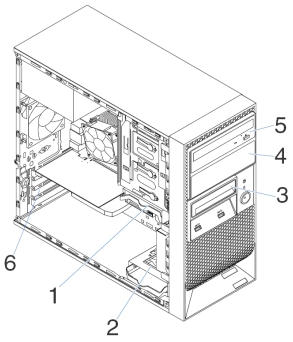
# ThinkServer TS150 Platform Specifications



| Components | Specification |
|---|---|
| Dimensions | Tower or 4U rack.<br>Height: 375 mm (14.76 in), width: 175 mm (6.89 in), depth: 431 mm (16.97 in) |
| Weight | Maximum configuration: 27.6 lb (12.5kg) |
| Processor | One Intel "Kaby Lake" or "Skylake" processor as listed:<br>"Kaby Lake" processors:<br>Xeon E3-1280 v6 / 4C/3.9GHz/8MB/72W/DDR4-2400<br>Xeon E3-1275 v6 / 4C/3.8GHz/8MB/73W/DDR4-2400<br>Xeon E3-1270 v6 / 4C/3.8GHz/8MB/72W/DDR4-2400<br>Xeon E3-1245 v6 / 4C/3.7GHz/8MB/73W/DDR4-2400<br>Xeon E3-1240 v6 / 4C/3.7GHz/8MB/72W/DDR4-2400<br>Xeon E3-1230 v6 / 4C/3.5GHz/8MB/72W/DDR4-2400<br>Xeon E3-1225 v6 / 4C/3.3GHz/8MB/73W/DDR4-2400<br>Xeon E3-1220 v6 / 4C/3GHz/8MB/72W/DDR4-2400<br>Core i3-7320 / 2C/4.1GHz/4MB/51W/DDR4-2400<br>Core i3-7300T / 2C/3.5GHz/4MB/35W/DDR4-2400<br>Core i3-7300 / 2C/4GHz/4MB/51W/DDR4-2400<br>Core i3-7100T / 2C/3.4GHz/3MB/35W/DDR4-2400<br>Core i3-7100 / 2C/3.9GHz/3MB/51W/DDR4-2400<br>Pentium G4620 / 2C/3.7GHz/3MB/51W/DDR4-2400<br>Pentium G4600T / 2C/3GHz/3MB/35W/DDR4-2400<br>Pentium G4600 / 2C/3.6GHz/3MB/51W/DDR4-2400<br>Pentium G4560T / 2C/2.9GHz/3MB/35W/DDR4-2400<br>Pentium G4560 / 2C/3.5GHz/3MB/54W/DDR4-2400<br>Celeron G3950 / 2C/3GHz/2MB/51W/DDR4-2133<br>Celeron G3930T / 2C/2.7GHz/2MB/35W/DDR4-2133<br>Celeron G3930 / 2C/2.9GHz/2MB/51W/DDR4-2133<br>"Skylake" processors:<br>Xeon E3-1280 v5 / 4C/3.7GHz/8MB/80W/DDR4-2133<br>Xeon E3-1270 v5 / 4C/3.6GHz/8MB/80W/DDR4-2133<br>Xeon E3-1240 v5 / 4C/3.5GHz/8MB/80W/DDR4-2133<br>Xeon E3-1230 v5 / 4C/3.4GHz/8MB/80W/DDR4-2133<br>Xeon E3-1220 v5 / 4C/3GHz/8MB/80W/DDR4-2133<br>Xeon E3-1275 v5 / 4C/3.6GHz/8MB/80W/DDR4-2133<br>Xeon E3-1245 v5 / 4C/3.5GHz/8MB/80W/DDR4-2133<br>Xeon E3-1225 v5 / 4C/3.3GHz/8MB/80W/DDR4-2133<br>Core i3-6320 / 2C/3.9GHz/4MB/51W/DDR4-2133<br>Core i3-6300 / 2C/3.8GHz/4MB/51W/DDR4-2133<br>Core i3-6300T / 2C/3.3GHz/4MB/35W/DDR4-2133<br>Core i3-6100 / 2C/3.7GHz/3MB/51W/DDR4-2133<br>Core i3-6100T / 2C/3.2GHz/3MB/35W/DDR4-2133<br>Pentium G4520 / 2C/3.6GHz/3MB/51W/DDR4-2133<br>Pentium G4500 / 2C/3.5GHz/3MB/51W/DDR4-2133<br>Pentium G4500T / 2C/3GHz/3MB/35W/DDR4-2133<br>Pentium G4400 / 2C/3.3GHz/3MB/54W/DDR4-2133<br>Pentium G4400T / 2C/2.9GHz/3MB/35W/DDR4-2133<br>Celeron G3920 / 2C/2.9GHz/2MB/51W/DDR4-2133<br>Celeron G3900 / 2C/2.8GHz/2MB/51W/DDR4-2133<br>Celeron G3900T / 2C/2.6GHz/2MB/35W/DDR4-2133 |
| Chipset | Intel C236 Platform Controller Hub (PCH) |
| Memory DIMMs | 4 DIMM sockets with 2 channels, 2 DIMMs per channel. UDIMM. Up to DDR4-2400 |
| Memory capacity | 64GB (16GB x 4) |
| Memory protection | ECC |
| RAID controller | RAID controller: Onboard RAID121i / Drive type: 6Gbs SATA / RAID support: 0/1/5/10<br>RAID controller: RAID520i PCIe / Drive type: 12Gbs SAS/SATA / RAID support: 0/1/10, 5 with optional key |
| Disk bays | Supports up to four 3.5" or hybrid 3.5" + 2.5" disk drives , or up to five 2.5" disk drives. one 9.5mm optical (see right). Non-hot swap. Cables are connected to onboard SATA connectors or PCIe RAID controller. Supports one optional internal USB RDX Tape drive |
| Supporting storage | 3.5" HDD, 7.2K SATA6Gbs / 500GB/1TB/2TB/3TB/4TB/5TB/6TB/10TB<br>2.5" HDD, 7.2K SATA6Gbs / 500GB/1TB/2TB<br>2.5" SSD, SATA6Gbs / 120GB/240GB/480GB/600GB/800GB/960GB |

| Components | Specification |
|---|---|
| SD module | Optional. Up to 2 SDHC flash cards via SD module, 8GB each |
| Optical drive | Up to two half-height optical drives or one 9.5mm optical. DVD-ROM or DVD±RW |
| Network interfaces | One Gigabit Ethernet port, Intel i219LM. Supports optional discrete network adapters via PCIe slots |
| Security features | Power-on and administrator password. TPM (TCG 1.2-compliant) |
| Systems management | UEFI, system LEDs, EasyStartup, EasyUpdate, Power Planner, and Diagnostics. Intel Active Management Technology 11 on models with Xeon processors. Intel Standard Manageability on models with Core i3, Pentium, or Celeron proces-sors.<br>KVM is supported on models with Xeon E3-12x5 v5 processors |
| Operating systems | Microsoft Windows Server 2016/2012 R2/2012, Windows MultiPoint Server 2012,<br>Windows 10 Pro. Red Hat Enterprise Linux 6.7/7.2. SUSE Linux Enterprise Server 11/12. VMware vSphere (ESXi) 5.5U3/6.0U2 |
| Base warranty | 1 or 3-year limited onsite service with 9x5/NBD |
| Power supply | Supports one of the follwing:<br>• One fixed 250 watts, autosensing, 85%, 80 PLUS Bronze qualified<br>• One fixed 400 watts, autosensing, 92%, 80 PLUS Platinum qualified |
| Graphics | Integrated Intel HD Graphics on Xeon E3-12x5 v5, Core i3, Pentium, and Celeron processors. Uses main memory, works along with discrete graphics to support multi-display, enables two display connectors (1 DP, 1 VGA) on rear ports.<br>Also supports the following discrete graphics adapter options:<br>• NVIDIA Quadro NVS 315, 1GB<br>• NVIDIA Quadro K620, 2GB |
| HD Audio | Realtek ALC662 codec |
| Front ports | Two USB 3.0 |
| Rear ports | One VGA, one DisplayPort, six USB 3.0, one RJ-45, one serial (9-pin), three analog audio ports (line-in, line-out, mic-in). Optional parallel or serial ports via PCIe adapters |
| Noise emissions | Operating: < 35 dB(A). Idle: < 34 dB(A) (Maximum configuration) |
| Environmental specification | Temperature - operating: 50 °F to 95 °F (10 °C to 35 °C)<br>Temperature - non operating (with package): -40 °C to 60 °C<br>Altitude - operating: (Unpressurized): 0-10000ft (0-3048m)<br>Humidity - operating: 8%~80%, non-condensing<br>Humidity - storage (with package): 10%~90%, non-condensing |




*Note:*
*1. PCIe cards are optional.*
*2. Disk tray comes with the disk drive.*

**Disk Bays and PCIe Slots**

| | 4 x 3.5" | 5 x 2.5" | 4 x hybrid 3.5" + 2.5" |
|---|---|---|---|
| Bay 1 | 1st HDD bay | 1st HDD bay | 1st HDD bay, 3.5"/2.5" |
| Bay 2 | 2nd HDD bay | 2nd HDD bay | 2nd HDD bay, 3.5"/2.5" |
| Bay 3 | Not supported | 3rd HDD bay | Not supported on standard models. Supports one 2.5" disk drive for special bid only |
| Bay 4 | 2nd half-height optical, or RDX tape drive, or 3rd HDD bay | 2nd half-height optical, or RDX tape drive, or 4th HDD bay | 2nd half-height optical, or RDX tape drive, or 3rd HDD bay (3.5"/2.5") |
| Bay 5 | 1st half-height optical, or 9.5mm optical + 4th HDD bay | 1st half-height optical, or 9.5mm optical +5th HDD bay | 1st half-height optical, or 9.5mm optical + 4th HDD bay (3.5"/2.5") |
| 6 | Four PCIe slots (top-down):<br>Slot 1: PCIe 3.0 x16, full height, half length (near CPU)<br>Slot 2: PCIe 3.0 x1, full height, half length<br>Slot 3: PCIe 3.0 x16 (x4 elec), full height, half length<br>Slot 4: PCIe 3.0 x1, full height, half length | | |

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