

DATA SHEET

PRIMERGY TX300 S4

Issue: September 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 for most TX systems to help you 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 PCle and 1 PCl-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

Housing type	Tower	Tower	Rack	Rack
Power supply	Hotplug	Standard	Hotplug	Standard
Mainboard				
Mainboard type	D 2529			
Chipset	Intel® 5000P			
Processor quantity and type	1 - 2 x Intel® Xeon® p	rocessor 5200 / 5:	300 / 5400 series	
	. = xe. x p			
Processor options	Intel® Xeon® E5205	2C, 1.86 GHz,	SLC: 6 MB1066 MHz,	65 W)
	Intel® Xeon® E5405	4C, 2.00 GHz,	SLC: 2 x 6 MB1333 MI	Hz, 80 W)
	Intel® Xeon® E5410	4C, 2.33 GHz,	SLC: 2 x 6 MB1333 MI	Hz, 80 W)
	Intel® Xeon® E5420	4C, 2.50 GHz,	SLC: 2 x 6 MB1333 MI	Hz, 80 W)
	Intel® Xeon® E5430	4C, 2.66 GHz,	SLC: 2 x 6 MB1333 MI	Hz, 80 W)
	Intel® Xeon® E5440	4C, 2.83 GHz,	SLC: 2 x 6 MB1333 MF	Hz, 80 W)
	Intel® Xeon® L5240	2C, 3.00 GHz,	SLC: 2 x 6 MB1333 MF	lz, 40 W)
	Intel® Xeon® L5410	4C, 2.33 GHz, \$	SLC: 2 x 6 MB1333 MF	łz, 50 W)
	Intel® Xeon® L5420	4C, 2.50 GHz,	SLC: 2 x 6 MB1333 MF	łz, 50 W)
	Intel® Xeon® L5430	4C, 2.66 GHz,	SLC: 2 x 6 MB1333 MF	łz, 50 W)
	Intel® Xeon® X5260	2C, 3.33 GHz,	SLC: 6 MB1333 MHz,	80 W)
	Intel® Xeon® X5270	2C, 3.50 GHz,	SLC: 2 x 6 MB1333 MF	Hz, 80 W)
	Intel® Xeon® X5460	4C, 3.16 GHz,	SLC: 2 x 6 MB1333 MF	Hz, 120 W)
	Intel® Xeon® X5470		SLC: 2 x 6 MB1333 MF	
Memory slots	16 (2 Memory boards	s with 8 slots each	, 1 memory board prei	nstalled)
Memory slot type	PC2-5300F (Fully bu		•	
Memory capacity (min max.)	1 GB - 64 GB		•	
Memory protection	Advanced ECC			
7,	Memory Scrubbing			
	SDDC (Chipkill™)			
	Hot-spare memory su Memory Mirroring su			
Memory notes	Maximum 48 GB with	•	sunnly	
<u> </u>		•	ully buffered, 667 MHz,	DC2 E200E DIMM
Memory options		•	-	
-		וווו ב לוסו ואואב. וו		
	4 GB (2 module(s) w	•		
		•	ully buffered, 667 MHz,	
	2 GB (2 module(s) w	ith 1 GB) DDR2, fo	ully buffered, 667 MHz,	
USB ports	2 GB (2 module(s) w 6 x USB 2.0 (1x front	ith 1 GB) DDR2, fo	ully buffered, 667 MHz,	
USB ports Graphics (15-pin)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA	ith 1 GB) DDR2, fu	ully buffered, 667 MHz,	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C,	ith 1 GB) DDR2, fu	ully buffered, 667 MHz,	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA	ith 1 GB) DDR2, fu	ully buffered, 667 MHz,	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C,	ith 1 GB) DDR2, function, 2x rear, 3x internal usable for iRMC s	ully buffered, 667 MHz,	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C, 1 x serial RS-232-C 1 x Centronics 25-pir 2	ith 1 GB) DDR2, function, 2x rear, 3x internal usable for iRMC s	ully buffered, 667 MHz,	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C, 1 x Serial RS-232-C	ith 1 GB) DDR2, function, 2x rear, 3x internal usable for iRMC s	ully buffered, 667 MHz,	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2) LAN / Ethernet (RJ-45)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C, 1 x Serial RS-232-C 2 x Gbit/s Ethernet 1 x dedicated service	ith 1 GB) DDR2, function, 2x rear, 3x internal usable for iRMC son (option)	ully buffered, 667 MHz,	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2) LAN / Ethernet (RJ-45) Service LAN (RJ45)	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C, 1 x serial RS-232-C 2 x Centronics 25-pir 2 2 x Gbit/s Ethernet 1 x dedicated service Service LAN traffic ca	ith 1 GB) DDR2, function, 2x rear, 3x internal usable for iRMC son (option)	ully buffered, 667 MHz, hal) S2 or system or shared C S2 (10/100 Mbit/s)	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2) LAN / Ethernet (RJ-45) Service LAN (RJ45) Onboard or integrated Control	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C, 1 x Serial RS-232-C 1 x Centronics 25-pir 2 2 x Gbit/s Ethernet 1 x dedicated service Service LAN traffic caller Integrated RAID 0/16	ith 1 GB) DDR2, for the control of t	ully buffered, 667 MHz, nal) S2 or system or shared C S2 (10/100 Mbit/s) shared onboard Gbit L oller for SAS base units	PC2-5300F, DIMM
USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2) LAN / Ethernet (RJ-45) Service LAN (RJ45) Onboard or integrated Control RAID Controller	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C, 1 x Serial RS-232-C 1 x Centronics 25-pir 2 2 x Gbit/s Ethernet 1 x dedicated service Service LAN traffic caller Integrated RAID 0/1 of See under Compone	ith 1 GB) DDR2, for the control of t	ully buffered, 667 MHz, nal) S2 or system or shared C S2 (10/100 Mbit/s) shared onboard Gbit L oller for SAS base units	PC2-5300F, DIMM
Interfaces USB ports Graphics (15-pin) Serial 1 (9-pin) Serial 2 (9-pin) Parallel (25-pin) Mouse / Keyboard (PS/2) LAN / Ethernet (RJ-45) Service LAN (RJ45) Onboard or integrated Control RAID Controller SATA Controller LAN Controller	2 GB (2 module(s) w 6 x USB 2.0 (1x front 1 x VGA 1 x serial RS-232-C, 1 x Serial RS-232-C 1 x Centronics 25-pir 2 2 x Gbit/s Ethernet 1 x dedicated service Service LAN traffic caller Integrated RAID 0/1 of See under Compone ESB2-T, 2 x SATA ch	usable for iRMC son (option) LAN port for iRM an be switched to or RAID 5/6 controllers RAID controllers annel for DVD	C S2 (10/100 Mbit/s) shared onboard Gbit Loller for SAS base unitser	PC2-5300F, DIMM

Onboard or integrated Controlle				
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 SAS/SATA or 8x 2.5-inch hot-plug SAS in HDD box (occupies 2x 5.25-inch bays)			
Optional accessible drives	Hot-plug power supply	y neccessary with 5.2	5 hard drive cage. (Not v	with standard PSU)
General system information (Ba	se 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			
Status LEDs	System status (amber Identification (blue) Hard disks access (gr Power (amber / green At system rear side: System status (amber Identification (blue) LAN connection (green / yellow)	reen) n/yellow) en)		
Service display	Optional: ServerView Local Ser ServerView Local Ser			
BIOS				
BIOS features	ROM based setup util Recovery BIOS BIOS settings save an Local BIOS update fro Online update tools for Local and remote upd SMBIOS V2.4 Remote PXE boot sup Remote iSCSI boot sup	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/software http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421			
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	ensing)		
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			

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.
https://sp.ts.fujitsu.com/sites/certificates/default.aspx
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
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, 300 GB, 10000 rpm, hot-plug, 2.5-inch
SAS, 3 Gb/s, 146 GB, 15000 rpm, hot plug, 3.5-inch
SAS, 3 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-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, 15000 rpm, hot-plug, 2.5-inch
SAS, 3 Gb/s, 73 GB, 10000 rpm, hot-plug, 2.5-inch
<u></u>
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
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
1.44 MB Floppy
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 CD
RW), slimline, SATA I
F-D-L-Box1
F-D-L-HDD-Box2
SCSI Ctrl 320 MB 1ch int/ext PCle x1
SAS Ctrl 3 Gb 4 ports int. / 4 ports ext. PCle x4
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 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)

Fibre Channel controller	Fibre Channel Ctrl 1 x 4 Gb Emulex LPe1150 MMF LC
	Fibre Channel Ctrl 2 x 4 Gb Emulex LPe11002 MMF LC
	Fibre Channel Ctrl 1 x 4 Gb Qlogic QLE2460 MMF LC
	Fibre Channel Ctrl 2 x 4 Gb Qlogic QLE2462 MMF LC
	Fibre Channel Ctrl 2 x 8 Gb Emulex LPe12002 MMF LC
	Fibre Channel Ctrl 1 x 8 Gb Emulex LPe1250 MMF LC
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	ervices - 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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