



## Lenovo ThinkServer TS140 server 1 TB Tower (4U) Intel® Xeon® E3 V3 Family E3-1226V3 3.3 GHz 8 GB DDR3-SDRAM 450 W

**Brand :** Lenovo

**Product family:** ThinkServer

**Product code:** 70A4A02ALD

**Product name :** TS140

Intel Xeon E3-1226 v3 (8M Cache, 3.30 GHz), 8GB DDR3 SDRAM, 1TB SATA3 HDD, Gigabit Ethernet, DVD±RW, 450W, Tower, Raid

Lenovo ThinkServer TS140. Processor family: Intel® Xeon® E3 V3 Family, Processor frequency: 3.3 GHz, Processor model: E3-1226V3. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 1 TB, HDD size: 3.5", HDD interface: Serial ATA III. Ethernet LAN, Cabling technology: 10/100/1000Base-T(X). Optical drive type: DVD±RW. Power supply: 450 W. Chassis type: Tower (4U)



Processor		Ports & interfaces	
Processor manufacturer *	Intel	DisplayPorts quantity	2
Processor family *	Intel® Xeon® E3 V3 Family	Expansion slots	
Processor model *	E3-1226V3	PCI Express x1 (Gen 2.x) slots	1
Processor frequency *	3.3 GHz	PCI Express x16 (Gen 2.x) slots	1
Processor boost frequency	3.7 GHz	PCI Express x16 (Gen 3.x) slots	1
Processor cores	4	PCI slots	1
Processor cache	8 MB	PCI Express slots version	3.0
Motherboard chipset	Intel® C226	Design	
Memory channels supported by processor	Dual	Chassis type *	Tower (4U)
Number of processors installed	1	Performance	
Thermal Design Power (TDP)	84 W	Trusted Platform Module (TPM)	✓
Processor cache type	Smart Cache	Trusted Platform Module (TPM) version	1.2
System bus rate	5 GT/s	Software	
Processor socket	LGA 1150 (Socket H3)	Operating system installed *	✗
Processor lithography	22 nm	Compatible operating systems *	Windows Server 2012 Windows Server 2008 R2 Windows Small Business Server 2011
Processor threads	4	Processor special features	
Processor operating modes	32-bit, 64-bit	CPU configuration (max)	1
Stepping	C0	Intel Rapid Storage Technology	✗
FSB Parity	✗	Enhanced Intel SpeedStep Technology	✓
Bus type	DMI2	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor codename	Haswell	Intel® Wireless Display (Intel® WiDi)	✓
Maximum internal memory supported by processor	32 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	1333,1600 MHz		
Memory bandwidth supported by processor (max)	25.6 GB/s		
ECC supported by processor	✓		
Execute Disable Bit	✓		

Processor		Processor special features	
Idle States	✓	Intel® Anti-Theft Technology (Intel® AT)	✓
Thermal Monitoring Technologies	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Maximum number of PCI Express lanes	16	Intel® My WiFi Technology (Intel® MWT)	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Turbo Boost Technology	2.0
Processor package size	37.5 x 37.5 mm	Intel® Quick Sync Video Technology	✓
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2	Intel® InTru™ 3D Technology	✓
Scalability	1S	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Embedded options available	✗	Intel® Insider™	✓
Thermal solution specification	PCG 2013D	Intel Flex Memory Access	✓
Graphics & IMC lithography	22 nm	Intel® Smart Cache	✓
Processor series	Intel Xeon E3-1200 v3	Intel® AES New Instructions (Intel® AES-NI)	✓
Conflict-Free processor	✗	Intel Trusted Execution Technology	✓
Memory		Intel Enhanced Halt State	✓
Internal memory *	8 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type *	DDR3-SDRAM	Intel Demand Based Switching	✗
Memory slots	4x DIMM	Intel® Secure Key	✓
ECC	✓	Intel TSX-NI	✓
Memory clock speed	1600 MHz	Intel Stable Image Platform Program (SIPP)	✓
Maximum internal memory *	32 GB	Intel® OS Guard	✓
Storage		Intel Clear Video Technology	✗
Maximum storage capacity *	12 TB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Total storage capacity *	1 TB	Intel 64	✓
Number of HDDs installed	1	Intel Identity Protection Technology version	1.00
HDD capacity	1 TB	Intel Stable Image Platform Program (SIPP) version	1.00
HDD interface	Serial ATA III	Intel Secure Key Technology version	1.00
HDD speed	7200 RPM	Intel Virtualization Technology (VT-x)	✓
HDD size	3.5"	Intel TSX-NI version	1.00
Number of HDDs supported	4	Intel Dual Display Capable Technology	✗
Supported HDD sizes	3.5"	Intel FDI Technology	✓
RAID support *	✓	Intel I/O Acceleration Technology	✓
RAID levels	0, 1, 10, 5	Intel Fast Memory Access	✓
Optical drive type *	DVD±RW	Processor ARK ID	80917
Supported storage drive interfaces	Serial ATA, Serial ATA II, Serial ATA III	Power	
Graphics		Redundant power supply (RPS) support *	✗
On-board graphics card	✓	Power supply *	450 W
On-board graphics card family	Intel® HD Graphics	Number of main power supplies	1
On-board graphics card model	Intel® HD Graphics P4600	Weight & dimensions	
On-board graphics card base frequency	350 MHz	Width	175 mm
On-board graphics card dynamic frequency (max)	1200 MHz	Depth	431 mm
Maximum on-board graphics card memory	1.74 GB	Height	375 mm
On-board graphics card DirectX version	11.2	Weight	11.2 kg
Number of execution units	20	Other features	
Number of displays supported (on-board graphics)	3	Graphics card	HD Graphics P4600
Network		Graphics card family	Intel
Wake-on-LAN ready	✓	Intel® Virtualization Technology (Intel® VT)	VT-x, VT-d
Ethernet LAN	✓		
Cabling technology	10/100/1000Base-T(X)		
Ethernet interface type	Gigabit Ethernet		
Ports & interfaces			
Ethernet LAN (RJ-45) ports *	1		
USB 2.0 ports quantity	2		

**Ports & interfaces**

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	6
VGA (D-Sub) ports quantity	1
Serial ports quantity	1

## Catalog Object Cloud



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