DATA SHEET

PRIMERGY TX150 S6

Issue: July 2009

Mono socket Quad-Core Intel[®] Xeon[®] UP based Tower Server - World class in quality and redundancy

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.

PRIMERGY TX150 S6

The PRIMERGY TX150 S6 tower server delivers new levels of energy efficient performance with Intel® Xeon® Quad-Core processor 3300 series. This is achieved with up to 1333 MHz FSB clock rate and with Intel's new state-of-the-art multi-core optimized microarchitecture. A server with this processor proves to be a particularly powerful system that can respond quickly to your requirements. Enhance your efficiency when it comes to simultaneous execution of multiple applications and downloading mass data. The processor with the Intel® 3210 chipset also supports virtualization and EM64 technology. This sixth-generation tower server combines high performance with low noise. The 3.5-inch SAS or SATA or 2.5-inch SAS hotplug hard disks can be replaced easily while the server is in operation. High data security is offered thanks to built-in RAID 1 functionality and an optional ibutton RAID 5 implementation for SATA or a modular RAID for SAS configurations. The standard iRMC S2 (integrated Remote Management Controller) offers enhanced system management and graphics based on IPMI 2.0 technology, and the redundant power supply module further increases operational reliability. Dual-Core Xeon® processors and an even more power saving Celeron® processor round off the offering alternatively.



MAIN FEATURES	BENEFITS
ECC, built-in RAID 1 functionality and optional ibutton RAID 5 for SATA or modular RAID for SAS configurations	High security against physical loss of data
Hot-plug HDD infrastructure (standard), Hot-plug redundant PSU (optional) ServerView Local, Service Panel (LSP) optional for customer`s Service on its own	Tailor made availability, offers the security level which is recommended by your individual application demands
Intel Quad-Core processor, provides four execution cores in one physical processor with less power consumption. Energy efficient Intel Celeron processor even more power saving	Allowing the platform to do more in less time, IT depart- ments can consolidate applications and more effectively employ the server with less power consumption
Up to 4x SATA or 4 (6)x SAS/SATA 3.5-inch, up to 8x 2.5-inch SAS hard disks, 6 PCI/PCIe slots, (5 with SAS), 1x Gbit LAN plus extra Service LAN for iRMC S2	Expandability options for further growth
Universal tower-to-rack conversion kit	Investment protection through optional tower to rack con- version kit
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Technical details

PRIMERGY TX150 S6

Housing type					Rack	Rack	Rack	Rack
Hard disk architecture	3.5" SAS/ SATA	3.5" SAS/ SATA	2.5" SAS	2.5" SAS	3.5" SAS/ SATA	3.5" SAS/ SATA	2.5" SAS	2.5" SAS
Power supply	Hotplug	Standard	Hotplug	Standard	Hotplug	Standard	Hotplug	Standard
Mainboard								
Mainboard type	D 2559							
Chipset	Intel [®] 3210)						
Processor quantity and type	1 x Intel [®] Celeron [®] processor / Intel [®] Pentium [®] Dual-Core processor / Intel [®] Xeon [®] processor 3000 sequence							
Processor options	Intel [®] Core	e™2 Duo E	7400 (2C, 2	2.80 GHz, S	LC: 3 MB ,	1066 MHz,	65 W)	
	Intel [®] Pentium [®] E5200 (2C, 2.50 GHz, SLC: 2 MB , 800 MHz, 65 W)							
	Intel [®] Xeo	n® E3110 (2	2C, 3.00 GF	Hz, SLC: 6 N	/IB,1333 M	IHz, 65 W)		
	Intel [®] Xeon [®] E3120 (2C, 3.16 GHz, SLC: 6 MB , 1333 MHz, 65 W)							
	Intel [®] Xeon [®] L3110 (2C, 3.00 GHz, SLC: 6 MB , 1333 MHz, 45 W)							
	Intel [®] Xeon [®] L3360 (4C, 2.83 GHz, SLC: 2 x 6 MB , 1333 MHz, 65 W)							
	Intel [®] Xeon [®] X3220 (4C, 2.40 GHz, SLC: 2 x 4 MB , 1066 MHz, 95 W)							
	Intel [®] Xeon [®] X3360 (4C, 2.83 GHz, SLC: 2 x 6 MB , 1333 MHz, 95 W)							
	Intel [®] Xeon [®] X3370 (4C, 3.00 GHz, SLC: 2 x 6 MB , 1333 MHz, 95 W)							
	Intel® Xeon® X3380 (4C, 3.16 GHz, SLC: 2 x 6 MB , 1333 MHz, 95 W)							
Memory slots	4 (2 banks with 2 slots each)							
Memory slot type	PC2-6400	(unbufferd	DIMM DDF	R2 800 ECC	;)			
Memory capacity (min max.)	1 GB - 8 G	BB						
Memory protection	Advanced	ECC						
Memory notes	Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.							
Memory options	2 GB (1 module(s) with 2 GB) DDR2, 800 MHz, PC2-6400							
	1 GB (1 module(s) with 1 GB) DDR2, 800 MHz, PC2-6400							
Interfaces								
USB ports	8 x USB 2	.0 (1x front,	4x rear, 3x	(internal)				
Graphics (15-pin)	1 x VGA							
Serial 1 (9-pin)	1 x serial I	RS-232-C,	usable for	iRMC or sys	stem or sha	red		
Serial 2 (9-pin)	1 x serial I	RS-232-C (optional)					
Parallel (25-pin)	1 x Centro	nics 25-pin	EPP/ECP	compatible	(option)			
Mouse / Keyboard (PS/2)	2							

Interfaces LAN / Ethernet (RJ-45)	1 x Ghit/e	Ethernet						
Service LAN (RJ45)	1 x Gbit/s Ethernet							
Service LAIN (RJ43)	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								
RAID Controller		RAID 0/1 o Componen			or SAS base	e units (occu	ipies one F	PCIe slot).
SATA Controller		R, 2 ports on ternal SAT			ves 1, 10 for Wir	ndows and L	inux; RAIL	0 5 iButton
LAN Controller		, 10/100/10 ess) via ont		thernet, Ρλ	KE-Boot via	LAN from P	XE server,	iSCSI Boo
Remote Management Controller		Remote Ma ontroller), IF			(iRMC S2, 3	2 MB attach	ned memor	y incl.
Trusted Platform Module (TPM)	Infineon / '	1.2 (option)						
Slots								
PCI-Express x8	2 x short							
PCI-Express x4 (mech. x8)	1 x short							
PCI slots	3 x PCI 32	/33 MHz, 2	x long, 5V					
Slot Notes	in SAS cor	nfiguration 1	Ix PCI-Expi	ress occupi	ed by modu	lar RAID co	ntroller	
Drive bays								
Accessible drive bays	3 x 5.25/1.6-inch 1 x 3.5/1-inch for FDD							
Notes accessible drives	all possible	e options de	escribed in I	elevant sys	stem configu	irator		
Drive bays (Base unit specific)								
Hard disk bays	4 x	4 x	8 x	8 x	4 x	4 x	8 x	8 x
	3.5-inch non hot- plug SATA	3.5-inch hot-plug SAS/SATA	2.5-inch hot-plug SAS	2.5-inch hot-plug SAS	3.5-inch hot-plug SAS/SATA	3.5-inch hot-plug SAS/SATA	2.5-inch hot-plug SAS	2.5-inch hot-plug SAS
Optional hard disk bays	2 x 3.5-inch hot-plug HDD box	2 x 3.5-inch hot-plug HDD box	-	-	2 x 3.5-inch hot-plug HDD box	2 x 3.5-inch hot-plug HDD box	-	-
Operating panel								
Operating buttons	On/off swit NMI buttor Reset butt	า						
Status LEDs	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)							
Service display	Optional: ServerView Local Service Panel (LSP)							
BIOS								
BIOS features	Recovery I BIOS settii Local BIOS Online upo Local and SMBIOS V Remote P2	ngs save ar S update fro late tools fo remote upd	nd restore om USB dev or main Win ate via Ser	dows and L	inux versior date Manag			

Supported operating systems								
Supported operating systems	Microsoft [®] Windows Server [®] 2008 Microsoft [®] Windows Server [®] 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux							
				atives on d	lemand			
Operating system release link	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							
Somer Management								
Server Management Standard	ASR&R							
	PDA							
Option		w Remote N Advanced P		t				
Server Management notes		Operating Products se				t details for	ServerView	Suite
Dimensions / Weight								
Dimension notes	Width 305	mm with til	t protection					
Weight	up to 28 kg)						
Weight notes	Weight ma	iy vary depe	ending on a	ctual config	uration			
Rack integration kit	Rack integ	ration kit as	s option					
Dimensions / Weight (Base unit	specific)							
Floor-stand (W x D x H)		205 x 605 x 444 mm			-	-	-	-
Rack (W x D x H)	-	-	-	-			482 x 642 x 221 mm	
Mounting Depth Rack	-	_	-	_	607 mm	607 mm	607 mm	607 mm
Height Unit Rack					5 U	5 U	5 U	5 U
Environmental								
Noise emission	Measured	according t	o ISO 7779	and declar	ed accordir	ng to ISO 92	296	
Sound pressure (LpAm)	26 dB(A) (i	idle) / 35 dE	B(A) (operat	ing)		-		
Sound power (LWAd; 1B = 10dB)	4.4 B (idle)) / 5.3 B (op	erating)					
Noise notes / description	only with s	tandard fan	is and stand	lard PSU				
Operating ambient temperature	10 - 35°C							
Operating relative humidity	10 - 85 %	(non conde	nsing)					
Electrical values								
Power supply configuration	Base unit s 1x standar		pply or 2x h	ot-plug pov	ver supply (1 + 1 redun	dancy)	
Rated voltage range	100 - 240	V						
Rated frequency range	50 - 60 Hz							
Rated current max.	6 A / 3 A (1	00 V / 240	V)					
Rated current in basic configuration	1.9 A / 0.8 A (100 V / 240 V)							
Active power max. (per system unit)	232 W							
Apparent power max. (per system unit)	263 VA							
Heat emission	835.2 kJ/h	(791.8 BTU))					
Electrical values (Base unit spec	;ific)							
Power supply configuration	2	1	2	1	2	1	2	1
Standard power supply output		350 W		350 W		350 W		350 W
Hot-plug power supply output	400 W	-	400 W	-	400 W	-	400 W	-
Hot-plug power supply redundancy	Yes	No	Yes	No	Yes	No	Yes	No
Compliance								
Germany	GS							
Europe	CE							

Compliance						
USA/Canada	CSAc/us					
00/voundu	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 for other reasons can be applied for on request.					
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx					
Components						
Hard disk drives	SATA, 3 Gb/s, 1000 GB, 7200 rpm, hot plug, 3.5-inch					
	SATA, 3 Gb/s, 750 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, 250 GB, 7200 rpm, hot plug, 3.5-inch					
	SATA, 3 Gb/s, 160 GB, 7200 rpm, hot plug, 3.5-inch					
	SAS, 3 Gb/s, 450 GB, 15000 rpm, hot plug, 3.5-inch					
	SAS, 3 Gb/s, 300 GB, 15000 rpm, hot plug, 3.5-inch					
	SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch					
	SAS, 3 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch					
	SAS, 3 Gb/s, 73 GB, 15000 rpm, hot plug, 3.5-inch					
	SAS, 3 Gb/s, 73 GB, 10000 rpm, hot-plug, 2.5-inch					
Hard disk notes	Mix of 3.5-inch SAS and SATA HDD requires separate HDD cages and RAID sets					
	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.					
	Accessible capacity may vary, also depending on used software					
Tape Drives	DDS Gen5, 36 GB , 3 MB/s, half height, USB 2.0					
	DDS Gen6, 80 GB , 6 MB/s, half height, SCSI U160					
	DDS Gen6, 80 GB , 6 MB/s, half height, USB 2.0					
	LTO2HH Ultrium, 200 GB , 24 MB/s, half height, SCSI U160					
	LTO3HH Ultrium, 400 GB , 60 MB/s, half height, SCSI U320					
	LTO4HH Ultrium, 800 GB , 120 MB/s, half height, SAS 3Gb/s					
	RDX Drive, 80 GB, 160 GB, 320 GB , 25 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, (8x DVD/DVD+RW, 6x DVD-RW, 5x DVD-RAM; 24x CD/CD-R, 16x CE RW), slimline, SATA I					
SCSI / SAS Controller	SCSI Ctrl 320 MB 1ch int/ext PCIe x1					
	SAS Ctrl 3 Gb 4 ports int. / 4 ports ext. PCle x4					

RAID Controller	RAID 5/6 Ctrl, SAS/SATA 3 Gb, LSI MegaRAID SAS8880E, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, no BBU support (based on LSI 1078)					
	RAID 5/6 Ctrl, SAS/SATA 3 Gb, LSI MegaRAID SAS8880E, 8 ports ext.					
	RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, inclusive BBU (based on LSI 1078)					
	Integrated SW RAID 5, SATA II 3 Gb, LSI Embedded MegaSR RAID5, RAID level: 0, 1, 10, no BBU support					
	Integrated RAID 5/6 Ctrl, SAS/SATA 3 Gb, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI 1078)					
	Integrated RAID 5/6 Ctrl, SAS/SATA 3 Gb, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 256 MB Cache, optional BBU (based on LSI 1078)					
	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 GT 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					
Rack infrastructure	Cable Arm 2U for 3rd party racks					
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks					
	Rackmount kit full extraction (760mm), tool less mounting					
Warranty						
01						

warranty			
Standard Warranty	1 year		
Service level	On-site Service		
Maintenance and Support 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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