

## DATA SHEET

### PRIMERGY TX120 S1

Issue: January 2009

## Mono socket Dual-Core Tower Server - Leading edge energy and space saving technologies at quietest operation

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 TX120 S1

The new first generation ultra-compact sized PRIMERGY tower server TX120 with a powerful Intel® Xeon® UP Dual-Core processor incorporates leading edge, low power consumption and space-saving technologies. Thus a significantly smaller footprint, reduced noise and energy savings are achieved. The PRIMERGY TX120 tower server is perfect for office workspaces, for distributed and SOHO applications including retail in-store, back office servers and small office application servers. Enhance your efficiency when it comes to simultaneous execution of multiple applications and downloading mass data. The processor with the Intel® 3000 chipset also supports VT technology.

Two 2.5-inch SAS hot-plug hard disks and the built-in RAID 1 functionality offer high data security. The standard iRMC (Integrated Remote Management Controller) offers enhanced system management, based on IPMI 2.0 technology, and the advanced diagnostic functions with Diagnostic LED increases operational reliability. A DAT drive can also be installed for easy backup or optional two further hot-plug hard disks. Alternatively an even more power saving Celeron® processor rounds off the offering.



MAIN FEATURES	BENEFITS
Active power reduced: down to 163 Watts fully equipped, even lower with Celeron® processor	World class standard in energy saving reduces TCO with ca. 40% lower power consumption versus other standard tower servers
Reduced space and size: 1/3 smaller footprint & 1/4 less volume, compared to current 1-socket servers in the market achieved by downsizing the heat pipe and installing 2.5 inch HDD	World's smallest footprint, installable in office workspaces for fewer concerns about a lack of space (HxWxD 340 x 99 x 399 mm)
Advanced cooling technologies such as "heat-pipe" cooling and "straight-line cooling" achieve a low noise level equivalent to a whispering voice	Absolutely quiet system (idle 28 dB and operation 31 dB), thus optimized for use in offices
Raid 1 & hot-plug HDD, ECC memory, Server processor Xeon UP, Server Operating System, integrated Remote Management Controller (iRMC) with advanced Pack option	A real reliable and powerful server nevertheless!



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## Technical details

### PRIMERGY TX120

#### Mainboard

Mainboard type	D 2550
Chipset	Intel® 3000
Processor quantity and type	1 x Intel® Celeron® processor / Intel® Xeon® processor 3000 sequence

#### Processor options

	Intel® Xeon® 3040 (2C, 1.86 GHz, SLC: 2 MB, 1066 MHz, 65 W)
	Intel® Xeon® 3070 (2C, 2.66 GHz, SLC: 4 MB, 1066 MHz, 65 W)
Memory slots	4 (2 bank with 2 slots each)
Memory slot type	DIMM (DDR2)
Memory capacity (min. - max.)	1 GB - 8 GB
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, 667 MHz,
	1 GB (1 module(s) with 1 GB), DDR2, 667 MHz,
Upgrade notes	For a memory and processor upgrade a BIOS update may be required.

#### Interfaces

USB ports	5 x USB 2.0 (2x front, 2x rear, 1x internal)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x RS-232-C
Mouse / Keyboard (PS/2)	2
LAN / Ethernet (RJ-45)	1 x Gbit/s Ethernet
Service LAN (RJ45)	1 x dedicated Service LAN port for iRMC (10/100 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port

#### Onboard or integrated Controller

Fast IDE/Ultra DMA-100	1 x ATA 100 for optical drive
RAID Controller	4 port for internal SAS HDDs and backup devices, with RAID 0/1/1E for Windows and Linux
LAN Controller	BCM 5754, 10/100/1000 Mbit/s Ethernet, PXE-Boot via LAN from PXE server
Remote Management Controller	Integrated Remote Management Controller (iRMC) incl. graphics controller, IPMI 2.0 compatible

#### Slots

PCI-Express x4 (mech. x8)	1 x low profile
PCI-Express x1	1 x low profile
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
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 (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 Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux Note: Support of other Linux derivatives on demand
Operating system release link	<a href="http://ts.fujitsu.com/software">http://ts.fujitsu.com/software</a> <a href="http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421">http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421</a>

## 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 Manager 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
Rack integration kit	Rack integration kit as option

## Environmental

Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	28 dB(A) (idle) / 31 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	4,0 B (idle) / 4.4 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	250 W
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Rated current max.	2.0 A / 1.0A (100 V / 240 V)
Rated current in basic configuration	1.63A / 0.69A (100 V / 240 V)
Active Power max. (per system unit)	163 W
Apparent power max. (per system unit)	166 VA
Heat emission	586.8 kJ/h (556.3 BTU)

## 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)

## Compliance

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	<a href="https://sp.ts.fujitsu.com/sites/certificates/default.aspx">https://sp.ts.fujitsu.com/sites/certificates/default.aspx</a>

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## Components

### Hard disk drives

SAS, 3 Gb/s, 146 GB, 10000 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

CD-RW / DVD Combo, (8x DVD; 24x CD/CD-R, 16x CD-RW), slimline, 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

### LAN Controller

Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 GT Desktop Adapter low profile  
Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 MT Server Adapter low profile  
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

## Warranty

Standard Warranty	1 year
Service level	On-site Service

### Maintenance and Support Services - the perfect extension

Recommended Service	7x24, Onsite Response Time: 4h
Spare Parts availability	5 years
Service Weblink	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>

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