



PRIMERGY TX120 S2

Save power and space with the “Green” Server from Fujitsu

Get the power of a PRIMERGY server in an amazingly small and power-efficient package. The PRIMERGY® TX120 S2 Tower Server is one quarter the size and consumes 40% less power than a standard tower server without compromising the remote management and reliability features you expect in a PRIMERGY server.

The features of this server speak for themselves:

Energy efficient – consumes 40% less power than a standard tower server

Virtually silent operation makes it an excellent server for small offices

Space efficient design – one quarter the size of a standard tower server

The Intel® Core™2 Duo Processor for high efficiency operation

Up to 16 GB ECC RAM

Up to 4 integrated hot-plug hard drive bays

Optional Integrated SAS controller supporting RAID 5/6

Advanced system management with the Integrated Remote Management Controller (iRMC)

Environmentally Friendly

The PRIMERGY TX120 S2 is the latest ultra-compact server offering from Fujitsu. It is an amazingly small and full-featured PRIMERGY server, with powerful performance, remote management, and availability features. Designed for energy efficient operation through the use of the latest in power saving components, the PRIMERGY TX120 S2 consumes 40% less power than standard tower servers. Multiple, large diameter fans and advanced cooling components minimize noise. With an average noise level of 28-32 dB, the PRIMERGY TX120 S2 is whisper quiet. These features make it the perfect server for office workspaces, for distributed and small or home office applications, small retail environments, back office servers, and small office application servers.

Powerful Performance and Availability

The PRIMERGY TX120 S2 server offers the performance and availability your business needs. With dual core Intel processors, and up to 16 GB of RAM, the PRIMERGY TX120 S2 has the power to support your business. Integrated Serial Attached SCSI drives and a choice of integrated controllers with RAID mirroring or RAID 5/6 capability provide performance and data protection. An additional bay is available for DAT tape drives or an additional 2 hard drives providing even more data protection. Three integrated PCI Express slots allow for a wide variety of upgrades. The PRIMERGY TX120 S2 offers a surprising amount of expandability and can grow as your business grows.

Server Management

Server management of the PRIMERGY TX120 S2 controller is based on Intelligent Platform Management Interface (IPMI) 2.0 technology, allowing the system to be remotely managed even if the operating system is no longer available. An optional license key unlocks powerful Web-based remote console features that give the remote administrator full remote control over the system. Now you can configure the server, troubleshoot problems, or even power the system on or off—all through a simple web-based interface. These hardware-based features fully integrate into a powerful ServerView Suite—the remote management console for PRIMERGY servers.

Quality and Reliability

Fujitsu is a worldwide leader in Intel, Linux, and UNIX® architecture servers with industry leading reliability and extensive availability features. The close integration between Fujitsu design, manufacturing, and service engineers creates some of the highest quality products in the server market. With global support capabilities, Fujitsu offers complete solutions that will allow us to meet all your present and future needs.



TX120 S2 SPECIFICATIONS

Main Features	Benefits
An ultra-compact chassis lets the PRIMERGY TX120 S2 fit practically anywhere, in either a tower or desktop orientation.	Space-saving: ideal for office, retail, or even tighter environments.
Thanks to its carefully crafted cooling concept, and the use of very low voltage Intel® Core™2 Duo processors, the TX120 S2 consumes only 44W in standard operation.	Energy-saving: lowers the total cost of ownership.
The 27Db noise level (in idle mode), 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, up to 16GB of RAM, and 4 PCI slots, the TX120 S2 has the power to cope with most challenges.	Powerful: capable of handling a wide variety of business applications.
Full remote management provided by the onboard iRMC2 chip makes troubleshooting and fixing problems easy.	Easy to manage: true server management features allows the PRIMERGY TX120 S2 to seamlessly integrate into company management networks and saves money in remote support costs.

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 with ECC, 667 MHz, PC2-5300 2 GB (1 module(s) with 2 GB), DDR2, registered with ECC, 667 MHz, PC2-5300 1 GB (1 module(s) with 1 GB), DDR2, registered with 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 serial RS-232-C
	LAN/Ethernet (RJ-45)	1
	Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S2 (10/100 Mb/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 ports for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux
LAN Controller		Intel® 82567-LM4 onboard, 10/100/1000 Mb/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.
	TPM (Trusted Platform Module)	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 Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux VMware Infrastructure
	Operating System Release Link	http://solutions.us.fujitsu.com/www/content/support/osrel.xls
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
Dimensions/Weight	Floor-Stand (W X D X H)	3.90 x 15.71 x 13.39 inches
	Dimension Notes	Measurement does not include the tower's feet
	Weight	up to 22 lbs.
	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	50 - 95°F
	Operating Relative Humidity	10 - 85 % (non condensing)

Electrical Values

Power Supply Configuration		1x standard power supply
	Max. Output of Power Supply	300 W
	Rated Voltage Range	100 - 240 V
	Rated Frequency Range	50 - 60 Hz
Electrical Values	Rated Current Max.	2.7 A / 1.1A (100 V / 240 V) 120 W
	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 electronic 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	http://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 low profile Ethernet Ctrl 1 x 1 Gb Intel® PRO/1000 PT Server Adapter low profile Ethernet Ctrl 2 x 1 Gb Intel® PRO/1000 PT Dual Port Server Adapter low profile

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09.0328

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://www.fujitsu.com/us/support/index.html

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:

<http://solutions.us.fujitsu.com/www/content/aboutus/environmental/environment.php>

Take back and recycling information:

http://solutions.us.fujitsu.com/www/content/products/trade-in_program/