

DATA SHEET

PRIMERGY TX150 S7

Issue: October 2009

Mono-socket Intel® Xeon® processor server - The one-processor tower server - maximised

Preliminary Data sheet / For internal use only

Company confidential

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 locally or remotely via the 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 to 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.



The PRIMERGY TX150 S7: the right system for SMEs or non-mission-critical decentralized infrastructures where the main focus is on expandability and availability. The expandability and availability come from the 6 expansion slots (5 of which PCIe Gen 2), up to 8x 2.5" hot-plug hard disks. Increase the system's availability and energy efficiency through the use of optional redundant power supplies boasting up to 89% energy efficiency. The TX150 S7 also offers up to the latest generation Intel® Xeon® processor 3400 series single processor platform, delivering excellent energy-efficient performance at an attractive price. The PRIMERGY TX150 S7: the one processor tower server – maximized!



MAIN FEATURES	BENEFITS
By combining the latest Intel® mono-processor platform and SAS 2.0 hard disks with Fujitsu's engineering, you can get great performance with low energy consumption.	High performance and energy efficiency
Hot plug hard disks: choose between max. 4x 3.5 or max. 8x 2.5". Power supply units: choose between standard or redundant.	High availability options to suit your business
Up to 32GB of RAM and 6 expansion slots (5 of which second generation PCIe slots)	High expandability - the TX150 S7 grows with your business.
The PRIMERGY TX150 S7 can be integrated into a rack infrastructure with the tower to rack conversion kit	High versatility - increases your investment's lifetime
The green touch points, the system ID card and the cus-	High serviceability - saves your time









Technical details	
Mainboard	
Mainboard type	D 2759
Chipset	Intel® 3420
Processor quantity and type	1 x Intel® Celeron® processor / Intel® Pentium® / Intel® Xeon® processor 3400 series
Processor	Intel® Xeon® processor X3470 4C/8T, 2.93 GHz, SLC: 4 x 256 KB, TLC: 8 MB (Turbo: 2/2/4/5, 1333 MHz, 95 W)
	Intel® Xeon® processor X3460 4C/8T, 2.80 GHz, SLC: 4 x 256 KB, TLC: 8 MB (Turbo: 1/1/4/5, 1333 MHz, 95 W)
	Intel® Xeon® processor X3450 4C/8T, 2.66 GHz, SLC: 4 x 256 KB, TLC: 8 MB (Turbo: 1/1/4/4, 1333 MHz, 95 W)
	Intel® Xeon® processor X3440 4C/8T, 2.53 GHz, SLC: 4 x 256 KB, TLC: 8 MB (Turbo: 1/1/2/3, 1333 MHz, 95 W)
	Intel® Xeon® processor X3430 4C/4T, 2.40 GHz, SLC: 4 x 256 KB, TLC: 8 MB (Turbo: 1/1/2/3, 1333 MHz, 95 W)
Memory slots	6 1GB or 2GB RDIMM modules: 6 DIMMs max with 2 channels and 3 slots per channel; only for Xeon CPU
Memory slot type	DIMM (DDR3)
Memory capacity (min max.)	1 GB - 32 GB
Memory protection	ECC
Memory notes	4 or 8GB RDIMM and all UDIMM modules: 4 DIMMs max; with 2 channels and 2 slots per channel. UDIMMs (max. 16MB) with all processors; RDIMMs (max. 32 GB) for Xeon CPUs only
Memory options	8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600, DIMM
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	2 GB (1 module(s) 2 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600, DIMM
	1 GB (1 module(s) 1 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
Interfaces	
USB ports	10 x USB 2.0 (3x front, 4x rear, 3x internal)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC or system or shared
Serial 2 (9-pin)	1 x serial RS-232-C (optional)
LAN / Ethernet (RJ-45)	1 x Gbit/s Ethernet
Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S2 (10/100 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port
Onboard or integrated Controlle	er
RAID Controller	Integrated RAID 0/1 or RAID 5/6 controller for SAS base units (occupies one PCIe slot). See under Components RAID controller
SATA Controller	Intel® ICH9R, 2 ports used for accessible drives 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;
Remote Management Controller	Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon / 1.2 (option)
Slots	
PCI Express Gen2 x1	2 x
PCI-Express Gen2 x4	1 x Low profile ready, full height, long 3,3 V
PCI-Express Gen2 x8	2 x short 3,3V
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	
Hard disk bay configuration	4x 3,5-inch, for SAS / SATA or 8x 2,5-inch for SAS/SATA/SSD optional
Accessible drive bays	3 x 5.25/1.6-inch
Notes accessible drives	all possible options described in relevant system configurator

1 standard fan
On/off switch
NMI button
Reset button
System status (amber / yellow)
Identification (blue) Hard disks access (green)
Power (amber / green)
At system rear side:
System status (amber / yellow)
Identification (blue)
LAN connection (green) LAN speed (green / yellow)
Optional:
ServerView Local Service Panel (LSP)
ServerView Local Service Display (LSD)
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
Microsoft® Windows Server® 2008
Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server
Red Hat Enterprise Linux
Note: Support of other Linux derivatives on demand
http://ts.fujitsu.com/software
http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421
ASR&R Automatic Server Recovery and Restart
PDA Prefailure Detection and Anaylsis Online update packages for BIOS, firmware drivers and ServerView Agents
ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris
Deployment Solution ServerView Deployment Manager (fully functional 30-day trial
version)
ServerView Deployment Manager (fully functional 30-day trial version)
iRMC S2 Advanced Pack
ServerView Integration for Tivoli TEC®, Tivoli NetView, HP NNM and HP Operations Manager
Regarding Operating System dependencies and product details for ServerView Suite
Software Products see dedicated Product Data sheets.
Software Products see dedicated Product Data sneets.
Floorstand Width 306 mm with tilt protection
Floorstand Width 306 mm with tilt protection
Floorstand Width 306 mm with tilt protection 5 U
Floorstand Width 306 mm with tilt protection 5 U Weight may vary depending on actual configuration Rack integration kit as option
Floorstand Width 306 mm with tilt protection 5 U Weight may vary depending on actual configuration
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Floorstand Width 306 mm with tilt protection 5 U Weight may vary depending on actual configuration Rack integration kit as option mental (Base unit specific)
Floorstand Width 306 mm with tilt protection 5 U Weight may vary depending on actual configuration Rack integration kit as option

Environmental	
Noise notes / description	only with standard fans and standard PSU
Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Electrical values	
Power supply configuration	Base unit specific: 1x standard power supply or1x hot-plug power supply or 2x hot plug power supply for redundancy
Standard power supply output	350W
Hot-plug power supply output	450W
Hot-plug power supply redundancy	/ Yes
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Rated current max.	TBD TBD
Apparent power max. (per system unit)	TBD VA
Compliance	
Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI
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 fo other reasons can be applied for on request.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx
Components	
Hard disk drives	SSD SATA, 3 Gb/s, 32 GB, hot plug, 2.5-inch
	SATA, 3 Gb/s, 750 GB, 7200 rpm, hot plug, 3.5-inch
	or tirt, o obro, roo ob, recorpin, not plag, old mon
	SATA, 3 Gb/s, 500 GB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 500 GB, 7200 rpm, hot plug, 3.5-inch SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch
Hard disk notes	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software No mix of SAS and SATA HDDs possible
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software No mix of SAS and SATA HDDs possible DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0
	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software No mix of SAS and SATA HDDs possible DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0 DDS Gen6, 80 GB, 6 MB/s, half height, USB 2.0 LTO2HH Ultrium, 200 GB, 24 MB/s, half height, SAS 3Gb/s
Hard disk notes Tape Drives	SATA, 3 Gb/s, 320 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 160 GB, 5400 rpm, hot plug, 2.5-inch SATA, 3 Gb/s, 1 TB, 7200 rpm, hot plug, 3.5-inch SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software No mix of SAS and SATA HDDs possible DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0 DDS Gen6, 80 GB, 6 MB/s, half height, USB 2.0

Optical drives	Blu-ray combo drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
	Blu-ray 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 PCle x1
	SAS Ctrl 3 Gb 4 ports int. / 4 ports ext. PCle x4
RAID Controller	Integrated RAID 5/6 Ctrl, SAS 6 Gb, 8 ports int.
	RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS2108)
	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 port int.
	RAID level: 0, 1, 1E, no BBU support , for internal SAS tapes (based on LSI 1064e)
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 1 Gb Intel® PRO/1000 PT Dual Port Server Adapter
	Ethernet Ctrl 4 x 1 Gb Intel® PRO/1000 PT Quad Port Server Adapter
	x
Rack infrastructure	Cable Arm 2U for 3rd party racks
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks
Warranty	
Standard Warranty	1 year
Service level	On-site Service (depending on country)
Maintenance and Support S	Services - the perfect extension
Recommended Service	7x24, Onsite Response Time: 4h
Service Weblink	http://ts.fujitsu.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230: http://ts.fujitsu.com/aboutus

Take back and Recycling information:

http://ts.fujitsu.com/recycling

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