ThinkServer RS160 70TG0028EA

Region
EMEA

Machine Type
70TG

TopSeller
TopSeller

Processor
Xeon E3-1220 v6 4C/3.0GHz/8MB/72W/DDR4-2400

Memory
1x8GB UDIMM DDR4-2400 ECC

Storage Controller
RAID121i

Disk Bays
2x3.5" NHS

Disks
Open

Optical
None

Add-on NIC
None

Slots
None

TPM
TPM2.0

Operating System
None

Warranty
3-year

Power Supply
300W 85% Fixed

Ann Date (mm/yy)
06/17

Note:
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ThinkServer RS160 Platform Specifications

Components	Specification
Dimensions	1U rack. Height: 43.2 mm (1.7 in), width: 438.5 mm (17.26 in), depth: 393.7 mm (15.5 in)
Weight	Minimum configuration: 6.2 kg (13.67 lb), maximum: 7.6 kg (16.76 lb)
Processor	Supports one of the following Intel "Kaby Lake" processors: Xeon E3-1280 v6 – 4C/3.9GHz/8MB/72W/DDR4-2400 Xeon E3-1270 v6 – 4C/3.8GHz/8MB/72W/DDR4-2400 Xeon E3-1240 v6 – 4C/3.7GHz/8MB/72W/DDR4-2400 Xeon E3-1230 v6 – 4C/3.5GHz/8MB/72W/DDR4-2400 Xeon E3-1225 v6 – 4C/3.3GHz/8MB/73W/DDR4-2400 Xeon E3-1220 v6 – 4C/3GHz/8MB/72W/DDR4-2400 Core i3-7320 – 2C/4.1GHz/4MB/51W/DDR4-2400 Core i3-7300 – 2C/4GHz/4MB/51W/DDR4-2400 Core i3-7300T – 2C/3.5GHz/4MB/35W/DDR4-2400 Core i3-7100 – 2C/3.9GHz/3MB/51W/DDR4-2400 Core i3-7100T – 2C/3.4GHz/3MB/35W/DDR4-2400 Pentium G4620 – 2C/3.7GHz/3MB/51W/DDR4-2400 Pentium G4600 – 2C/3.6GHz/3MB/51W/DDR4-2400 Pentium G4600T – 2C/3GHz/3MB/35W/DDR4-2400 Pentium G4560 – 2C/3.5GHz/3MB/54W/DDR4-2400 Pentium G4560T – 2C/2.9GHz/3MB/35W/DDR4-2400 Celeron G3950 – 2C/3GHz/2MB/51W/DDR4-2133 Celeron G3930 – 2C/2.9GHz/2MB/51W/DDR4-2133 Celeron G3930T – 2C/2.7GHz/2MB/35W/DDR4-2133 Supports one of the following Intel "Skylake" processors: Xeon E3-1280 v5 – 4C/3.7GHz/8MB/80W/DDR4-2133 Xeon E3-1270 v5 – 4C/3.6GHz/8MB/80W/DDR4-2133 Xeon E3-1240 v5 – 4C/3.5GHz/8MB/80W/DDR4-2133 Xeon E3-1230 v5 – 4C/3.4GHz/8MB/80W/DDR4-2133 Xeon E3-1220 v5 – 4C/3GHz/8MB/80W/DDR4-2133 Xeon E3-1260L v5 – 4C/2.9GHz/8MB/45W/DDR4-2133 Xeon E3-1240L v5 – 4C/2.1GHz/8MB/25W/DDR4-2133 Xeon E3-1225 v5 – 4C/3.3GHz/8MB/80W/DDR4-2133 Core i3-6320 – 2C/3.9GHz/4MB/51W/DDR4-2133 Core i3-6300 – 2C/3.8GHz/4MB/51W/DDR4-2133 Core i3-6100 – 2C/3.7GHz/3MB/51W/DDR4-2133 Pentium G4520 – 2C/3.6GHz/3MB/51W/DDR4-2133 Pentium G4500 – 2C/3.5GHz/3MB/51W/DDR4-2133 Pentium G4400 – 2C/3.3GHz/3MB/54W/DDR4-2133 Celeron G3920 – 2C/2.9GHz/2MB/51W/DDR4-2133 Celeron G3900 – 2C/2.8GHz/2MB/51W/DDR4-2133 Celeron G3900T – 2C/2.6GHz/2MB/35W/DDR4-2133
Chipset	Intel C232 Platform Controller Hub (PCH)
Memory DIMMs	4 DIMM sockets with 2-channels. UDIMM. DDR4-2133 or 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; Compatible models: 2x3.5”, 4x2.5” RAID controller: RAID520i PCIe; Drive type: 12Gbs SAS/SATA; RAID support: 0/1/10, 5 with optional key; Compatible models: 2x3.5”, 4x2.5” RAID controller: RAID720i PCIe; Drive type: 12Gbs SAS/SATA; RAID support: 0/1/10/5, 6 with optional cache; Compatible models: 2x3.5”, 4x2.5” Optional cache for RAID720i: 1GB memory. 1GB, 2GB, or 4GB flash with super capacitor.
Disk drive bays	Supports two 3.5" or four 2.5" disk drive bays. Non-hot swap. Cables are connected to onboard SATA connectors or PCIe RAID controller. Also supports one M.2 SATA SSD
Supporting storage	3.5" HDD, 7.2K SATA6Gbs – 1TB/2TB/4TB/6TB/8TB/10TB/12TB 3.5" HDD, 7.2K SAS12Gbs – 1TB/2TB/4TB/6TB/8TB/10TB 3.5" SSD, SATA6Gbs (2.5" SSD with 3.5" tray) – 240GB/480GB/960GB 2.5" HDD, 7.2K SATA6Gbs – 1TB/2TB 2.5" HDD, 10K SAS12Gbs – 300GB/600GB/900GB/1.2TB/2.4TB 2.5" HDD, 15K SAS12Gbs – 900GB 2.5" SSD, SATA6Gbs – 120GB/240GB/480GB/960GB M.2 SATA SSD – 32GB/128GB

Components	Specification
Optical drive	Optional one 9.5mm optical. DVD-ROM or DVD±RW
Network interfaces	One dedicated management port, two Gigabit Ethernet ports. Supports optional discrete network adapters via riser card
Security features	Power-on and administrator password. Optional TPM, TCG 1.2 or 2.0 compliant.
Systems management	UEFI. Onboard Aspeed AST2400 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC). Control Panel LEDs shows the status of power, ID, disk drives, network, system. Supports the following management software: EasyStartup, Power Planner. On November 2016, EasyUpdate, Lenovo ThinkServer Diagnostics Standalone, ToolsCenter Suite CLI inventory module on ThinkServer, and Lenovo xClarity Adminstrator will be available
Operating systems	Microsoft Windows Server 2016 (Standard and Essentials)/2012 R2/2012. Windows 10 Pro. Red Hat Enterprise Linux 6.7/6.8/7.2. SUSE Linux Enterprise Server 11/12. VMware vSphere (ESXi) 6.0Ub/U2
Base warranty	1 or 3-year limited onsite service with 9x5/NBD
Power supply	One fixed 300 watts power supply, Non-hot swap. 80 PLUS Gold qualified
Graphics	Onboard Aspeed AST2400
Front ports	Two USB 2.0
Rear ports	One VGA, four USB 3.0, one RJ-45 (dedicated mgmt), two ethernet, one serial (9-pin)
Cooling	3 fans for processor, PCIe slot, and disk drives
Noise emissions	Operating: < 5.9 Bels. Idle: < 5.2 Bels (Maximum configuration)
Environmental specification	Temperature - operating: 50 °F to 95 °F (10 °C to 35 °C) Temperature - non operating (with package): -40 °C to 60 °C Altitude - operating: (Unpressurized): 0-10000ft (0-3048m) Humidity - operating: 8%~80%, non-condensing Humidity - storage (with package): 10%~90%, non-condensing

Expansion slots and disk bays

Supports one PCIe slot via optional riser card, PCIe 3.0 x16, half length, half height

Core options for ThinkServer RS160 (partial)

ThinkServer 8GB 2RX8 PC4-2133-E CL15 DDR4-2133 ECC-UDIMM	4X70G88316
ThinkServer 16GB 2RX8 PC4-2133-E CL15 DDR4-2133 ECC-UDIMM	4X70G88317
ThinkServer 3.5" 8TB 7.2K Enterprise SATA 6Gbps 512e Hard Drive for RS-Series	4XB0K12297
ThinkServer 2.5" 1.2TB 10K Enterprise SAS 12Gbps Hard Drive for RS-Series	4XB0K12306
ThinkServer 2.5" 2TB 7.2K Enterprise SATA 6Gbps Hard Drive for RS-Series	4XB0K12302
ThinkServer 2.5" 480GB S3510 Enterprise Entry SATA 6Gbps SSD for RS-Series	4XB0K12321
ThinkServer M.2 32GB Value Read-Optimized SATA 6Gbps Solid State Drive	4XB0K12310
ThinkServer RAID 520i RAID 5 Upgrade	4XC0G88841
ThinkServer RS160 Slim SATA DVD-RW Optical Disk Drive	4XA0G88613
Lenovo ThinkServer Gen 5 Trusted Platform Module v1.2 (Worldwide except China)	4XF0G45868

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