

DATA SHEET

PRIMERGY TX300 S4

Issue: July 2009

Dual Socket Intel® Xeon® processor server - Peace of mind when it comes to your most important applications

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 TX300 S4

MAIN FEATURES

Are you looking for business continuity, especially for your core business applications? Our TX300 servers provide peace of mind when choosing a suitable server platform, because their set of integrated redundancy and hot-plug features assures continuous operation of the platform and thus high application reliability.

It is offering the breakthrough performance features of leading edge Intel® Dual-/ Quad-Core Xeon® 5200 and 5400 series CPUs embedded in a powerful design with an 8-port SAS controller and fast PCIe links and PCI-X busses. Continuity is assured with the optional hot-plug power supply, hot-plug redundant fans, modular RAID and redundant dual LAN features. For your high capacity needs, PRIMERGY TX300 S4 provides up to 2 memory boards with 16 DIMM slots for hot-spare or memory mirroring with up to 64 GB PC2-5300F (667 MHz) RAM memory for enhancing data transfer throughput. And the system only needs a few additional options to meet the highest demands, such as clustering or disaster-tolerant setup.

For business-critical remote sites, the PRIMERGY TX300 S4 is the right platform.



MAIN FEATURES	BENEFIIS
Intel Dual-/Quad-Core Xeon 5200/5400 together with up to 64 GB PC2-5300F memory offer outstanding Dual-/Quad-Core performance and balanced architecture that incorporates latest memory and I/O technologies	Higher overall productivity through outstanding Dual-/Quad- Core performance with fast FSB, large L2 cache etc. 64-bit computing for demanding applications, with full compat- ibility for 32-bit legacy applications, ideal for database applications
PCI-Express attached onboard 2x Gbit/s Ethernet LAN and modular RAID controller in PCIe slot	Fast communication path through usage of PCI-Express
Internal max. 6 (8)x 300 GB SAS / 6 (8)x 750 GB SATA 3.5" HDD or up to 12 (20)x 146 GB 2.5" SAS HDD, all hot-plug, 5 free PCIe and 1 PCI-X slots	Highest flexibility on basis of latest I/O technologies for consolidation of data and applications.
Hot-plug, redundant power supply and fans options, Hot- plug hard disks, modular RAID 5 option, ServerView Local Service Panel (LSP) or Local Status Display (LSD) Integrat- ed Remote Management Controller (iRMC), IPMI 2.0	Highest availability rates, comparable with high end UNIX servers. Comfort and security for continuous operation.







Technical details

	TX300	

Housing type	Floorstand	Floorstand	Rack	Rack
Power supply	Hotplug	Standard	Hotplug	Standard
Mainboard				
Mainboard type	D 2529			
Chipset	Intel® 5000P			
Processor quantity and type		on® processor 5200 / 53	300 / 5400 series	
Processor options	Intel® Xeon® E5205 (2C, 1.86 GHz, SLC: 6 MB , 1066 MHz, 65 W)			
	Intel® Xeon® E5405 (4C, 2.00 GHz, SLC: 2 x 6 MB , 1333 MHz, 80 W)			
	Intel® Xeon® E5410 (4C, 2.33 GHz, SLC: 2 x 6 MB , 1333 MHz, 80 W)			
	Intel® Xeon® E5420 (4C, 2.50 GHz, SLC: 2 x 6 MB , 1333 MHz, 80 W)			
	Intel® Xeon® E5430 (4C, 2.66 GHz, SLC: 2 x 6 MB , 1333 MHz, 80 W)			
	Intel® Xeon® E54	140 (4C, 2.83 GHz, SL	C: 2 x 6 MB , 1333 MH	Iz, 80 W)
	Intel® Xeon® L52	40 (2C, 3.00 GHz, SL0	C: 2 x 6 MB , 1333 MH	z, 40 W)
	Intel® Xeon® L54	10 (4C, 2.33 GHz, SL0	C: 2 x 6 MB , 1333 MH	z, 50 W)
	Intel® Xeon® L54	20 (4C, 2.50 GHz, SLC	C: 2 x 6 MB , 1333 MH	z, 50 W)
	Intel® Xeon® L54	30 (4C, 2.66 GHz, SL0	C: 2 x 6 MB , 1333 MH	z, 50 W)
	Intel® Xeon® X5260 (2C, 3.33 GHz, SLC: 6 MB , 1333 MHz, 80 W)			
	Intel® Xeon® X52	270 (2C, 3.50 GHz, SL0	C: 2 x 6 MB , 1333 MH	Iz, 80 W)
	Intel® Xeon® X54	160 (4C, 3.16 GHz, SL0	C: 2 x 6 MB , 1333 MH	Iz, 120 W)
		170 (4C, 3.33 GHz, SL		•
Memory slots		oards with 8 slots each		installed)
Memory slot type	PC2-5300F (Full	ly buffered DIMM DDR	2 667 ECC)	
Memory capacity (min max.)	1 GB - 64 GB			
Memory protection	Advanced ECC Memory Scrubbi SDDC (Chipkill ^{TI}	M)		
	Hot-spare memo Memory Mirrorin			
Memory notes	Maximum 48 GE	with Standard power	supply	
Memory options	8 GB (2 module)	(s) with 4 GB) DDR2, fu	ully buffered, 667 MHz	, PC2-5300F, DIMM
	4 GB (2 module)	(s) with 2 GB) DDR2, fu	ully buffered, 667 MHz	, PC2-5300F, DIMM
	2 GB (2 module)	(s) with 1 GB) DDR2, fu	ully buffered, 667 MHz	, PC2-5300F, DIMM
Interfaces				
USB ports		front, 2x rear, 3x intern	al)	
Graphics (15-pin)	1 x VGA			
Serial 1 (9-pin)		2-C, usable for iRMC \$	S2 or system or share	d
Serial 2 (9-pin)	1 x serial RS-23			
Parallel (25-pin)	1 x Centronics 2	5-pin (option)		
Mouse / Keyboard (PS/2)	2			
LAN / Ethernet (RJ-45)	2 x Gbit/s Etherr			
Service LAN (RJ45)		rvice LAN port for iRM fic can be switched to		.AN port
Onboard or integrated Control	ler			
RAID Controller	Integrated RAID	0/1 or RAID 5/6 contro		s (occupies one PCIe slot)
SATA Controller		A channel for DVD		
LANCOLLUL	DOM 5700 0 4	10/400/4000 NAL:4/- E4L		atiana) DVC Dalatania LANI

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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	ESB2-T, 2 x SATA channel for DVD
LAN Controller	BCM 5708, 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration), PXE-Boot via LAN from PXE server, iSCSI boot (also diskless) via onboard LAN

Onboard or integrated Controller		anagament Controller	/iDMC S2 22 MP attack	and mamory inal
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 x4 (mech. x8)	6 x full height			
PCI-X	1 x 64-bit / 133 MHz,	3.3 V		
Slot Notes	Two of four PCI-Expre 1 x PCI-Express x4 or		ed as x8, if neighbour sl AID controller	ot is empty.
Drive bays				
Hard disk bay configuration	6 x 3.5-inch hot-plug	SAS/SATA or 12x 2.5-	inch hot-plug SAS	
Accessible drive bays		erverView Local Servi	ce Panel or Local Services 2x 3.5 or 6x 2.5-inch	
Notes accessible drives	All possible options de	escribed in relevant sy	stem configurator.	
Optional hard disk bays	2 x 3.5-inch hot-plug 5 5.25-inch bays)	SAS/SATA or 8x 2.5-ir	nch hot-plug SAS in HDE) box (occupies 2x
Optional accessible drives	Hot-plug power supply	y neccessary with 5.2	5 hard drive cage. (Not v	vith standard PSU)
General system information (Ba	ase unit specific)			
Number of fans	4	2	4	2
Fan configuration	hot plug, redundancy as option	standard (non hp / non red.)	hot plug, redundancy as option	standard (non hp / non red.)
Operating panel				
Operating buttons	On/off switch NMI button Reset button			
	Identification (blue) Hard disks access (gr Power (amber / green At system rear side: System status (amber Identification (blue) LAN connection (green LAN speed (green / yr	r / yellow)		
Service display	Optional: ServerView Local Ser ServerView Local Ser			
BIOS				
BIOS features	ROM based setup util Recovery BIOS BIOS settings save at Local BIOS update from Online update tools for Local and remote upon SMBIOS V2.4 Remote PXE boot supplements is CSI boot supplements.	nd restore om USB device or main Windows and late via ServerView U		
Supported operating systems				
Supported operating systems	Microsoft® Windows S Microsoft® Windows S Novell SUSE Linux Er Red Hat Enterprise Li VMware Infrastructure Note: Support of othe	Server® 2003 nterprise Server nux e	demand	
Operating system release link	http://ts.fujitsu.com/sc	ftware	0b9-e4cb-4f48-aa41-632	rf69058421
Server Management				
Standard	ASR&R PDA			

Server Management				
Option	ServerView Deployment Manager (fully functional unlimited version) ServerView Remote Management ServerView Integration for Tivoli TEC®, Tivoli NetView, HP OpenView NNM and HP OpenView iRMC S2 Advanced Pack			
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.			
Dimensions / Weight				
Weight	up to 40 kg			
Weight notes	Weight may vary dep	ending on actual config	guration	
Rack integration kit	Rack integration kit a	s option		
Dimensions / Weight (Base unit	specific)			
Floor-stand (W x D x H)	286 x 775 x 473 mm	286 x 775 x 473 mm	-	-
Rack (W x D x H)	-	-	483 x 770 x 177 mm	483 x 770 x 177 mm
Mounting Depth Rack	-	-	735 mm	735 mm
Height Unit Rack			4 U	4 U
Environmental				
Noise emission	Measured according	to ISO 7779 and declar	red according to ISO 92	296
Sound pressure (LpAm)	39 dB(A) (idle) / 40 dl			
Sound power (LWAd; 1B = 10dB)	5.7 B (idle) / 5.8 B (o			
Operating ambient temperature	10 - 35°C			
Operating relative humidity	10 - 85 % (non conde	nsing)		
Electrical values				
Rated voltage range	100 - 240 V			
Rated frequency range	50 - 60 Hz			
Rated current max.	9.0 A – 5.0 A (100 V /	240 V)		
Rated current in basic configuration	4.4 A - 1.5 A (100 V /	•		
Active power max. (per system unit)	798 W			
Apparent power max. (per system unit)	809 VA			
Heat emission	2872.8 kJ/h (2723.5 E	BTU)		
Electrical values (Base unit spec	ific)			
Power supply configuration	1x hot-plug power supply, redundancy as option (1 + 1 redundancy)	1x standard power supply	1x hot-plug power supply, redundancy as option (1 + 1 redundancy)	1x standard power supply
Standard power supply output	-	605 W	-	605 W
Hot-plug power supply output	700 W	-	700 W	-
Hot-plug power supply redundancy	Yes	No	Yes	No
Apparent power max. (per system unit)	809 VA	809 VA	809 VA	809 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			

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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 MT Single Port Server 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 10 Gb Intel® 10 Gigabit XF SR Dual Port Server Adapter		
	Ethernet Ctrl 2 x 1 Gb Intel® PRO/1000 GT Dual Port 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		
	Rackmount kit full extraction (820mm), tool less mounting		
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks		
Warranty			
Standard Warranty	3 years		
Service level	On-site Service		
Maintenance and Support S	Services - the perfect extension		
Recommended Service	7x24, Onsite Response Time: 4h		
Service Weblink	http://ts.fujitsu.com/Supportservice		

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