

PRIMERGY

Compact Size Server

TX120 1WAY

Intel® Xeon® 3070 (2.66GHz)/3040 (1.86GHz)
Intel® Celeron® 430 (1.80GHz)

HDD 2Bays (MAX293.6GB)

512MB (~8GB) DDR2 SDRAM

PCI-Express(x4)[x8]/(x1)[x1]
PCI(32bit/33MHz)

Onboard SAS(x4)

Onboard 1000BASE-T(x1)

Intel®
Server & Storage
Innovation
Award Winner
SPRING 2007



Leading-edge space-saving, low-power consumption technologies in a high-performance package

This highly reliable, ultra-compact size server incorporates leading-edge, space-saving and low-power consumption technologies, achieving a significantly smaller footprint, reduced noise and energy savings.

Small and lightweight (max. 10kg) for ease of installation. However limited the space, the unit can be set up for vertical or horizontal operation. With total volume reduced by 75 percent from the current TX150 S6, two of these compact size servers can be installed in the space where a conventional-sized server once fitted.

Operational noise can be a major stress factor. But the compact TX120 utilizes an enhanced "heat-pipe" method for cooling the CPU. This holds down noise output to a whisper-quiet 32dB(28dB during idling), allowing the server to remain unobtrusive even close to your workspace.

The PRIMERGY TX120 compact size server supports the

latest SCSI standard "SAS" 2.5-inch HDD with point-to-point high-speed serial interfaces. High reliability, lowest possible HDD failure rates, and faster data transfer rates are assured across the entire system. Reliability is further enhanced with in-built RAID hardware for RAID1 configuration.

"ServerView" server management software, included as standard, monitors component life, internal temperatures and voltage, for added safeguards against server failure. Running costs are further reduced by use of low-power consumption CPU and 2.5-inch SAS HDD.

The remote console feature of TX120 offers remote power on/off control and other capabilities using the Web interface of your local PC.*

A DAT drive can also be installed for backup.

* A separate console is required during maintenance.

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PRIMERGY TX120 has received "Intel® Server & Storage Innovation Award" in the server category at the Intel Developer Forum, held in Beijing on April 17 and 18, 2007. This award is presented at Intel Corporation's Intel Developer Forum for innovative products or technologies in the categories of servers, storage and ODM.



Specifications

Type		Compact Size Server
Model		2.5inch SAS model
CPU	Frequencies	Intel® Xeon® 3070 (2.66GHz)*1/3040 (1.86GHz)*5/Intel® Celeron® 430 (1.80GHz)
	Second-Level-Cache	4MB (Intel® Xeon® 3070 (2.66GHz))/ 2MB (Intel® Xeon® 3040 (1.86GHz))/ 512KB (Intel® Celeron® 430 (1.80GHz))
	Number of processors	1 (max. 1)
	Number of cores	2 per processor (Intel® Xeon® 3070 (2.66GHz)/3040 (1.86GHz))/ 1 per processor (Intel® Celeron® 430 (1.80GHz))
Front-Side-Bus		1066MHz (Intel® Xeon® 3070 (2.66GHz)/3040 (1.86GHz))/ 800MHz (Intel® Celeron® 430 (1.80GHz))
Chipset		Intel® 3000
TPM (Trusted Platform Module)		-
Memory	Standard	512MB (512MB ECC DDR2 SDRAM DIMM x 1)
	Maximum*1	8GB (2GB ECC DDR2 SDRAM DIMM x 4)
Graphics Controller		incl. Remote Management Controller, VRAM : 1.7MB
Resolution*2		640x480/800x600/1024x768/1280x1024 dot
Internal Bays 2.5-inch HDD (SAS)	Number of Bays	2 (hot plug)
	Available HDD *3	2.5inch, SAS, 10krpm, 73.4GB 2.5inch, SAS, 10krpm, 146.8GB 2.5inch, SAS, 15krpm, 73.4GB
	Maximum*3	293.6GB (146.8GB x 2)
Option Bays		2 (1 free bays)
DVD-ROM		Max 8 DVD-ROM / Max 24 CD-ROM (IDE)
PCI Slots	PCI Express (x4) [x8]	1 : LowProfile PCI Express Card
	PCI Express (x1) [x1]	1 : LowProfile PCI Express Card
	PCI (32bit/33MHz) [5.0V]	1 : LowProfile PCI Card
RAID		standard (onboard, with RAID1 function)
SAS Interface (onboard)		SAS x 2ports
FDD		_*6
Network Interface (onboard)		1 port (1000BASE-T/100BASE-TX/10BASE-T)
Interfaces		Display (Analog RGB), Serial Port (D-SUB 9pins), Keyboard (PS/2type Mini DIN 6pins) Mouse (PS/2type Mini DIN 6pins), USB x 5 (ver. 2.0) (Internal : x 1, External : x 4)
Server Management Software		ServerView (standard)
Remote Service function		standard (onboard, Remote Management Controller)
Power supply	connector	1 port (100BASE-TX/10BASE-T)
	Voltage	AC100-127V (50/60Hz)/200-240V (50/60Hz) x1 (max.1)
	Power consumption	175W/630kJ/h (max.)
Redundant power supply		-
Redundant Fan		-
Dimensions (mm)		99 (W) x 399 (D) x 340 (H)
Weight		10kg (max.)
Environmental Conditions		Temperature 10-35°C / Humidity 20-80% (non condensing)
OS Support		Windows Server® 2008 Standard (32-bit)/Windows Server® 2008 Standard (64-bit) Windows Server® 2003 R2, Standard Edition/Windows Server® 2003 R2, Standard Edition (SP2) Windows Server® 2003, Standard Edition (SP1/SP2) Windows Server® 2003 R2, Standard x64 Edition/Windows Server® 2003 R2, Standard x64 Edition (SP2) Windows Server® 2003, Standard x64 Edition/Windows Server® 2003, Standard x64 Edition (SP2) Red Hat Enterprise Linux ES (v.4 for x86)/Red Hat Enterprise Linux 5 (for x86)*7 Red Hat Enterprise Linux ES (v.4 for EM64T)/Red Hat Enterprise Linux 5 (for Intel64)*7

*1: Available memory capacity will be changed by the type of OS. Please find more details in Notes [Memory OS Compatibility List].

* Noise level is 32db.

*2: Resolution is determined by functions of the display monitor and OS.

*3: HDD capacity is calculated according to the formula 1GB=1000³.

*4: CPU Conversion kit: Celeron 430 (1.80GHz) -> Xeon 3070 (2.66GHz) is available for upgrading to Intel® Xeon® 3070 (2.66GHz).

*5: CPU Conversion kit: Celeron 430 (1.80GHz) -> Xeon 3040 (1.86GHz) is available for upgrading to Intel® Xeon® 3040 (1.86GHz).

*6: One USB-FDD is required as a minimum in multiple servers. It is necessary to procure USB-FDD separately.

*7: VM (Virtual Machine) function is not supported.

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