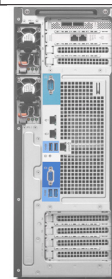


ThinkServer TD350 Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification	Components	Specification						
Dimensions	Tower or 4U rack. Tower: Height: 459 mm (18.1 in), width: 251 mm (9.9 in), depth: 686 mm (27 in) Rack: height: 173 mm (6.8 in), width: 482 mm (19 in), depth: 686 mm (27 in)	Maximum internal storage	3.5" model: up to 120TB with 7.2K SATA or SAS HDD, up to 27TB with 10K SAS HDD, up to 9TB with 15K SAS HDD, or up to 24TB with SATA or SAS SSD. 2.5" model: up to 64TB with 7.2K SATA HDD, up to 57.6TB with 10K SAS HDD, up to 19.2TB with 15K SAS HDD, or up to 51.2TB with SATA or SAS SSD						
Weight	Minimum configuration: 22 kg (48.5 lb), maximum: 41.4 kg (91.27 lb)	SD module	Up to 2 SDHC flash cards via optional SD module, 8GB or 32GB each						
Processor	Up to two 135W Intel Xeon E5-2600 v4 or E5-2600 v3 family processors.	Optical drive	Two 5.25" bays for optical drive. DVD-ROM or DVD±RW. Half-height or 9.5mm						
	E5-2698 v4	20C/2.2GHz/50MB/135W/DDR4-2400	Network interfaces	One dedicate management port, two gigabit ethernet ports. Supports optional discrete network adapters via PCIe slots					
	E5-2695 v4	18C/2.1GHz/45MB/120W/DDR4-2400	Security features	Power-on and administrator password. Optional TPM (TCG 1.2 or 2.0-compliant)					
	E5-2690 v4	14C/2.6GHz/35MB/135W/DDR4-2400	Systems management	Supports ThinkServer System Manager (TSM), optional TSM Premium for remote presence. UEFI. Onboard Aspeed AST2400 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC). Control Panel LEDs shows the status of power, ID, network, system. Supports ThinkServer Diagnostics, ThinkServer Deployment Manager, ThinkServer Energy Manager, ThinkServer System Manager CLI, Lenovo ThinkServer Partner Pack for VMware vCenter and Microsoft System Center Operations Manager, ThinkServer Power Planner.					
	E5-2683 v4	16C/2.1GHz/40MB/120W/DDR4-2400		Operating systems supported	Microsoft Windows Server 2016/2012 R2/2012/2008 R2. Windows Small Business Server 2011. Red Hat Enterprise Linux 6.5/6.6/7. SUSE Linux Enterprise Server 11. VMware vSphere (ESXi) 5.1 P5/5.5 U2/6.0				
	E5-2680 v4	14C/2.4GHz/35MB/120W/DDR4-2400		Base warranty	1 or 3-year limited onsite service with 9x5/NBD.				
	E5-2667 v4	8C/3.2GHz/25MB/135W/DDR4-2400		Power supply	Up to two redundant hot-swap 450W/550W/750W/1100W power supplies. 450 W is 80 PLUS Gold qualified. 550W and 1100W are 80 PLUS Platinum qualified. 750W is 80 PLUS Platinum or Titanium qualified. 750W Titanium is 200V - 240V, others are 110V - 240V.				
	E5-2660 v4	14C/2GHz/35MB/105W/DDR4-2400	Disk bay configuration		PSU requirements				
	E5-2650L v4	14C/1.7GHz/35MB/65W/DDR4-2400	450W		550W	750W	1100W		
	E5-2650 v4	12C/2.2GHz/30MB/105W/DDR4-2400	5x3.5" ES		• (up to 1 CPU)	•	•	•	
	E5-2643 v4	6C/3.4GHz/20MB/135W/DDR4-2400	5x3.5" HS		• (up to 1 CPU)	•	•	•	
	E5-2640 v4	10C/2.4GHz/25MB/90W/DDR4-2133	15x3.5" HS				•	•	
	E5-2637 v4	4C/3.5GHz/15MB/135W/DDR4-2400	8x2.5" HS		• (up to 1 CPU)	•	•	•	
	E5-2630L v4	10C/1.8GHz/25MB/55W/DDR4-2133	16x2.5" HS		• (up to 1 CPU)	•	•	•	
	E5-2630 v4	10C/2.2GHz/20MB/85W/DDR4-2133	32x2.5" HS				•	•	
	E5-2623 v4	4C/2.6GHz/10MB/85W/DDR4-2133	Graphics		Onboard Aspeed AST2400 with 16MB memory, one VGA on rear				
	E5-2620 v4	8C/2.1GHz/20MB/85W/DDR4-2133		Front ports	Two USB 2.0				
	E5-2609 v4	8C/1.7GHz/20MB/85W/DDR4-1866		Rear ports	One VGA, four USB 3.0, one RJ-45 (dedicate/share mgmt), two ethernet (RJ-45), one serial (9-pin)				
	E5-2603 v4	6C/1.7GHz/15MB/85W/DDR4-1866		Cooling	4 (3+1), hot-swap				
	E5-2698 v3	16C/2.3GHz/40MB/135W/DDR4-2133		Noise emissions	Operating: < 6.5 Bels. Idle: < 6 Bels (Maximum configuration)				
	E5-2695 v3	14C/2.3GHz/35MB/120W/DDR4-2133		Environmental specification	ASHRAE Class	A4	A3	A2	
	E5-2690 v3	12C/2.6GHz/30MB/135W/DDR4-2133			Temperature - operating	41 °F to 113 °F (5 °C to 45 °C)	41 °F to 104 °F (5 °C to 40 °C)	50 °F to 95 °F (10 °C to 35 °C)	
	E5-2685 v3	12C/2.6GHz/30MB/120W/DDR4-2133			Temperature - storage (with package)	-40 °C to 60 °C			
	E5-2683 v3	14C/2GHz/35MB/120W/DDR4-2133			Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)			
	E5-2680 v3	12C/2.5GHz/30MB/120W/DDR4-2133			Humidity - operating (non-condensing)	8%~90%	8%~85%	20%~80%	
	E5-2670 v3	12C/2.3GHz/30MB/120W/DDR4-2133			Humidity - storage (with package)	8%~90%, non-condensing			
	E5-2667 v3	8C/3.2GHz/20MB/135W/DDR4-2133			ASHRAE Class A4: ES or 8x2.5" HS bays/Lenovo-qualified CPU; maximum of 120W thermal design power; not low-power type (no L-suffix in the CPU name)/No internal tape/Two PSU installed for redundancy/ Lenovo-qualified PCIe card; power consumption of each PCIe card does not exceed 15W. 32 x 2.5" models support ASHRAE Class A2, the other models support ASHRAE Class A3.				
	E5-2660 v3	10C/2.6GHz/25MB/105W/DDR4-2133			Expansion slots	Slot 1 (CPU1)	PCIe 3.0 x16, full height, full length, double-wide		
	E5-2650L v3	12C/1.8GHz/30MB/65W/DDR4-2133				Slot 2 (CPU1)	PCIe 3.0 x16 (x8 elec), full height, full length		
	E5-2650 v3	10C/2.3GHz/25MB/105W/DDR4-2133	Slot 3 (CPU1)			PCIe 3.0 x16 (x8 elec), full height, full length			
	E5-2643 v3	6C/3.4GHz/20MB/135W/DDR4-2133	Slot 4 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length					
	E5-2640 v3	8C/2.6GHz/20MB/90W/DDR4-1866	Slot 5 (CPU2)	PCIe 3.0 x16, full height, full length					
	E5-2637 v3	4C/3.5GHz/15MB/135W/DDR4-2133	Slot 6 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length					
	E5-2630L v3	8C/1.8GHz/20MB/55W/DDR4-1866	Slot 7 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length					
E5-2630 v3	8C/2.4GHz/20MB/85W/DDR4-1866								
E5-2623 v3	4C/3GHz/10MB/105W/DDR4-1866								
E5-2620 v3	6C/2.4GHz/15MB/85W/DDR4-1866								
E5-2609 v3	6C/1.9GHz/15MB/85W/DDR4-1600								
E5-2603 v3	6C/1.6GHz/15MB/85W/DDR4-1600								
Chipset	Intel C610 Series Chipset								
Memory DIMMs	16 DIMM sockets (8 DIMMs per processor), 8-channel capable (4-channel per processor). RDIMM and LRDIMM (cannot be intermixed), DDR4, up to 2400MHz								
Memory capacity	512GB (RDIMM, 32GB x 16)/1024GB (LRDIMM, 64GB x 16), 2nd CPU is needed								
Memory protection	ECC, memory mirroring, lockstep, and memory sparing								
RAID controller	RAID controller	Drive type	RAID support	Compatible models					
	Onboard RAID110i	6Gbs SATA	0/1/10,5 with optional key	5x3.5" HS/ES, 8x2.5" HS					
	RAID520i PCIe	12Gbs SAS/SATA	0/1/10,5/50 with optional key	5x3.5" HS, 8x2.5" HS					
	RAID720i PCIe	12Gbs SAS/SATA	0/1/10,5/50,6/60 with optional cache	5x3.5" HS, 8x2.5" HS					
	AnyRAID 510i	6Gbs SAS/SATA	0/1/10,5/50 with optional key	5x3.5" HS, 8x2.5" HS					
	AnyRAID 720i	12Gbs SAS/SATA	0/1/10,5/50,6/60 with optional cache	5x3.5" HS, 8x2.5" HS					
	AnyRAID 720ix	12Gbs SAS/SATA	0/1/10,5/50/6/60	15x3.5" HS, 16/32x2.5" HS					
	Optional cache for RAID 720/AnyRAID 720i and 720ix: 1GB read-only memory or 1GB/2GB/4GB flash with super capacitor. Flash options include CacheVault, Cache-Cade Pro, and FastPath. 720ix must have cache.								
Disk drive bays	Up to 15 3.5" or 32 2.5" hot-swap bays, or up to 5 3.5" easy-swap bays, on front. Up to 2 M.2 SSD drives via optional M.2 module. Up to one internal LTO-6 SAS tape drive on 720ix model, or external RDX tape drive via USB.								



Expansion slots

Slot 1 (CPU1)	PCIe 3.0 x16, full height, full length, double-wide
Slot 2 (CPU1)	PCIe 3.0 x16 (x8 elec), full height, full length
Slot 3 (CPU1)	PCIe 3.0 x16 (x8 elec), full height, full length
Slot 4 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length
Slot 5 (CPU2)	PCIe 3.0 x16, full height, full length
Slot 6 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length
Slot 7 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length

For a list of all supported options, please see https://download.lenovo.com/pccbbs/options_iso/ocm_september_2016_thinkserver.xlsx sheet