up to 192 GB RAM configurable in independent, mirrored, spare or performance modes	
Efficient operation <ul style="list-style-type: none">■ Hot-plug power supply with 94 % efficiency (90 % efficiency for standard power supply)	
Room for further growth <ul style="list-style-type: none">■ Up to 8 3.5-inch hard disks or 16 2.5-inch SAS or SATA hard disk drives and 6 expansion slots	
Stable and reliable <ul style="list-style-type: none">■ Hot-plug hard disks included as standard, plus optional: hot-plug redundant power supply units, redundant fans or ServerView Local Service Panel (LSP)	

Technical details

PRIMERGY TX200 S7

Housing types	Tower	Tower	Tower	Tower
Storage drive architecture	3.5-inch	3.5-inch	2.5-inch	2.5-inch
Power supply	Standard	Hot-plug	Standard	Hot-plug

Mainboard

Mainboard type	D 3099
Chipset	Intel® C602
Processor quantity and type	1 - 2 x Intel® Xeon® processor E5-2400 product family

Processor

Intel® Xeon® processor E5-2403 (4C/4T, 1.80 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)
Intel® Xeon® processor E5-2407 (4C/4T, 2.20 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)
Intel® Xeon® processor E5-2420 (6C/12T, 1.90 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1333 MHz, 95 W)
Intel® Xeon® processor E5-2430 (6C/12T, 2.20 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1333 MHz, 95 W)
Intel® Xeon® processor E5-2430L (6C/12T, 2.00 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1333 MHz, 60 W)
Intel® Xeon® processor E5-2440 (6C/12T, 2.40 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1333 MHz, 95 W)
Intel® Xeon® processor E5-2450 (8C/16T, 2.10 GHz, TLC: 20 MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1600 MHz, 95 W)
Intel® Xeon® processor E5-2470 (8C/16T, 2.30 GHz, TLC: 20 MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1600 MHz, 95 W)

Memory slots	12 (6 DIMMs per CPU, 3 channels with 2 slots per channel)
Memory slot type	DIMM (DDR3)
Memory capacity (min. - max.)	2 GB - 192 GB
Memory protection	Advanced ECC Memory Scrubbing SDDC (Chipkill™) Rank sparing memory support Memory Mirroring support

Memory notes max.192 GB registered; min. 2 GB unbuffered; Memory Mirroring with identical modules in both channel pairs of a bank (2 modules per bank). Rank sparing with identical modules within the same channel. Performance Mode with identical modules in all channels of each bank per CPU.

Memory options	4 GB (1 module(s) 4 GB) DDR3 LV, registered, ECC, 1600 MHz, PC3-12800, DIMM 8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1600 MHz, PC3-12800, DIMM 16 GB (1 module(s) 16 GB) DDR3 LV, registered, ECC, 1600 MHz, PC3-12800, DIMM
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Memory options	2 GB (1 module(s) 2 GB) DDR3 LV, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM 4 GB (1 module(s) 4 GB) DDR3 LV, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM
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Interfaces

USB ports	9 x USB 2.0 (2 x front USB, 4 x rear USB 3 x internal for backup, UFM and internal USB)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x serial RS-232-C (9 pin), usable for iRMC S3 or system or common use
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet (Intel Hartwell)
Service LAN (RJ45)	1 x dedicated management LAN port for iRMC S3 (10/100/1000 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port

Onboard or integrated Controller

RAID controller	additional RAID controller options are described under Components RAID controller
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Onboard or integrated Controller

SATA Controller	Intel® C602, 6-port SATA (4x for internal hard disks, 2x for accessible drives)
SATA controller type notes	On board SATA controller supports RAID levels 0, 1, 10
Remote Management Controller	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller) IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon / separate module; TCG V1.2 compliant (option)

Slots

PCI-Express 3.0 x4 (mech. x8)	2 x Full height 280 mm length
PCI-Express 3.0 x16	2 x Full height first slot: 280 mm length, second slot: 170 mm length (only available with second CPU)
PCI-Express 2.0 x4 (mech. x8)	1 x Full height 230 mm length; preferred RAID slot
PCI-slots	1 x PCI 32/33 MHz, 1x long, 5V
Slot Notes	in SAS configuration 1x PCI-Express occupied by modular RAID controller

Drive bays

Storage drive bays	3.5-inch or 2.5-inch hot-plug SAS/SATA	
Accessible drive bays	3 x 5.25/1.6-inch	
Notes accessible drives	All possible options described in relevant system configurator.	
Storage drive bays	Max 8 (4 + 4) x 3.5-inch	Max 16 (8 + 8) x 2.5-inch
Accessible drive bays	3 x 5.25/1.6-inch for 4 x 3.5-inch HDD/SSD, or 2 x 3.5-inch HDD/SSD + 1 x backup drive + local service display 1 x 5.25/0.5-inch for slimline ODD	3 x 5.25/1.6-inch for 8 x 2.5-inch HDD/SSD + backup drive/ ODD, or 8 x 2.5-inch HDD/SSD + slim ODD + local service display

Fan Configuration

Number of fans	4			
Fan configuration	3 + 1 redundant			
Fan notes	redundant fan configuration depends on base unit and is only available in combination with redundant PSU			
Number of fans	3	4	3	4
Fan configuration		3 + 1 redundant		3 + 1 redundant
Fan notes	non redundant / non hot-plug	redundant / non hot-plug	non redundant / non hot-plug	redundant / non hot-plug

Operating panel

Operating buttons	On/off switch NMI button Reset button
Status LEDs	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) CPU status Fan status Hard disk error Temperature CSS (yellow) Memory status PSU status (green/ amber) At system rear side: System status (orange / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)
Service display	Optional: ServerView Local Service Display (LSD)

BIOS

BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support
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Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	Microsoft® Hyper-V Server 2012 Microsoft® Windows Server® 2012 Datacenter Microsoft® Windows Server® 2012 Standard Microsoft® Windows Storage Server 2012 Standard Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Datacenter Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows® Web Server 2008 R2 Microsoft® Windows® Small Business Server 2011 Premium Add-On Microsoft® Windows® Small Business Server Standard 2011 Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Standard VMware vSphere™ 5.0 Embedded VMware vSphere™ 5.0 VMware vSphere™ 4.1 VMware vSphere™ 4.1 Embedded VMware vSphere™ 4.1 Installable Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Novell® SUSE Linux Enterprise Server 10 with XEN Red Hat® Enterprise Linux 6 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Citrix® XenServer®
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Operating system notes	Support of other Linux derivatives on demand

Server Management

Standard	ServerView Suite - Deploy SV Installation Manager SV Scripting Toolkit SV Deployment Manager (30-day trial version) ServerView Suite - Control SV Operations Manager incl. PDA and ASR & R (Prefailure and Analysis; Automatic Server Recovery and Restart) SV Performance Management SV Power Management SV RAID Manager ServerView Suite - Maintain SV Remote Management (iRMC) SV Update Management (BIOS, Firmware, Windows Drives and SV Agents) SV Asset Management SV Online Diagnostics ServerView Suite - Integrate SV Integration packs e.g. for Microsoft System Center, Nagios, HP, SIM, HP NNM, IBM Tivoli, Altiris Deployment Solutions and others
Option	ServerView Suite - Deploy SV Deployment Manager (full version) ServerView Suite - Maintain iRMC Advanced Pack incl. Advanced Video Redirection (AVR) and Remote Storage ServerView Suite - Dynamize SV Virtual-IO Manager (VIOM) SV Resource Orchestrator Virtual Edition (ROR VE) SV Resource Orchestrator Cloud Edition (ROR CE) ServerView Suite - Integrate SV Integration pack for Fujitsu ManageNow® solution
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.

Dimensions / Weight

Floor-stand (W x D x H)	177 x 651 x 456 mm
Rack (W x D x H)	483 x 611 x 177 mm
Dimension notes	Floorstand Width 177 mm without tilt protection (420 mm with tilt protection); depth measured includes handles on redundant PSU. Rack depth includes handles of redundant PSU, excludes rack handles / front
Height Unit Rack	4 U
Weight	16 kg - 29 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option

Environmental

Operating ambient temperature	10 - 35 °C
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	22 dB(A) idle mode/ 22 dB(A) operation mode with low noise mode; 30 dB(A) idle mode/ 30 dB(A) operation mode with SAS HDDs; 36 dB(A) idle mode/ 36 dB(A) operation mode with HDD extension boxes;
Sound power (LWAd; 1B = 10dB)	4,0 B idle / 4,0 B operation mode with low noise mode; 4,8 idle mode/ 4,8 operation mode with SAS HDDs; 5,4 B idle mode/ 5,4 B operation mode with HDD extension boxes;
Noise notes	Noise emissions and operation modes depend on system configuration. Availability of the low noise mode depends on system configuration. To order an eligible system use the checkbox Enabling low noise mode in System Architect.

Electrical values

Power supply configuration	Base unit specific: 1x standard power supply or 1x hot-plug power supply or 2x hot plug power supply for redundancy
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Electrical values

Standard power supply output	800 W (90 % efficiency, 80 PLUS gold)
Hot-plug power supply output	450 W or 800 W (94 % efficiency, 80 PLUS platinum)
Hot-plug power supply redundancy	Yes
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Rated current max.	7.6 A The rated current in basic configuration values are pending confirmation.
Active power (min. configuration)	65 W
Active power (max. configuration)	432 W
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect: http://configurator.ts.fujitsu.com/public/
Apparent power (max. configuration)	435 VA
Heat emission	1555.2 kJ/h (1474.0 BTU/h)

Compliance

Germany	TÜV GS
Europe	CE Class A *
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment)
Japan	VCCI Class A + JIS 61000-3-2
China	CCC (planned)
Australia/New Zealand	C-Tick
Taiwan	BSMI
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. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Components

Storage drives

SSD SATA, 6 Gb/s, 400 GB, MLC, hot-plug, 2.5-inch, enterprise
SSD SATA, 6 Gb/s, 200 GB, MLC, hot-plug, 2.5-inch, enterprise
SSD SATA, 6 Gb/s, 100 GB, MLC, hot-plug, 2.5-inch, enterprise
SSD SAS, 6 Gb/s, 400 GB, SLC, hot-plug, 2.5-inch, enterprise
SSD SAS, 6 Gb/s, 400 GB, MLC, hot-plug, 2.5-inch, enterprise
SSD SAS, 6 Gb/s, 200 GB, MLC, hot-plug, 2.5-inch, enterprise
SSD SAS, 6 Gb/s, 100 GB, SLC, hot-plug, 2.5-inch, enterprise
SSD SAS, 6 Gb/s, 100 GB, MLC, hot-plug, 2.5-inch, enterprise
HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SATA, 6 Gb/s, 250 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SATA, 6 Gb/s, 3 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SATA, 6 Gb/s, 2 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SATA, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SATA, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SAS, 6 Gb/s, 900 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 600 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SAS, 6 Gb/s, 450 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
HDD SAS, 6 Gb/s, 450 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 2.5-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, 3 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SAS, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 2.5-inch, business critical

Backup Drives

DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0
DDS Gen6, 80 GB, 6 MB/s, half height, USB 2.0
LTO3HH Ultrium, 400 GB, 60 MB/s, half height, SAS 3Gb/s
LTO4HH Ultrium, 800 GB, 120 MB/s, half height, SAS 6Gb/s
LTO5HH Ultrium, 1500 GB, 140 MB/s, half height, SAS 6Gb/s
RDX Drive, 160 GB, 320 GB, 500 GB, 1 TB, 25 MB/s, half height, USB 2.0
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-ROM; 8x DVD; 24x CD), slimline, SATA I
Blu-ray Disc™ Triple Writer, (6x BD-ROM ; 8x DVD; 24x CD), slimline, 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

SAS Ctrl. 6 Gbit/s 8 ports ext. PCIe Gen2 x8
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RAID Controller	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, LSI RAID Ctrl SAS 6G 1GB LSI, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)
	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU (based on LSI SAS2108)
	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 1GB (D3116), 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)
	RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int. RAID level: 0, 1, 10, No BBU support
Fibre Channel controller	Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Qlogic QLE2560 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Qlogic QLE2562 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Emulex LPe1250 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Emulex LPe12002 MMF LC-style
	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
Communication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCIe x1 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe x8 (Fujitsu)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe x8 (Intel®)
	Ethernet Ctrl. 2 x 1 Gbit/s PCIe x4 (Fujitsu)
	Ethernet Ctrl. 4 x 1 Gbit/s PCIe x4 (Fujitsu)
Graphics add on cards	NVIDIA® Quadro® NVS 300, PCIe x1, 2x DVI/VGA
Warranty	
Standard Warranty	3 years
Service level	Onsite Service (depending on country)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM
Maintenance and Support Services - the perfect extension	
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 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	http://www.fujitsu.com/fts/services

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY TX200 S7, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

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

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX200 S7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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