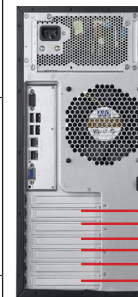


# ThinkServer TD340 Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification																																										
Dimensions	Tower or 5U rack. Height: 430 mm (16.9 in), width: 195 mm (7.68 in), depth: 595 mm (23.4 in)																																										
Weight	Maximum: 26 kg (57.3 lb)																																										
Processor	Up to two <b>95W Intel Xeon E5-2400 v2</b> family (code name: Ivy Bridge EN) processors with 10 cores up to 2.4GHz, 8 cores up to 2.5GHz, 6 cores up to 2.5GHz, 4 cores up to 2.4GHz. One QPI link up to 8.0 GT/s. Up to 1600MHz memory speed. Up to 25MB cache. Or up to two <b>Intel Xeon E5-2420</b> (code name: Sandy Bridge EN) processors with 6 cores, 1.9GHz, 15MB cache, 95W, up to 1333MHz memory speed, one 7.2GT/s QPI link																																										
Chipset	Intel C606 Platform Controller Hub (PCH)																																										
Memory DIMMs	12 DIMM sockets (6 DIMMs per processor). 6-channel capable (3-channel per processor). RDIMM, LV RDIMM and LV UDIMM (cannot be intermixed). DDR3. Up to 1866MHz (RDIMM), 1600MHz (LV RDIMM) or 1600MHz (LV UDIMM)																																										
Memory capacity	192GB (RDIMM and LV RDIMM, 16GB x 12)/48GB (LV UDIMM, 4GB x 12)																																										
Memory protection	ECC, memory mirroring, memory sparing																																										
AnyRAID support	Supports one of the following: RAID 0, 1, 10 with onboard RAID 100, 6Gb/s SATA, optional key for RAID 5. RAID 0, 1, 10 with onboard RAID 300, 6Gb/s SAS/SATA, optional key for RAID 5. RAID 0, 1, 10 with RAID 500, PCIe adapter, 6Gb/s SAS/SATA, optional key for RAID 5, 50. RAID 0, 1, 10, 5, 50, 6, 60 with RAID 700, PCIe adapter, 512MB cache, optional intelligent Battery Backup Unit (iBBU08). RAID 0, 1, 10, 5, 50, 6, 60 with RAID 710, PCIe adapter, 1GB cache, optional CacheVault flash cache with super capacitor/CacheCade Pro 2.0/FastPath key <i>Note: At least 6 disk drives is required for RAID 50 and 60.</i>																																										
Disk drive bays	Up to 8 3.5" hot-swap bays, or up to 16 2.5" hot-swap bays, or up to 4 3.5" non-hot swap bays. On front. Supports internal RDX tape drive, consumes 5.25" bay, also supports optional external SAS tape drive, additional SAS HBA card is needed. <table><tr><th>Disk bay configuration</th><th colspan="5">RAID controller requirements</th></tr><tr><th></th><th>RAID100</th><th>RAID300</th><th>RAID500</th><th>RAID700</th><th>RAID710</th></tr><tr><td>4x3.5" non-hot swap</td><td>•</td><td></td><td></td><td></td><td></td></tr><tr><td>4x3.5" HS</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr><tr><td>8x3.5" HS</td><td></td><td>•</td><td>•</td><td>•</td><td>•</td></tr><tr><td>8x2.5" HS</td><td></td><td>•</td><td>•</td><td>•</td><td>•</td></tr><tr><td>16x2.5" HS</td><td></td><td></td><td>•</td><td>•</td><td>•</td></tr></table>	Disk bay configuration	RAID controller requirements						RAID100	RAID300	RAID500	RAID700	RAID710	4x3.5" non-hot swap	•					4x3.5" HS	•	•	•	•	•	8x3.5" HS		•	•	•	•	8x2.5" HS		•	•	•	•	16x2.5" HS			•	•	•
Disk bay configuration	RAID controller requirements																																										
	RAID100	RAID300	RAID500	RAID700	RAID710																																						
4x3.5" non-hot swap	•																																										
4x3.5" HS	•	•	•	•	•																																						
8x3.5" HS		•	•	•	•																																						
8x2.5" HS		•	•	•	•																																						
16x2.5" HS			•	•	•																																						
Supporting disk drives	3.5" SATA HDD (both HS and NHS) 7.2K 6Gbs: 7.2K 6Gbs: 500GB/1TB/2TB/3TB/4TB 3.5" SAS HDD (HS) 7.2K 6Gbs: 1TB/2TB/3TB/4TB. 15K 6Gbs: 300GB/600GB 2.5" SATA HDD (HS) 7.2K 6Gbs: 500GB/1TB. 10K 6Gbs: 300GB/600GB/900GB 2.5" SAS HDD (HS) 15K 6Gbs: 146GB/300GB/600GB 2.5" SATA SSD (HS, also supports 3.5" HS bay) 6Gbs: 120GB/240GB/300GB/480GB/600GB 2.5" SAS SSD (HS, also supports 3.5" HS bay) 12Gbs: 200GB/400GB/800GB PCIe SSD 1.4TB, via PCIe 2.0 x8 adapter <i>Note: Supports up to 2 SSD drives on 8 x 3.5" HS model, up to 4 SSD drives on 16 x 2.5" HS model.</i>																																										
Optical drive	Two 5.25" bays for optical drive. DVD-ROM or DVD±RW. Half-height																																										
Network interfaces	Two Gigabit Ethernet port via two Intel 82574L. One port is shared with ThinkServer Management Module. Supports optional discrete network adapters via PCIe slots																																										

Components	Specification										
Security features	Power-on and administrator password. Optional TPM (TCG 1.2-compliant)										
Intelligent Diagnostics Module (IDM)	Supports IDM or IDM Premium on selected models, IDM LED lights indicate failing component category, IDM Premium LED lights indicate individual failing part										
Systems management	Supports ThinkServer Management Module (TMM), optional TMM Premium for remote presence. Onboard Aspeed AST2300 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC). Front control panel LEDs shows the status of power, hard drive activity, network, system. Supports EasyStartup, EasyManage, EasyUpdate.										
Operating systems supported	Microsoft Windows Server 2012 R2/2012/2008 R2/2008. Windows Small Business Server 2011. Red Hat Enterprise Linux 7.1/7/6.7/6.5/6.4/5.10/5.9. SUSE Linux Enterprise Server 11/10. VMware vSphere (ESXi) 5.5/5.1										
Base warranty	1 or 3-year limited onsite service with 9x5/NBD.										
Power supply	One fixed 625 watts, universal, 80 PLUS Bronze qualified. Or up to two redundant 800 watts, two maximum, rear access, hot-swap, 80 PLUS Gold qualified, redundant with two power supplies										
Graphics	Onboard Aspeed AST2300 graphics/management processor										
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										
Noise emissions	Operating: < 42 dB(A). Idle: < 38 dB(A) (Maximum configuration)										
Environmental specification	<p>Energy Star Server 1.1 qualified for 625W models, Energy Star Server 2.0 qualified for 800W models. RoHS-compliant.</p> <table border="1"> <tbody> <tr> <td>Temperature - operating</td><td>50 °F to 95 °F (10 °C to 35 °C)</td></tr> <tr> <td>Temperature - storage (with package)</td><td>-40 °C to 60 °C</td></tr> <tr> <td>Altitude - operating</td><td>Supported Altitude (unpressurized): 0-10000ft (0-3048m)</td></tr> <tr> <td>Humidity - operating</td><td>10%-80%, non-condensing</td></tr> <tr> <td>Humidity - storage (with package)</td><td>8%-90%, non-condensing</td></tr> </tbody> </table>	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)	Temperature - storage (with package)	-40 °C to 60 °C	Altitude - operating	Supported Altitude (unpressurized): 0-10000ft (0-3048m)	Humidity - operating	10%-80%, non-condensing	Humidity - storage (with package)	8%-90%, non-condensing
Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)										
Temperature - storage (with package)	-40 °C to 60 °C										
Altitude - operating	Supported Altitude (unpressurized): 0-10000ft (0-3048m)										
Humidity - operating	10%-80%, non-condensing										
Humidity - storage (with package)	8%-90%, non-condensing										



## Expansion slots

Slot 1 (PCH)	32-bit PCI 2.3, half-length, full-height
Slot 2 (CPU1)	PCIe 3.0 x8 (x4 elec), half-length, full-height
Slot 3 (CPU2)	PCIe 3.0 x8, half-length, full-height
Slot 4 (CPU2)	PCIe 3.0 x8, half-length, full-height
Slot 5 (CPU1)	PCIe 3.0 x16, half-length, full-height
Slot 6 (CPU2)	PCIe 3.0 x8, half-length, full-height