FUJITSU

DATA SHEET

PRIMERGY TX120 S2

Issue: **July 2009**

Mono socket Tower Server - The leading office server: space saving, energy saving, whisper-quiet.

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 TX120 S2
The PRIMERGY TX120 S2 carries on the TX120 tradition of space-saving, energy-saving and low noise. It even improves on its innovative predecessor by achieving the same performance but consuming 25% less power.
The TX120 S2 key features, make it a perfect fit for use in small offices, retail premises or libraries. Sporting up to 4x 320 GB SATA or 146 GB 15 000 rpm SAS hard disk drives, it can easily meet most storage requirements, at the right price. Its up to 16GB of RAM easily enable it to run typical small business applications. On-board iRMC S2 remote management, makes the TX120 S2 a great choice for branch premises connected to a centralized infrastructure. The PRIMERGY TX120 S2: a compact server with great potential!

MAIN FEATURES	BENEFITS
Its ultra-compact form factor, means that the PRIMERGY TX120 S2 fits everywhere, in either tower or desktop position.	Space-saving: ideal for office, retail and smaller environments
Thanks to the carefully crafted cooling concept, and the very low voltage Intel® Core™2 Duo processors, the TX120 S2 only consumes a min of 44W.	Energy-saving: lowers the total cost of ownership
The 27Db idle mode noise level, makes the TX120 S2 the perfect office server.	Whisper-quiet: for ergonomic working environments
With a choice of SAS or SATA hot-plug hard disks, or up to 16GB of RAM, the TX120 S2 has the power to cope with most challenges.	A powerful and expandable server
The iRMC S2 chip on-board makes remote management possible.	Ready for integration into company management networks

Technical details

Mainboard

Mainboard type	D2785
Chipset	Intel® 5100
Processor quantity and type	1 x Intel® Core™2 Duo

Processor options

	Intel® Core™2 Duo P8400 (2C, 2.26 GHz, SLC: 3 MB , 1066 MHz, 25 W)
	Intel® Core™2 Duo T9400 (2C, 2.53 GHz, SLC: 6 MB , 1066 MHz, 35 W)
Memory slots	4 (2 bank with 2 slots each)
Memory slot type	DIMM (DDR2)
Memory capacity (min. - max.)	1 GB - 16 GB
Memory protection	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

	4 GB (1 module(s) with 4 GB) DDR2, registered, ECC, 667 MHz, PC2-5300
	2 GB (1 module(s) with 2 GB) DDR2, registered, ECC, 667 MHz, PC2-5300
	1 GB (1 module(s) with 1 GB) DDR2, registered, ECC, 667 MHz, PC2-5300

Interfaces

USB ports	8 x USB 2.0 (2x front, 5x rear, 1x internal)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x RS-232-C
LAN / Ethernet (RJ-45)	1
Service LAN (RJ45)	1 x dedicated Service LAN port for iRMC (10/100 Mbit/s) Optional front service LAN port

Onboard or integrated Controller

RAID Controller	4 port SATA with RAID 0/1for HDD´s
SATA Controller	Intel® ICH9R
SATA Controller type notes	4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux
LAN Controller	Intel® 82567-LM4 onboard, 10/100/1000 Mbit/s Ethernet, PXE-Boot via LAN from PXE server
Remote Management Controller	Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	optional TPM

Slots

PCI-Express x8	3 x low profile 1 of it can be used for modular RAID only
PCI slots	1 x low profile PCI 32-bit / 33 MHz, 5 V

Drive bays

Hard disk bays	2 x 2.5-inch hot-plug SAS/SATA
Accessible drive bays	1 x 3.5/1.6-inch for backup devices or HDD option 1 x 5.25/0.5-inch for CD-RW/DVD
Optional hard disk bays	2 x 2.5-inch hot-plug SAS/SATA (occupies 3.5/1.6-inch bay)

Operating panel

Operating buttons	On/off switch
Status LEDs	Power (amber / green)

Supported operating systems

Supported operating systems	Microsoft® Windows Server® 2008 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux Note: Support of other Linux derivatives on demand Microsoft® Windows Server® 2003 Microsoft® Windows Server® 2003
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	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
	ServerView Suite:
	      SV Installation Manager
	      SV Operation Mananger
	      SV RAID Manager
	      SV Update Manager
	      SV Agents

Option	ServerView Remote Management iRMC Advanced Pack
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.

Dimensions / Weight

Floor-stand (W x D x H)	99 x 399 x 340 mm
Dimension notes	without feet
Weight	up to 10 kg
Weight notes	Weight may vary depending on actual configuration

Environmental

Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	27 dB(A) (idle) / 32 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	4,3 B (idle) / 4.7 B (operating)
Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)

Electrical values

Power supply configuration	1x standard power supply
Standard power supply output	300 W
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Rated current max.	2.7 A / 1.1A (100 V / 240 V)
Active power max. (per system unit)	120 W
Apparent power max. (per system unit)	56-127 VA
Heat emission	432.0 kJ/h (409.6 BTU)

Compliance

Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class B
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
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, 120 GB, 5400 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, 2.5-inch
	SAS, 3 Gb/s, 73 GB, 10000 rpm, hot-plug, 2.5-inch

Tape Drives	
	DDS Gen5 3.5", 36 GB , 3 MB/s, half height, USB 2.0
	RDX Drive 3.5", 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
	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 1x int /1x ext
	SAS Ctrl 3 Gb 4 ports int. / 4 ports ext.
RAID Controller	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, 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

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