

# Data Sheet

## Fujitsu PRIMERGY TX100 S2 Server

Enter the world of servers - now with 0-Watt functionality

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.

SMEs. Step into the world of PRIMERGY servers.



### PRIMERGY TX100 S2

PRIMERGY TX100 S2: enter the world of servers. It is the perfect server for SMEs looking to increase efficiency by centralizing their IT tasks, and it offers a great price-performance ratio. Moreover, the TX100 S2 is incredibly silent making it an excellent choice for any office environment. With its revolutionary 0-Watt functionality in off-mode and an 88% efficient power supply unit, the TX100 S2 minimizes costs and the environmental impact. The use of data security features such as ECC memory and optional RAID 5/6 ensures around-the-clock reliability. Finally, the TX100 S2 offers a choice of Intel® processors suited to the needs of



# Features and Benefits

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Main Features	Benefits
<ul style="list-style-type: none"><li>■ The wide array of configurable processors, up to Intel® Xeon® processors 3400 series, plus a range of budget options, make the PRIMERGY TX100 S2 an excellent first server for SMEs</li><li>■ 0-Watt power consumption in off-mode and power supply unit (PSU) with 88% energy efficiency</li><li>■ Low noise levels</li> <li>■ Server reliability and security thanks to the use of components such as Intel® 3420 server chipset, ECC memory, optional Trusted Platform Module (TPM) and optional SATA RAID 5/6</li><li>■ Available with two different base units with a maximum of either 2 or 4 hard disks.</li></ul>	<ul style="list-style-type: none"><li>■ Great price-performance ratio</li> <li>■ Benefit from Fujitsu's pioneering experience in Green IT - save money and minimize the environmental impact</li><li>■ Effective air flow design ensures a silent system for an ergonomic working environment.</li><li>■ Keep business processes going - 24x7</li> <li>■ Flexibility</li></ul>

# Technical details

<b>Housing type</b>	
<b>Hard disk architecture</b>	2 HDD 4 HDD
<b>Mainboard</b>	
<b>Mainboard type</b>	D 2779
<b>Chipset</b>	Intel® 3420
<b>Processor quantity and type</b>	1 x Intel® Celeron® processor / Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Xeon® processor X3400 series
<b>Processor</b>	
	Intel® Celeron® processor G1101 (2C, 2.26 GHz, TLC: 2 MB, Turbo: No, 1066 MHz, 73 W)
	Intel® Core™ i3-540 processor (2C/4T, 3.06 GHz, TLC: 4 MB, Turbo: No, 1333 MHz, 73 W)
	Intel® Core™ i3-550 processor (2C/4T, 3.20 GHz, TLC: 4 MB, Turbo: No, 1333 MHz, 73 W)
	Intel® Pentium® processor G6950 (2C, 2.80 GHz, TLC: 3 MB, Turbo: No, 1066 MHz, 73 W)
	Intel® Xeon® processor X3430 (4C/4T, 2.40 GHz, TLC: 8 MB, Turbo: 1/1/2/3, 1333 MHz, 95 W)
	Intel® Xeon® processor X3440 (4C/8T, 2.53 GHz, TLC: 8 MB, Turbo: 1/1/2/3, 1333 MHz, 95 W)
	Intel® Xeon® processor X3450 (4C/8T, 2.66 GHz, TLC: 8 MB, Turbo: 1/1/4/4, 1333 MHz, 95 W)
<b>Memory slots</b>	4
<b>Memory slot type</b>	DIMM (DDR3)
<b>Memory capacity (min. - max.)</b>	1 GB - 16 GB
<b>Memory protection</b>	ECC
<b>Memory notes</b>	Mix and match possible, with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.
<b>Memory modules</b>	
	1 GB (1 module(s) 1 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
<b>Memory modules notes</b>	Only UDIMM (unbuffered) supported
<b>Interfaces</b>	
<b>USB ports</b>	11 (2 x front, 6 x back, 3 x internal)
<b>Graphics (15-pin)</b>	1 x VGA (ATI ES1000 (64MB) on board)
<b>Serial 1 (9-pin)</b>	1 x RS232
<b>Parallel (25-pin)</b>	1 x ECP / EPP parallel port (25 pin) - optional
<b>LAN / Ethernet (RJ-45)</b>	1 x Gbit/s Ethernet
<b>I/O controller on board</b>	
<b>Serial ATA total</b>	6
<b>RAID Controller</b>	4 port SATA with RAID 0, 1, 10 for HDDs (Intel PCH 3420)
<b>SATA Controller</b>	SATA2 (3GBit)
<b>LAN Controller</b>	Intel® 82578DM, 10/100/1000 Mbit/s Ethernet, PXE-Boot by LAN via PXE-Server, Teaming supported
<b>Trusted Platform Module (TPM)</b>	Infineon / 1.2 (option)
<b>Slots</b>	
<b>PCI-Express 2.0 x4 (mech. x16)</b>	1 x using x4 notched connector
<b>PCI-Express 2.0 x8</b>	2 x

<b>Slots</b>	
PCI slots	1 x
Slot Notes	PCI 32/33 MHz, 3.3V, full-height slot with low-profile-option available
<b>Drive bays</b>	
Hard disk bay configuration	2 or 4 depending on chosen base unit (3.5" easy change SATA). It is not possible to upgrade the system in the field from 2 to 4 hard disks.
Notes accessible drives	1 bay occupied by DVD/DVD-RW 1x 3.5
<b>Drive bays (Base unit specific)</b>	
Hard disk bays	2 <span style="float: right;">4</span>
<b>General software information</b>	
Fan configuration	Silent system fans
Fan notes	Non hot-plug
<b>Operating panel</b>	
Operating buttons	On/off switch
Status LEDs	Power (green)
<b>Operating Systems and Virtualization Software</b>	
Certified or supported operating systems and virtualization software	Microsoft® 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 Server® 2008 R2 Foundation Microsoft® Microsoft® Windows Web Server 2008 R2 Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Standard Microsoft® Microsoft® Windows® Small Business Server 2008 Standard Microsoft® Microsoft® Windows® Small Business Server 2008 Premium Microsoft® Windows Server® 2003 R2 Enterprise Edition Microsoft® Windows Server® 2003 R2 Standard Edition Microsoft® Windows Server® 2003 Web Edition Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 6 Red Hat® Enterprise Linux 5
Operating system release link	<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>
Operating system notes	Support of other Linux derivatives on demand
<b>Server Management</b>	
Standard	ServerView Installation Manager
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.
<b>Dimensions / Weight</b>	
Floor-stand (W x D x H)	203 x 386 x 390 mm
Weight	12 kg
<b>Environmental</b>	
Noise emission	According to ISO9296
Sound pressure (LpAm)	24 dB(A) (idle)/ 24 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	3.9B (idle)/ 3.9B (operating)
Operating ambient temperature	10 - 35°C
Operating temperature note	ETSI 300 019-2-3 Class 3.1
Operating environment	FTS 04230 - Guideline for Data Center (installation locations)

**Environmental**

Operating environment Link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>
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**Electrical values**

Power supply configuration	1
Standard power supply output	250 W
Rated voltage range	100 V - 127 V / 200 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	100 V - 240 V / 6.0 A - 3.0 A
Rated current in basic configuration	100 - 240 V / 1,5 - 0,6 A
Active power (min. configuration)	26 W
Active power (max. configuration)	171 W
Apparent power (max. configuration)	171 VA
Heat emission	615.6 kJ/h (583.5 BTU/h)
Power Supply Notes	Fujitsu patented 0-Watt standby technology

**Compliance**

Germany	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)
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.
Compliance link	<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**

HDD SATA, 160 GB, 7200 rpm, non-hot-plug, 3.5-inch, economic
HDD SATA, 3 Gb/s, 1000 GB, 7200 rpm, non-hot-plug, 3.5-inch, business critical
HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, non-hot-plug, 3.5-inch, business critical
HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, non-hot-plug, 3.5-inch, economic
HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, non-hot-plug, 3.5-inch, business critical

**Hard disk notes**

None of the hard disks for this system are hot-plug.  
Only SATA HDDs supported.

**Tape 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
RDX Drive, 80 GB, 160 GB, 320 GB, 500 GB, 25 MB/s, half height, USB 2.0

**Optical drives**

Blu-ray Disc™ Triple Writer, (4x BD-RW; 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

**RAID Controller**

Integrated RAID 5/6 Ctrl., HDD 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)

**Notes**

The optional BBU is not available for the TX100 S2.

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**LAN Controller**

Ethernet Ctrl. 1 x 1 Gb Intel® Gigabit CT Desktop Adapter  
Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PT Server Adapter  
Ethernet Ctrl. 2 x 1 Gb Fujitsu Eth Ctrl 2x1Gbit PCIe x4 D2735 Cu

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**Warranty**

**Standard Warranty** 1 year  
**Service level** On-site Service (depending on country)  
**Maintenance and Support Services - the perfect extension**  
**Recommended Service** 7x24, Onsite Response Time: 4h.  
**Spare Parts availability** 5 years  
**Service Weblink** <http://ts.fujitsu.com/Supportservice>

# More information

## Fujitsu platform solutions

In addition to Fujitsu PRIMERGY TX100 S2, 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/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu PRIMERGY TX100 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com/Primergy>

## 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 resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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2011-01-28 CE-EN

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