

Data Sheet

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

The one-processor tower server - maximized!

PRIMERGY TX150 S8 - Rack Version

The Fujitsu Server 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 innovative Cool-safe™ concept together with processors of the Intel® Xeon® E5-1400 and E5-2400 family guarantee best energy efficient performance. The dedicated rack model can easily be integrated in a rack cabinet.



Features & Benefits

Main Features	Benefits
Performance meets energy efficiency <ul style="list-style-type: none">■ By combining the latest Intel® mono/dual-processor platform and SAS 2.0 hard disks with Fujitsu's engineering, you get best performance with low energy consumption	<ul style="list-style-type: none">■ High performance and energy efficiency
High availability <ul style="list-style-type: none">■ Hot plug hard disks: choose between max. 8x 3.5-inch or max. 16x 2.5-inch. Power supply units: choose between standard or redundant	<ul style="list-style-type: none">■ High availability options to suit your business
Expandability <ul style="list-style-type: none">■ Up to 96 GB of memory and 6 expansion slots	<ul style="list-style-type: none">■ High expandability - the TX150 S8 grows with your business
The tower server for your rack infrastructure <ul style="list-style-type: none">■ Dedicated rack server models available	<ul style="list-style-type: none">■ The PRIMERGY TX150 S8 rack models can be easily integrated into your rack infrastructure
Service made easy <ul style="list-style-type: none">■ The green touch points, the system ID card and the customer self-service module make servicing the TX150 S8 easier	<ul style="list-style-type: none">■ High serviceability - saves your time

Technical details

PRIMERGY TX150 S8 - Rack Version

Base unit	PRIMERGY TX150 S8 LFF	PRIMERGY TX150 S8 LFF	PRIMERGY TX150 S8 SFF	PRIMERGY TX150 S8 SFF
Housing types	Rack	Rack	Rack	Rack
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 3079
Chipset	Intel® C602
Processor quantity and type	1 x Intel® Pentium® processor / 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: 1,066 MHz, 80 W)
	Intel® Xeon® processor E5-2407 (4C/4T, 2.20 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,066 MHz, 80 W)
	Intel® Xeon® processor E5-2420 (6C/12T, 1.90 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,333 MHz, 95 W)
	Intel® Xeon® processor E5-2430 (6C/12T, 2.20 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,333 MHz, 95 W)

Memory slots	6 (6 DIMMs, 3 channels with 2 slots per 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	max. 96 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, 1,600 MHz, PC3-12800, DIMM, single rank
	8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank
	16 GB (1 module(s) 16 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank

Interfaces

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

Onboard or integrated Controller

RAID controller	All hardware storage controller options are described under Components
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
LAN Controller	2 x 10/100/1000 Mbit/s Ethernet. 2 x Intel® 82574L Gigabit Ethernet Controller
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 / TPM 1.2 module; TCG compliant (option)

Slots

PCI-Express 3.0 x4 (mech. x8)	2 x Full height 280 mm length
PCI-Express 3.0 x16	1 x Full height 280 mm 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 length; preferred RAID slot
PCI-slots	1 x PCI 32/33 MHz, 1x long, 5V

Slots				
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			
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 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	
General system information				
Fan notes	Redundant fan configuration 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 Remote iSCSI boot support			

Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	Microsoft® Hyper-V Server 2012 R2
	Microsoft® Windows Server® 2012 R2 Datacenter
	Microsoft® Windows Server® 2012 R2 Standard
	Microsoft® Windows Server® 2012 R2 Essentials
	Microsoft® Windows Server® 2012 R2 Foundation
	Microsoft® Windows Storage Server 2012 R2 Standard
	Microsoft® Hyper-V Server 2012
	Microsoft® Windows Server® 2012 Datacenter
	Microsoft® Windows Server® 2012 Standard
	Microsoft® Windows Server® 2012 Essentials
	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 Server® 2008 R2 Foundation
	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
	Microsoft® Windows® Web Server 2008
	VMware vSphere™ 6.0
	VMware vSphere™ 5.5
	VMware vSphere™ 5.1 Embedded
	VMware vSphere™ 5.1
	VMware vSphere™ 5.0 Embedded
	VMware vSphere™ 5.0
	VMware vSphere™ 4.1
	VMware vSphere™ 4.1 Embedded
	VMware vSphere™ 4.1 Installable
	SUSE® Linux Enterprise Server 12
	SUSE® Linux Enterprise Server 11
	SUSE® Linux Enterprise Server 10
	SUSE® Linux Enterprise Server 10 with XEN
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
	Red Hat® Enterprise Linux 5
Red Hat® Enterprise Linux 5 with XEN	
Oracle® Linux 6	
Univention Corporate Server 3.x	

Operating system release link

Operating system notes Support of other Linux derivatives on demand

Server Management

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

Dimensions / Weight

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)****Environment****Electrical values**

Power supply configuration	1 x standard power supply or 1 x hot-plug power supply or 2 x hot plug power supply for redundancy depending on model
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	284 W
Apparent power (max. configuration)	285 VA
Heat emission (max. configuration)	1022.4 kJ/h (969.0 BTU/h)
Rated current max.	5.0 A (100 V) / 2.4 A (240 V)
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/
Power supply	500W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz 450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz
Power supply notes	Power Safeguard adapts system performance in case the power requirements exceeds supply limits.

Compliance

Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment)
Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
Russia	GOST-R
China	CCC
Australia/New Zealand	C-Tick (AS / NZS CISPR 22 Class A)
Taiwan	BSMI Class A (CNS 13438, CNS 14336) CNS 13436
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

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; Kazakhstan: 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 user may be required to take adequate measures.
-------------------------	--

Components

Backup Drives	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, 1,500 GB, 140 MB/s, half height, SAS 6Gb/s LTO6HH Ultrium, 2,500 GB, 160 MB/s, half height, SAS 6Gb/s 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
 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

Hard disk drives

HDD SATA, 320 GB, 5,400 rpm, non hot plug, 2.5-inch, economic
 HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, economic
 HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, business critical
 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, hot-plug, 3.5-inch, economic
 HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, 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, hot-plug, 3.5-inch, business critical
 HDD SATA, 6 Gb/s, 3 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
 HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 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, 3.5-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, 512e, hot-plug, 2.5-inch, business critical
 HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
 HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 6 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
 HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
 HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
 HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 6 Gb/s, 450 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
 HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
 HDD SAS, 6 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
 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, 3 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
 HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical

Solid-State-Drive	SSD SATA, 6 Gb/s, 800 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, 800 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 480 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, 400 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 240 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, 200 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	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, 100 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
SCSI / SAS Controller	LSI SAS Ctrl 6G 8ext PCIe FH SAS Ctrl. 6 Gbit/s 8 ports ext. PCIe 2.0 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 level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache
	Fujitsu RAID Ctrl SAS 6G 1GB (D3116C), RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)
	Fujitsu RAID Ctrl SAS 6G 1GB (D3116), RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)
	Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, 8 ports int. RAID level: 0, 1, 10, No BBU support
Communication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCIe 1.1 x1 RJ45 (Intel®)
	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 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
Graphics add on cards	NVIDIA® NVS™ 315, PCIe x16, 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	
Warranty period	1 year
Warranty type	Onsite warranty
Product 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 Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY TX150 S8 - Rack Version, 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/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX150 S8 - Rack Version, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

<http://www.fujitsu.com/fts/products/computing/servers/primergy/tower/tx150/>

Fujitsu green policy innovation



Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see http://ts.fujitsu.com/terms_of_use.html

Copyright © Fujitsu Technology Solutions

Disclaimer

Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner

Contact

FUJITSU LIMITED
Mies-van-der-Rohe-Straße 8
80807 München
Germany
Website: www.ts.fujitsu.com
2016-05-01 CE-EN

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded.

Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see http://ts.fujitsu.com/terms_of_use.html

Copyright © Fujitsu Technology Solutions