



## Lenovo ThinkServer TD230 server 0 GB Tower Intel® Xeon® 5000 Sequence E5645 2,4 GHz 4 GB DDR3-SDRAM 625 W

**Brand :** Lenovo

**Product family:** ThinkServer

**Product code:** 10291BU

**Product name :** TD230

Intel Xeon E5645 (2.4 GHz, 12 Mb L3), Intel 5500, 4 Gb RAM, DVD-RW, VGA, 2xRJ45, 625W, Tower  
Lenovo ThinkServer TD230. Processor family: Intel® Xeon® 5000 Sequence, Processor frequency: 2,4 GHz, Processor model: E5645. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM, Memory layout (slots x size): 1 x 4 GB. Total storage capacity: 0 GB. Ethernet LAN. Optical drive type: DVD Super Multi. Power supply: 625 W. Chassis type: Tower



Processor		Ports & interfaces	
Processor manufacturer *	Intel	Ethernet LAN (RJ-45) ports *	2
Processor family *	Intel® Xeon® 5000 Sequence	USB 2.0 ports quantity	6
Processor model *	E5645	VGA (D-Sub) ports quantity	1
Processor frequency *	2,4 GHz	Serial ports quantity	1
Processor boost frequency	2,67 GHz	Expansion slots	
Processor cores	6	PCI Express x4 slots	1
Processor cache	12 MB	PCI Express x8 slots	3
Motherboard chipset	Intel® 5500	PCI slots	1
Memory channels supported by processor	Triple	Design	
Number of processors installed	1	Chassis type *	Tower
Thermal Design Power (TDP)	80 W	Software	
Processor cache type	Smart Cache	Operating system installed *	×
System bus rate	5,86 GT/s	Processor special features	
Maximum number of SMP processors	2	CPU configuration (max)	2
Processor socket	Socket B (LGA 1366)	Intel Rapid Storage Technology	×
Processor lithography	32 nm	Enhanced Intel SpeedStep Technology	✓
Processor threads	12	Intel® Wireless Display (Intel® WiDi)	×
Processor operating modes	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	B1	Intel® Anti-Theft Technology (Intel® AT)	×
FSB Parity	×		
Bus type	QPI		
Number of QPI links	2		

Processor		Processor special features	
Processor codename	Westmere EP	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Tcase	76,2 °C	Intel® My WiFi Technology (Intel® MWT)	✗
Maximum internal memory supported by processor	288 GB	Intel® Turbo Boost Technology	1.0
Memory types supported by processor	DDR3-SDRAM	Intel® Quick Sync Video Technology	✗
Memory clock speeds supported by processor	800,1066,1333 MHz	Intel® InTru™ 3D Technology	✗
Memory bandwidth supported by processor (max)	32 GB/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
ECC supported by processor	✓	Intel® Insider™	✗
Execute Disable Bit	✓	Intel Flex Memory Access	✗
Idle States	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Monitoring Technologies	✗	Intel Trusted Execution Technology	✓
Processor package size	42.5 X 45 mm	Intel Enhanced Halt State	✓
Supported instruction sets	SSE4.2	Intel VT-x with Extended Page Tables (EPT)	✓
Physical Address Extension (PAE)	40 bit	Intel Demand Based Switching	✓
Embedded options available	✓	Intel Clear Video Technology	✗
CPU multiplier (bus/core ratio)	18	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Processor series	Intel Xeon 5600 Series	Intel 64	✓
Conflict-Free processor	✗	Intel Virtualization Technology (VT-x)	✓
Memory		Intel Dual Display Capable Technology	✗
Internal memory *	4 GB	Intel FDI Technology	✗
Internal memory type *	DDR3-SDRAM	Intel Fast Memory Access	✗
Memory slots	8	Processor ARK ID	48768
ECC	✓	Power	
Memory clock speed	1333 MHz	Number of power supply units	1
Memory layout (slots x size)	1 x 4 GB	Redundant power supply (RPS) support *	✗
Maximum internal memory *	32 GB	Power supply *	625 W
Storage		Certificates	
Total storage capacity *	0 GB	Certification	RoHS
Number of hard drives supported	4	Weight & dimensions	
RAID support *	✓	Width	210 mm
RAID levels	0, 1, 5, 10	Depth	510 mm
Optical drive type *	DVD Super Multi	Height	470 mm
Graphics		Other features	
Maximum graphics card memory	32 MB	Disk array controller	9240-8i
Network		Ventilation fan(s)	5
Network ready	✓		
Ethernet LAN	✓		

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