

ThinkServer TD350 Platform Specifications

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)																												
Weight	Minimum configuration: 22 kg (48.5 lb), maximum: 41.4 kg (91.27 lb)																												
Processor	Up to two 135W Intel Xeon E5-2600 v4 or E5-2600 v3 family processors.																												
	E5-2698 v4 20C/2.2GHz/50MB/135W/DDR4-2400																												
	E5-2695 v4 18C/2.1GHz/45MB/120W/DDR-2400																												
	E5-2690 v4 14C/2.6GHz/35MB/135W/DDR4-2400																												
	E5-2683 v4 16C/2.1GHz/40MB/120W/DDR-2400																												
	E5-2680 v4 14C/2.4GHz/35MB/120W/DDR4-2400																												
	E5-2667 v4 8C/3.2GHz/25MB/135W/DDR4-2400																												
	E5-2660 v4 14C/2GHz/35MB/105W/DDR4-2400																												
	E5-2650L v4 14C/1.7GHz/35MB/65W/DDR4-2400																												
	E5-2650 v4 12C/2.2GHz/30MB/105W/DDR4-2400																												
	E5-2643 v4 6C/3.4GHz/20MB/135W/DDR4-2400																												
	E5-2640 v4 10C/2.4GHz/25MB/90W/DDR4-2133																												
	E5-2637 v4 4C/3.5GHz/15MB/135W/DDR4-2400																												
	E5-2630L v4 10C/1.8GHz/25MB/55W/DDR4-2133																												
	E5-2630 v4 10C/2.2GHz/20MB/85W/DDR4-2133																												
	E5-2623 v4 4C/2.6GHz/10MB/85W/DDR4-2133																												
	E5-2620 v4 8C/2.1GHz/20MB/85W/DDR4-2133																												
	E5-2609 v4 8C/1.7GHz/20MB/85W/DDR4-1866																												
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Chipset	Intel C612 Platform Controller Hub (PCH)																												
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 2133MHz																												
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	<table border="1"> <thead> <tr> <th>RAID controller</th> <th>Drive type</th> <th>RAID support</th> <th>Compatible models</th> </tr> </thead> <tbody> <tr> <td>Onboard RAID110i</td> <td>6Gbs SATA</td> <td>0/1/10,5 with optional key</td> <td>5x3.5" HS/ES, 8x2.5" HS</td> </tr> <tr> <td>RAID520i PCIe</td> <td>12Gbs SAS/SATA</td> <td>0/1/10,5/50 with optional key</td> <td>5x3.5" HS, 8x2.5" HS</td> </tr> <tr> <td>RAID720i PCIe</td> <td>12Gbs SAS/SATA</td> <td>0/1/10,5/50,6/60 with optional cache</td> <td>5x3.5" HS, 8x2.5" HS</td> </tr> <tr> <td>AnyRAID 510i</td> <td>6Gbs SAS/SATA</td> <td>0/1/10,5/50 with optional key</td> <td>5x3.5" HS, 8x2.5" HS</td> </tr> <tr> <td>AnyRAID 720i</td> <td>12Gbs SAS/SATA</td> <td>0/1/10,5/50,6/60 with optional cache</td> <td>5x3.5" HS, 8x2.5" HS</td> </tr> <tr> <td>AnyRAID 720ix</td> <td>12Gbs SAS/SATA</td> <td>0/1/10,5/50/6/60</td> <td>15x3.5" HS, 16/32x2.5" HS</td> </tr> </tbody> </table>	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
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	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, CacheCade 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.																												

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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																																						
SD module	Up to 2 SDHC flash cards via optional SD module, 8GB or 32GB each																																						
Optical drive	Two 5.25" bays for optical drive. DVD-ROM or DVD±RW. Half-height or 9.5mm																																						
Network interfaces	One dedicate management port, two gigabit ethernet ports. Supports optional discrete network adapters via PCIe slots																																						
Security features	Power-on and administrator password. Optional TPM (TCG 1.2 or 2.0-compliant)																																						
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.																																						
	Operating systems supported	Microsoft Windows Server 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																																					
Base warranty	1 or 3-year limited onsite service with 9x5/NBD.																																						
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.																																						
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32x2.5" HS	•	•	•	•																																			
Graphics	Onboard Aspeed AST2400 with 16MB memory, one VGA on rear																																						
Front ports	Two USB 2.0																																						
Rear ports	One VGA, four USB 3.0, one RJ-45 (dedicate/share mgmt), two ethernet (RJ-45), one serial (9-pin)																																						
Cooling	4 (3+1), hot-swap																																						
Noise emissions	Operating: < 6.5 Bels. Idle: < 6 Bels (Maximum configuration)																																						
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	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.																																						
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For a list of all supported options, please see https://download.lenovo.com/pccbbs/options_iso/ocm_feb_2016_thinkserver.xlsx sheet