ThinkServer TS140 Platform Specifications

U2/5.5 U1/5.5 U2/5.5 U3

rear ports.

Supports one of the follwing:

Disk drive bays

Maximum internal

Network interfaces

Security features

Operating systems

storage

Svstems

supported

Base warranty

Power supply

Graphics

management

Optical drive

1 or 3-year limited onsite service with 9x5/NBD.

 NVIDIA Quadro NVS 300, PCIe adapter, 512MB NVIDIA Quadro K600, PCIe adapter, 1GB

Intel Standard Manageability on models with Core i3, Pentium, or Celeron processors. KVM is supported on models with Xeon E3-12x5 v3 processors

Microsoft Windows Server 2012 R2/2012/2008 R2. Windows Small Business

Note: VMware requires processors with Intel HD, add-on network adapters, and PCIe RAID adapters

• One fixed 280 watts, autosensing, 85%, 80 PLUS Bronze qualified • One fixed 450 watts, autosensing, 92%, 80 PLUS Platinum qualified 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

Also supports the following optional discrete graphics adapters:

Server 2011. Windows 8.1/8/7 (except Home edition). Red Hat Enterprise Linux

6.5/6.7/7/7.1. SUSE Linux Enterprise Server 11 SP4. VMware vSphere (ESXi) 5.1

Product Specifications Reference (PSREF)

| Components | Specification | Components | Specification | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------|---------------------------------------------------------|
| Dimensions | Tower or 4U rack. | Front ports | Two USB 3.0 (blue) | |
| | Height: 375 mm (14.76 in), width: 175 mm (6.89 in), depth: 431 mm (16.97 in) | | | HD Graphics models only), two USB 2.0, four |
| Weight | Maximum configuration: 28.66 lb (13kg) | Rear ports | USB 3.0 (blue), one serial (9-pin), o | one ethernet (RJ-45), three analog audio ports |
| Processor | Supports one of the following Intel processors (code name: Haswell): 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 | | (line-in, line-out, mic-in). Optional p | arallel 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 | |
| | Celeron: up to 2C/2.9GHz/2MB/53W/1333MHz | | Temperature - operating | 50 ° F to 95 ° F (10 ° C to 35 ° C) |
| Chipset | Intel C226 Platform Controller Hub (PCH) | Environmental | Temperature - storage (with package) | -40 o C to 70 o C |
| Memory DIMMs | 4 DIMM sockets, 2-channel capable. UDIMM, DDR3, up to 1600MHz | specification | Altitude - operating | Supported Altitude (unpressurized): 0-10000ft (0-3048m) |
| Memory capacity | 32GB | - | Humidity - operating | 10%~80%, non-condensing |
| Memory protection | | _ | Humidity - storage (with package) | 10%~90%, non-condensing |
| RAID controller | Supports one of the following onboard or PCIe RAID adapters • 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 | | | - 1 |

| | Supports one of the following onboard or PCIe RAID adapters | |
|---|-------------------------------------------------------------------------------------|-----|
| | • 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, | 4 |
| | optional key for RAID5. | L., |
| | RAID 0, 1, 5, 10 with RAID 700, PCIe adapter, 6Gb/s SAS/SATA | - |
| | Two external 5.25" bays, two internal 3.5" bays (see right). | 2 |
| | Up to one 9.5mm optical plus 4 3.5" or 2.5" disk drives. Supports internal RDX tape | |
| | drive, cosumes 5.25" bay, also support optional external USB RDX tape drive. | |
| | All disk drive bays are direct cabled, non-hot swap | 0 |
| | Up to 24TB with 7.2K SATA HDD, up to 16TB with 7.2K SAS HDD, up to 1.92TB | 3 |
| | with SATA SSD | |
| | Two 5.25" bays for optical. DVD-ROM or DVD±RW. Half-height or 9.5mm | |
| | One onboard gigabit ethernet, Intel I217, shared with AMT. Supports optional | |
| • | discrete network adapters via PCIe slots | 5 |
| | Power-on and administrator password. TPM (TCG 1.2-compliant). | 0 |
| | Optional padlock loop, Kensington cable lock | Λ |
| | Intel Active Management Technology 9 on models with Xeon processors. | т |
| | Intel Standard Manageability on models with Core i3, Pentium, or Celeron proces- | |
| | sors. KVM is supported on models with Xeon E3-12x5 v3 processors | |

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 | 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 | 70A50005++ |
|-------------------|---------------------------------------------|
| Product | ThinkServer TS140 |
| Region | EMEA |
| Machine Type | 70A5 |
| TopSeller | TopSeller |
| Processor | Xeon E3-1225 v3 4C/3.2GHz/8MB/84W/DDR3-1600 |
| Memory | 2x4GB UDIMM DDR3-1600 ECC |
| RAID Controller | RAID 100 |
| Disk Bays | 4x3.5" DC |
| Storage | 2x500GB HDD 7.2K 3.5" SATA6Gbs |
| Optical | 9.5mm DVD±RW |
| Add-on NIC | None |
| Add-on Ports | None |
| System Management | AMT |
| Operating System | 2012 Foundations |
| Warranty | 3-year |
| Power Supply | 450W 92% Fixed |
| Ann Date (mm/yy) | 09/13 |





