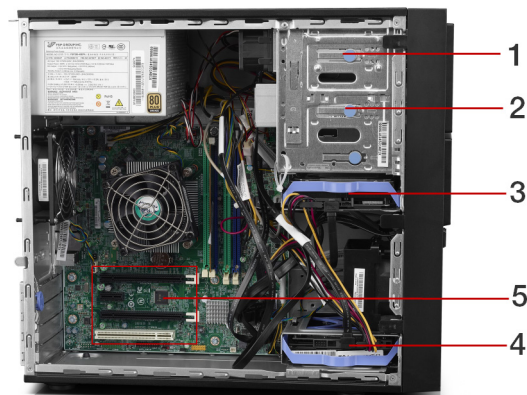


ThinkServer TS140 Platform Specifications

Product Specifications Reference (PSREF)

| Components | Specification |
|-----------------------------|---|
| Dimensions | Tower or 4U rack. Height: 375 mm (14.76 in), width: 175 mm (6.89 in), depth: 431 mm (16.97 in) |
| Weight | Maximum configuration: 28.66 lb (13kg) |
| Processor | Supports one of the following Intel processors (code name: Haswell): <ul style="list-style-type: none"> Xeon E3-1200 v3: up to 4C/3.7GHz/8MB/84W/1600MHz Core i3: up to 2C/3.7GHz/4MB/54W/1600MHz Pentium: up to 2C/3.4GHz/3MB/53W/1600MHz Celeron: up to 2C/2.9GHz/2MB/53W/1333MHz |
| Chipset | Intel C226 Platform Controller Hub (PCH) |
| Memory DIMMs | 4 DIMM sockets, 2-channel capable. UDIMM, DDR3, up to 1600MHz |
| Memory capacity | 32GB |
| Memory protection | ECC |
| RAID controller | Supports one of the following onboard or PCIe RAID adapters <ul style="list-style-type: none"> RAID 0, 1, 5, 10 with onboard RAID 100, 6Gb/s SATA. RAID 0, 1, 10 with RAID 500, PCIe adapter, 6Gb/s SAS/SATA, optional key for RAID5. RAID 0, 1, 5, 10 with RAID 700, PCIe adapter, 6Gb/s SAS/SATA |
| Disk drive bays | Two external 5.25" bays, two internal 3.5" bays (see right). Up to one 9.5mm optical plus 4 3.5" or 2.5" disk drives. Supports internal RDX tape drive, consumes 5.25" bay, also support optional external USB RDX tape drive. All disk drive bays are direct cabled, non-hot swap |
| Maximum internal storage | Up to 24TB with 7.2K SATA HDD, up to 16TB with 7.2K SAS HDD, up to 1.92TB with SATA SSD |
| Optical drive | Two 5.25" bays for optical. DVD-ROM or DVD±RW. Half-height or 9.5mm |
| Network interfaces | One onboard gigabit ethernet, Intel I217, shared with AMT. Supports optional discrete network adapters via PCIe slots |
| Security features | Power-on and administrator password. TPM (TCG 1.2-compliant). Optional padlock loop, Kensington cable lock |
| Systems management | Intel Active Management Technology 9 on models with Xeon processors. Intel Standard Manageability on models with Core i3, Pentium, or Celeron processors. KVM is supported on models with Xeon E3-12x5 v3 processors |
| Operating systems supported | Microsoft Windows Server 2012 R2/2012/2008 R2. Windows Small Business Server 2011. Windows 8.1/8/7(except Home edition). Red Hat Enterprise Linux 6.5/6.7/7.1. SUSE Linux Enterprise Server 11 SP4. VMware vSphere (ESXi) 5.1 U2/5.5 U1/5.5 U2/5.5 U3 <i>Note: VMware requires processors with Intel HD, add-on network adapters, and PCIe RAID adapters</i> |
| Base warranty | 1 or 3-year limited onsite service with 9x5/NBD. |
| Power supply | Supports one of the following: <ul style="list-style-type: none"> One fixed 280 watts, autosensing, 85%, 80 PLUS Bronze qualified One fixed 450 watts, autosensing, 92%, 80 PLUS Platinum qualified |
| Graphics | Integrated Intel HD Graphics on Xeon E3-12x6 v3, Xeon E3-12x5 v3, Core i3, Pentium, and Celeron processors. Uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DP, 1 VGA) on rear ports. Also supports the following optional discrete graphics adapters: <ul style="list-style-type: none"> NVIDIA Quadro NVS 300, PCIe adapter, 512MB NVIDIA Quadro K600, PCIe adapter, 1GB |

| Components | Specification | |
|-----------------------------|---|---|
| Front ports | Two USB 3.0 (blue) | |
| Rear ports | 1 VGA and 2 DisplayPort (for Intel HD Graphics models only), two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in). Optional parallel or serial ports via PCI or PCIe adapters | |
| Noise emissions | Operating: < 35 dB(A). Idle: < 34 dB(A) (Maximum configuration) GREENGUARD certified, Energy Star Server 1.1 qualified, RoHS-compliant | |
| Environmental specification | Temperature - operating | 50 °F to 95 °F (10 °C to 35 °C) |
| | Temperature - storage (with package) | -40 o C to 70 o C |
| | Altitude - operating | Supported Altitude (unpressurized): 0-10000ft (0-3048m) |
| | Humidity - operating | 10%-80%, non-condensing |
| | Humidity - storage (with package) | 10%-90%, non-condensing |



Drive Bays and PCIe Slots

| | |
|----------|---|
| Bay 1 | 5.25", supports one of the following: HH optical, 9.5mm optical+3.5"/2.5" drive |
| Bay 2 | 5.25", supports one of the following: 3.5"/2.5" drive, tape drive |
| Bay 3 | Standard 3.5"/2.5" disk drive bay |
| Bay 4 | Standard 3.5"/2.5" disk drive bay |
| 5 -Slots | Four PCIe slots (top-down): |
| | Slot 1: PCIe 3.0 x16, full height, half length (near CPU) |
| | Slot 2: PCIe 2.0 x1, full height, half length |
| | Slot 3: PCIe 2.0 x16 (x4 elec), full height, half length |
| | Slot 4: PCI 2.3, full height, half length |

| Model | 70A4003S++ |
|-------------------|---|
| Product | ThinkServer TS140 |
| Region | EMEA |
| Machine Type | 70A4 |
| TopSeller | TopSeller |
| Processor | Pentium G3240 2C/3.1GHz/3MB/53W/DDR3-1333 |
| Memory | 1x4GB UDIMM DDR3-1600 ECC |
| RAID Controller | RAID 100 |
| Disk Bays | 4x3.5" DC |
| Storage | 2x1TB HDD 7.2K 3.5" SATA6Gbs |
| Optical | 9.5mm DVD±RW |
| Add-on NIC | None |
| Add-on Ports | None |
| System Management | ISM |
| Operating System | None |
| Warranty | 1-year |
| Power Supply | 280W 85% Fixed |
| Ann Date (mm/yy) | 03/15 |

