

## Data Sheet

# Fujitsu PRIMERGY TX150 S8 Mono-Socket Intel® Xeon® processor server

The one-processor tower server - maximized!

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 TX150 S8

The PRIMERGY TX150 S8 stands for reliable and expandable server performance for SMEs, branch offices and virtualized environments. New to the PRIMERGY TX150 platform: The Intel® Xeon® E5 processor family provides a maximum of expandability in an one-socket server. Future demand is perfectly covered by 5 PCIe Gen2/3 expansion slots, up to 96 GB of memory and up to 16 hard disk drives. At the same time the optional redundant power supply units and fans ensure stable and reliable computing. And of course: Fujitsu's patented Cool-safe™ concept together with processors of the Intel® Xeon® E5-1400 and E5-2400 family guarantee best energy efficient performance.









## Features and Benefits

Main Features	Benefits
Performance meets energy efficiency	
■ By combining the latest Intel® mono/dual-processor platform	High performance and energy efficiency
and SAS 2.0 hard disks with Fujitsu's engineering, you get best	
performance with low energy consumption	
High availability	= 10 L
■ Hot plug hard disks: choose between max. 8x 3.5-inch or max.	High availability options to suit your business
16x 2.5-inch. Power supply units: choose between standard or	
redundant	
Expandability	
■ Up to 96 GB of memory and 6 expansion slots	■ High expandability - the TX150 S8 grows with your business
Investment protection	
■ The PRIMERGY TX150 S8 can be integrated into a rack infrastructure	■ High versatility - increases your investment's lifetime
with the tower to rack conversion kit	
Service made easy	
■ The green touch points, the system ID card and the customer self-	■ High serviceability - saves your time
service module make servicing the TX150 S8 easier	
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## Technical details

PRIMERGY TX150 S8 Housing types	Tower / Rack	Tower / Rack
Storage drive architecture	3.5-inch	2.5-inch
Power supply	Standard / Hot-plug	Standard / Hot-plug
	Standard / Hot-plug	Standard / Hot-plug
Mainboard		
Mainboard type	D 3079	
Chipset	Intel® C602	
Processor quantity and type	1 x Intel® Pentium® processor / Intel® product family	Xeon® processor E5-1400 product family / Intel® Xeon® processor E5-2400
Processor	Intel® Pentium® processor 1403 (2C/2T, 2.60 GHz, TLC: 5 MB, Turbo: No Intel® Xeon® processor E5-1410	o, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)
	•	es, 6.4 GT/s, Mem bus: 1333 MHz, 80 W)
	•	lo, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)
	•	lo, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)
	•	Yes, 7.2 GT/s , Mem bus: 1333 MHz, 95 W)
	(6C/12T, 2.20 GHz, TLC: 15 MB, Turbo:	Yes, 7.2 GT/s , Mem bus: 1333 MHz, 95 W)
		Yes, 7.2 GT/s , Mem bus: 1333 MHz, 60 W)
		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)
Memory slots	6 (6 DIMMs, 3 channels with 2 slots pe	er channel)
Memory slot type	DIMM (DDR3)	
Memory capacity (min max.)	2 GB - 96 GB	
Memory protection	Advanced ECC Memory Scrubbing SDDC (Chipkill™) Hot-spare memory support Memory Mirroring support	
Memory notes		uffered; Memory Mirroring with identical modules in both channel pairs of a ring with identical modules within the same channel. Performance Mode with och bank per CPU.
Memory options	4 GB (1 module(s) 4 GB) DDR3 LV, reg	istered, ECC, 1600 MHz, PC3-12800, DIMM
		istered, ECC, 1600 MHz, PC3-12800, DIMM
		egistered, ECC, 1600 MHz, PC3-12800, DIMM
Memory options	2 GB (1 module(s) 2 GB) DDR3 IV unb	ouffered, ECC, 1600 MHz, PC3-12800, DIMM
memory options		ouffered, ECC, 1600 MHz, PC3-12800, DIMM
 Interfaces		
USB ports	9 x USB 2.0 (2x front, 4x rear, 3x interr	nal for hackup. HEM and internal HSRN
•	1 x VGA	וסו וטו טפגאעף, טו ויו פווע וווגפווופו טטטן
Graphics (15-pin) Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC or	system or shared
	2 x Gbit/s Ethernet	איזיניוו טו אוופופט
LAN / Ethernet (RJ-45) Service LAN (RJ45)	1 x dedicated management LAN port f Service LAN traffic can be switched to s	

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Interfaces	
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)
Onboard or integrated Controller	
RAID controller	additional RAID controller options are described under Components RAID controller
SATA Controller	Intel® C602, 2 ports used for accessible drives
	4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;
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 max. length
PCI-Express 3.0 x16	1 x Full height 280mm max. length
PCI-Express 2.0 x1 (mech. x16)	1 x Full height 170 mm length
PCI-Express 2.0 x4 (mech. x8)	1 x Full height 230 mm max 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
Notes accessible drives	all possible options described in relevant system configurator
Drive bays (Base unit specific)	
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 3 x 5.25/1.6-inch for 8 x 2.5-inch HDD/SSD + LTO/ODD, or
Accession different supplies	HDD/SSD + 1 x LTO + 1 x LSD 8 x 2.5-inch HDD/SSD + slim DVD + LSD
	1 x 5.25/0.5-inch for slimline ODD
General system information	
Number of fans	4
Fan configuration	3 + 1 redundant
Fan notes	Redundant fan configuration is only available in combination with redundant PSU
Operating panel	
Operating buttons	On/off switch
	NMI button
	Reset button

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Operating panel	
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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
	Remote iSCSI boot support

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#### Operating Systems and Virtualization Software Certified or supported operating Microsoft® Hyper-V Server 2012 systems and virtualization software Microsoft® Windows Server® 2012 Datacenter Microsoft® Windows Server® 2012 Standard Microsoft® Windows Server® 2012 Foundation 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 Essentials 2011 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 VMware vSphere™ 4.0 VMware vSphere™ 4.0 Embedded VMware vSphere™ 4.0 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

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Server Management	
Option Server Management	ServerView Suite - Deploy
Option	SV Deployment Manager (full version)
	ServerView Suite - Maintain
	iRMC Advanced Pack incl. Advanced Video Redirection (AVR) and Remote Storage
	ServerView Suite - Dynamize
	SV Virtual-10 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 - 29 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option
Dimensions / Weight / Environmental (Base unit specific)	
Environmental	
Operating ambient temperature	10 - 35℃
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 / description	Noise emissions and operation modes depend on system configuration.
Electrical values	
Power supply configuration	Base unit specific:
	1x standard power supply or 1x hot-plug power supply or 2x hot plug power supplies for redundancy
Standard power supply output	500 W (90 % efficiency, 80 PLUS gold)
Hot-plug power supply output	450 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.	2.4
Rated current in basic configuration	pending
Active power (min. configuration)	65 W
Active power (max. configuration)	278 W
Apparent power (max. configuration)	296 VA
Heat emission	1000.8 kJ/h (948.6 BTU/h)
Leakage Current	leakage current
Power Supply Notes	power supply notes
Compliance	

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Compliance	
Europe	CE Class A * CE label according to EU directives: Low-Voltage Directive 2006/95/EC, Electromagnetic Compatibility 2004/108/EC EN 300386 EN 50371 EN 55022 EN 55024 EN 60950 - 1 EN 61000-3-2 JEIDA EN 61000-3-3
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI Class A + JIS 61000-3-2
Russia	GOST-R
China	CCC (planned)
Australia/New Zealand	C-Tick (AS / NZS CISPR 22 Class A)
Taiwan	BSMI Class A (CNS 13438, CNS 14336) CNS 13436
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.  Additional compliance with: Kenya:KEBS; Kuwait: KUCAS; Nigeria:SONCap; South Africa:SABS; Belarus: STB; Kazahkstan: GOST-K; Ukraine: SEMPRO  * Warning:  This is a class A product. In a domestic environment this product may cause radio interference in which case the use may be required to take adequate measures.
Compliance link	http://sp.ts.fujitsu.com/sites/certificates/

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## Components

Storage disks	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, 200 GB, SLC, 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
	HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, economic
	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, 3.5-inch, economic
	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, 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
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
Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
optical unives	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. PCle Gen2 x8
RAID Controller	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int.
RAID CONTIONEL	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 (based on LSI SAS2008)
Communication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCle x1 ( Intel® )
communication, network	Ethernet Ctrl. 2 x 10 Gbit/s PCle x8 ( Fujitsu )
	Ethernet Ctrl. 2 x 1 Gbit/s PCle x4 ( Fujitsu )
	Editinica cai. 2 A 1 duius r cie A4 (Tujitsu )
	Ethernet Ctrl. 4 x 1 Gbit/s PCle x4 ( Fujitsu )

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Graphics add on cards	NVIDIA® Quadro® NVS 300, PCIe x1, 2x DVI/VGA
Rack infrastructure	Rack Mount Kit
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks
	Cable Arm 2U for PRIMECENTER- and 3rd-party racks
Warranty	
Standard Warranty	1 year
Service level	On-site Service (depending on country)
Maintenance and Support Servi	ices - the perfect extension
Recommended Service	7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Service Weblink	http://www.fujitsu.com/fts/services

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### More information

#### **Fujitsu OPTIMIZATION Services**

In addition to Fujitsu PRIMERGY TX150 S8, 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 TX150 S8, 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/qlobal/about/environment/



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