THE POSSIBILITIES ARE INFINITE



DATA SHEET

PRIMERGY TX150 S6

Issue: March 2009

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

PRIMERGY TX Tower Servers deliver highest reliability rates with proven data center technology comparable with high end UNIX servers. The innovative, broadest portfolio of virtualization, server and solution offerings stand for TCO reductions of 60% or more. Optimized air flow cooling technology assures a long life and highest possible performance/watt at work as well as by far best in class efficiency proven by numerous benchmark records. And as your business grows, plenty of headroom for expansion protects your investments in PRIMERGY as well as our universal tower-to-rack conversion kit does in case of consolidation changes. PRIMERGY ServerView Suite with remote management functions provides comprehensive management from anywhere at any time.

The flexible custom supply model and our build-to-order process mean, that only fully built and pre-tested solutions are shipped to customers. Last but not least Fujitsu Technology Solutions proven commitment to green IT offers clear competitive advantages to our customers.

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 departments 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 conversion kit







Technical details

PRIMERGY TX150 S6

I KIMILIKOT TX 130 00									
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	7200 (2C, 2	2.53 GHz, S	LC: 3 MB, 1	066 MHz, (65 W)		
	Intel® Pen	tium® E214	0 (2C, 1.60	GHz, SLC:	1 MB, 800	MHz, 65 W)		
	Intel® Pen	tium® E220	0 (2C, 2.20	GHz, SLC:	1 MB, 800	MHz, 65 W)		
	Intel® Xeo	n® E3110 (2	2C, 3.00 GH	Hz, SLC: 6 N	/IB, 1333 M	Hz, 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,)								
	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)								
Memory slots	4 (2 banks with 2 slots each)								
Memory slot type	PC2-6400 (unbufferd DIMM DDR2 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 wit equal capacity necessary). Single channel (1 module) configuration possible.						odules with		
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								
Upgrade notes	For a memory and processor upgrade a BIOS update may be required.								
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 shar	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	1 v Chit/o	Ethornot						
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 onbord Gbit LAN port							
Onboard or integrated Controlle	r							
RAID Controller		RAID 0/1 o Componen			or SAS base	units (occu	upies one P	Cle slot).
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; RAID 5 iButton optional							
LAN Controller		5, 10/100/10 ess) via onb		thernet, PX	(E-Boot via l	LAN from P	XE server,	iSCSI Boo
Remote Management Controller		Remote Ma ontroller), IF			iRMC S2, 3	2 MB attacl	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	2/33 MHz, 2	x long, 5V					
Slot Notes	in SAS cor	nfiguration 1	Ix PCI-Expi	ess 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	ırator		
Orive bays (Base unit specific)								
Hard disk bays	4 x 3.5- inch non hot-plug SATA	4 x 3.5-inch hot-plug SAS/SATA	8 x 2.5- inch hot- plug SAS	8 x 2.5- inch hot- plug SAS	4 x 3.5-inch hot-plug SAS/SATA	4 x 3.5-inch hot-plug SAS/SATA	8 x 2.5- inch hot- plug SAS	8 x 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 BIOS setti Local BIOS Online upo Local and SMBIOS V Remote P	ngs save ar S update fro date tools fo remote upd	nd restore om USB dev or main Windate via Serroport	dows and L	inux versior date Manag			

0	N 4: 44®	\\/:		`						
Supported operating systems		Windows S Windows S								
		SE Linux E								
		nterprise Li								
				atives on d	lemand					
Operating system release link	Note: Support of other Linux derivatives on demand http://ts.fujitsu.com/software ftp://ftp.ts.fujitsu.com/outgoing/osrel.xls									
Server Management										
Standard	ServerVie	w Deployme	ent Manage	r (fully funct	tional 30-da	v trial version	on)			
	ServerView Deployment Manager (fully functional 30-day trial version) ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris									
	Deployment Solution Online update packages for BIOS, firmware drivers and ServerView Agents									
	ServerVie		es for BIOS	s, tirmware	arivers and	Serverview	/ Agents			
		w Suite. ' Installation	Manager							
		Operation								
		RAID Man								
		Update Ma	ınager							
Onting		'Agents	1	1						
Option	iRMC S2 A	w Remote N Advanced P	ack							
Server Management Notes		Operating Products se			and productata sheets.	t details for	ServerView	Suite		
Dimensions / Weight										
Dimension notes		mm with til	t protection							
Weight	up to 28 k	g								
Weight notes	Weight ma	ay vary depe	ending on a	ctual config	uration					
Rack integration kit	Rack integ	gration kit as	option							
Dimensions / Weight (Base unit	specific)									
Floor-stand (W x D x H)	205 x 605	205 x 605	205 x 605	205 x 605	-	-	-	-		
	x 444 mm	x 444 mm	x 444 mm	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 accordin	g to ISO 92	96			
Sound pressure (LpAm)	26 dB(A) ((idle) / 35 dE	3(A) (operat	ing)						
Sound power (LWAd; 1B = 10dB)	4.4 B (idle) / 5.3 B (op	erating)							
Noise notes / description	only with s	standard far	s 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	specific:								
		•	pply or 2x h	ot-plug pow	ver supply (1 + 1 redun	dancy)			
Rated voltage range	100 - 240	V								
Rated frequency range	50 - 60 Hz	<u> </u>								
Rated current max.	6A/3A(100 V / 240	V)							
Rated current in basic configuration	1.9 A / 0.8	A (100 V / 2	240 V)							
Active Power max. (per system unit)	232 W									
Apparent power max. (per system unit)	263 VA									
Heat emission	835.2 kJ/h	ı (791.8 BTI	٦)							
Electrical values (Base unit spe	cific)									
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									
USA/Canada	CSAc/us									
	ULc/us FCC Clas									
Global	•		of hazardou ctrical and e		•					
Japan	VCCI									
Australia&New Zealand	C-Tick									
Taiwan	BSMI									
Compliance notes	North Am	nerica. Na	•	vals requir	ety requirem ed in order to est.		•			
Compliance link	https://sp	.ts.fujitsu	.com/sites/c	ertificates/o	default.aspx					
Components										
Hard disk drives			0 GB, 7200 i	-						
	SATA, 3	Gb/s 750	GB, 7200 rp	m, hot plu	g, 3.5-inch					
	SATA, 3	Gb/s 500	GB, 7200 rp	m, hot plu	g, 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 G	6b/s 300 (3B, 15000 rp	m, hot plu	g, 3.5-inch					
	SAS, 3 G	6b/s 146 (3B, 15000 rp	m, hot plu	g, 3.5-inch					
	SAS, 3 G	6b/s 146 (3B, 10000 rp	m, hot-plu	ıg, 2.5-inch					
	SAS, 3 G	6b/s 73 G	B, 15000 rpr	n, hot plug	, 3.5-inch					
	SAS, 3 G	6b/s 73 G	B, 10000 rpr	n, hot-plug	, 2.5-inch					
Hard disk notes	One Giga	abyte equ	als one billio	n bytes, w	uires separato hen referring nding on use	g to hard di	sk drive cap			
Tape Drives	DDS Ger	n5, 36 GE	3 , 3 MB/s, h	alf height,	SCSI U2W					
			3 , 3 MB/s, h							
	DDS Ger	n5 OBDR	, 36 GB , 3 N	/IB/s, half h	neight, SCSI	U2W				
			3 , 6 MB/s, h							
			3 , 6 MB/s, h							
	LTO1HH	Ultrium,	100 GB , 16	MB/s, half	height, SCS	I U160				
	LTO2HH	Ultrium L	C, 200 GB ,	24 MB/s, I	half height, S	SCSI U160				
					height, SCS					
					If height, SA					
	RDX Driv	/e, 80 GB	, 160 GB, 32	20 GB , 25	MB/s, half h	eight, USB	2.0			
Optical drives	Blu-ray c	ombo driv	/e, (2x BD-R	OM; 8x D	VD; 24x CD)	, slimline, S	SATA I			
			-		DVD; 40x CD					
	CD-RW / DVD Combo, (8x DVD; 24x CD/CD-R, 16x CD-RW), slimline, SATA I									
			VD; 48xCD)							
	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 CD RW), slimline, SATA I									
SCSI / SAS Controller	SCSI Ctr	1 320 MB	1ch int/ext F	Cle x1						

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

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