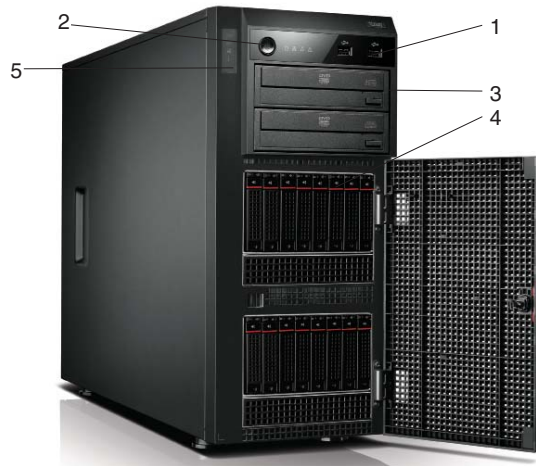


ThinkServer TD340 Overview



Front view

1. Front I/O: 2 USB 2.0
2. Power Button
3. Two 5.25" optical drive bays
4. 16 x 2.5" hot-swap drive bays
(on selected models,
also supports one of the following:
4 x 3.5" direct cable bays,
or 4 x 3.5" hot-swap bays,
or 8 x 3.5" hot-swap bays,
or 8 x 2.5" hot-swap bays)
5. Intelligent Diagnostics Module (optional)



Rear view

6. Hot-swap power supplies, 800W, 80 PLUS Gold
(on selected models, also supports one fixed
power supply, 625W, 80 PLUS Bronze)
7. Rear I/O: 4 USB 2.0
1 Serial (9-pin)
2 RJ-45 (one for dedicate/share
management)
1 VGA
8. Expansion slots*:
1 PCIe 3.0 x8 (*near rear I/O, 2nd CPU is needed*)
1 PCIe 3.0 x16
1 PCIe 3.0 x8 (*2nd CPU is needed*)
1 PCIe 3.0 x8 (*2nd CPU is needed*)
1 PCIe 3.0 x8 (*x4 elec*)
1 PCI
* Add-on ethernet adapter, RAID adapter,
and graphics adapter are optional

Internal

- Two LGA1356 sockets, supports up to two processors from Intel Xeon E5-2400 v2 and E5-2400 families
- 12 DIMM sockets, supports up to 192GB ECC LV RDIMM or 48GB ECC LV UDIMM memory
- Up to 16 x 2.5" hard drive bays

Mechanical

- Tower, business black color, metal case
- Rack-mountable to 5U
- W x H (without foot) x D = 7.68"/195mm x 16.9"/430mm x 23.4"/595mm
- 57.32 lb (26kg) max configuration

ThinkServer TD340 Platform Systems Specifications - I of II

Components	Specifications																
Mechanical	<ul style="list-style-type: none">Tower, rack-mountable to 5U via optional conversion kit7.68" W x 23.4" D x 16.9" H (without foot)195mm W x 595mm D x 430mm H (without foot)57.3 lb (26kg) max configuration																
Chipset	Intel C606 Chipset																
Processors	Two LGA1356 sockets, supports up to two processors from Intel Xeon E5-2400 v2 or Xeon E5-2400 families, the following processor options are supported:																
	<table><tr><th rowspan="2">Processor Number</th><th rowspan="2"># of Cores</th><th rowspan="2"># of Threads</th><th colspan="6">Processors Specifications*</th><th rowspan="2">Part Number</th></tr><tr><th>Clock Speed</th><th>Max Turbo Frequency</th><th>Cache</th><th>QPI Speed</th><th>Max TDP</th><th>Memory Speed</th></tr></table>	Processor Number	# of Cores	# of Threads	Processors Specifications*						Part Number	Clock Speed	Max Turbo Frequency	Cache	QPI Speed	Max TDP	Memory Speed
	Processor Number				# of Cores	# of Threads	Processors Specifications*						Part Number				
		Clock Speed	Max Turbo Frequency	Cache			QPI Speed	Max TDP	Memory Speed								
	Intel Xeon E5-2400 v2 Series																
	Xeon E5-2470 v2	10	20	2.4 GHz	3.2 GHz	25MB	8 GT/s	95W	DDR3-1600	0C19561							
	Xeon E5-2450L v2	10	20	1.7 GHz	2.1 GHz	25MB	7.2 GT/s	60W	DDR3-1600	0C19568							
	Xeon E5-2450 v2	8	16	2.5 GHz	3.3 GHz	20MB	8 GT/s	95W	DDR3-1600	0C19562							
	Xeon E5-2440 v2	8	16	1.9 GHz	2.4 GHz	20MB	7.2 GT/s	95W	DDR3-1600	0C19563							
	Xeon E5-2430L v2	6	12	2.4 GHz	2.8 GHz	15MB	7.2 GT/s	60W	DDR3-1600	0C19569							
	Xeon E5-2430 v2	6	12	2.5 GHz	3 GHz	15MB	7.2 GT/s	80W	DDR3-1600	0C19564							
	Xeon E5-2420 v2	6	12	2.2 GHz	2.7 GHz	15MB	7.2 GT/s	80W	DDR3-1600	0C19565							
	Xeon E5-2407 v2	4	4	2.4 GHz	2.4 GHz	10MB	6.4 GT/s	80W	DDR3-1333	0C19566							
	Xeon E5-2403 v2	4	4	1.8 GHz	1.8 GHz	10MB	6.4 GT/s	80W	DDR3-1333	0C19567							
	Intel Xeon E5-2400 Series																
Xeon E5-2420	6	12	1.9 GHz	2.4 GHz	15MB	7.2 GT/s	95 W	DDR3-1333	0A89456								
	<i>Notes:</i> All processors specifications is provided by Intel and may be changed at any time without notice. The information herein is provided "as-is". Intel may update this information in non-scheduled. For latest information, please see http://ark.intel.com/																
Memory type	1600MHz, LV UDIMM or LV RDIMM, DDR3, 3-channel per processor, 240-pin																
Memory DIMMs	Twelve DIMM sockets, six DIMM sockets per processor																
Memory capacity	Up to 192GB DDR3 LV RDIMM (16GB x 12) or up to 48GB DDR3 LV UDIMM (4GB x 12)																
Memory protection	ECC, memory mirroring, memory sparing																
Additional memory disclaimers	<ul style="list-style-type: none">Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMsMaximum memory operating speed are 1333MT/s on LV UDIMM modelsOver six DIMMs requires dual processorsMixing of LV UDIMM or LV RDIMM is not supported																
Disk bays configurations	Supports one of the following disk bay configurations: 4 x 3.5" non-hot swap disk bays, supports SATA non-hot swap hard drives 4 x 3.5" hot-swap Disk bays, supports SATA/SAS hot-swap hard drives or SSD drives 8 x 3.5" hot-swap Disk bays, supports SATA/SAS hot-swap hard drives or SSD drives 8 x 2.5" hot-swap Disk bays, supports SATA/SAS hot-swap hard drives or SSD drives 16 x 2.5" hot-swap Disk bays, supports SATA/SAS hot-swap hard drives or SSD drives																
RAID support	RAID adapter	Disk type	RAID support*	Cache	Transfer rates	Optional upgrades											
	RAID 100 (onboard)	SATA	0, 1, 10		6Gb/s	optional upgrade key, add RAID 5 support											
	RAID 300 (onboard)	SATA/SAS	0, 1, 10		6Gb/s	optional upgrade key, add RAID 5 support											
	RAID 500 (LSI 9240-8i)	SATA/SAS	0, 1, 10		6Gb/s	optional upgrade key, add RAID 5, 50 support											
	RAID 700 (LSI 9260-8i)	SATA/SAS	0, 1, 10, 5, 50, 6, 60	512MB	6Gb/s	optional intelligent Battery Backup Unit (iBBU08)											
	RAID 710 (LSI 9270CV-8i)	SATA/SAS	0, 1, 10, 5, 50, 6, 60	1GB	6Gb/s	<ul style="list-style-type: none">optional CacheVault (CV) flash cache with super capacitoroptional CacheCade Pro 2.0optional FastPath key											
	*RAID 50, 60 are functional on 8 or 16 disk bay models only, RAID100 supports SATA drives only																
Optical drive (optional)	Supports two half-height 5.25" optical bays, up to two optical drives																
Onboard network	Two Gigabit Ethernet port via two Intel 82574L, either port can be set to dedicate/share management via BIOS																

ThinkServer TD340 Platform Systems Specifications - II of II

Components	Specifications		
Front ports	Two USB 2.0		
Rear ports	Four USB 2.0, one serial (9-pin), two ethernet (RJ-45, one for dedicate/share mgmt), one analog VGA DB-15 connector		
Internal USB	One internal USB port (Type A)		
Expansion Slots	Up to six PCI-Express slots (only slot 1, 2, 5 are functional for single processor models): Slot 1: half-length, full-height, 32-bit PCI 2.3 Slot 2: half-length, full-height, PCIe 3.0 x8 (<i>x4 elec</i>) Slot 3: half-length, full-height, PCIe 3.0 x8 Slot 4: half-length, full-height, PCIe 3.0 x8 Slot 5: half-length, full-height, PCIe 3.0 x16 Slot 6: half-length, full-height, PCIe 3.0 x8 (<i>near CPU</i>)		
Graphics	Onboard Aspeed AST2300 graphics/management processor, one VGA DB-15 on rear (<i>Maximum resolution: 1600x1200@60Hz</i>). Discrete NVIDIA NVS 300 graphics adapter is available on selected models		
Intelligent Diagnostics Module (optional)	Supports optional Intelligent Diagnostics Module (IDM) on selected models, IDM LED lights indicate failing component category		
Systems management (TMM Premium is optional)	<ul style="list-style-type: none"> Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); optional ThinkServer Management Module Premium for iKVM functions Front control panel LEDs shows the status of power, hard drive activity, network, system ThinkServer EasyStartup/EasyManage/EasyUpdate 		
Security features (TPM is optional)	Power-on password/administrator password/Trusted Platform Module (TCG 1.2-compliant, optional)		
Power supply	Supports one of the following, depending on models: <ul style="list-style-type: none"> One fixed 625 watts, universal, 80 PLUS Bronze qualified Up to two redundant 800 watts, two maximum, rear access, hot-swap, 80 PLUS Gold qualified, redundant with two power supplies 		
Safety, environment, and certifications	Environmental certifications	<ul style="list-style-type: none"> Energy Star Server 2.0 qualified for models with 800 watts hot-swap PSU Energy Star Server 1.1 qualified for models with 625 watts fixed PSU RoHS-compliant 	
	EMC	FCC Class A, CSA, CE	
	240VA	Supports	
	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)	
	Temperature - non operating (no package)	-10 °C to 60 °C	
	Temperature - non operating (with package)	-40 °C to 60 °C	
	Altitude - operating	Supported Altitude (unpressurized): 0-10000ft (0-3048m)	
	Humidity - operating	10%~80%, non-condensing	
	Humidity - non operating (no package)	8%~90%, non-condensing	
	Humidity - non operating (with package)	8%~90%, non-condensing	
	Acoustic noise (idle/working mode)	System Configuration	
		Category	Entry level High-end
		CPU	1 x CPU 2 x CPU
		Optical Drive	1 DVD-ROM 1 DVD-ROM
		Drive Bays	4 x 3.5" direct cable 8 x 3.5" hot-swap
		HDD	2 x 500GB 3.5" SATA 8 x 2TB 3.5" SAS
		Memory	2GB x 1 (LV UDIMM) 8GB x 12 (LV RDIMM)
		PSU	1 x 625 watts fixed 1 x 800 watts hot-swap
		RAID	RAID 1 RAID 5
		Expansion Adapters	No 1 x RAID 700 2 x Ethernet Adapters
		Sound Pressure (operating)	37.0 dB(A) 42.0 dB(A)
		Sound Pressure (idle)	35.0 dB(A) 38.0 dB(A)