# 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 | Up to one **Intel Xeon E3-1200 v5**, **Core i3**, **Pentium**, **or Celeron** family processor. |

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|---|---|
| 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 |

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|---|---|
| Chipset | Intel C232 Platform Controller Hub (PCH) |
| Memory DIMMs | 4 DIMM sockets with 2 channels, 2 DIMMs per channel. **UDIMM**. DDR4-2133 |
| Memory capacity | 64GB (16GB x 4) |
| Memory protection | ECC |

RAID controller

| RAID controller | Drive type | RAID support | Compatible models |
|---|---|---|---|
| Onboard RAID121i | 6Gbs SATA | 0/1/5/10 | 2x3.5”, 4x2.5” |
| RAID520i PCIe | 12Gbs SAS/SATA | 0/1/10,<br>5 with optional key | 2x3.5”, 4x2.5” |
| RAID720i PCIe | 12Gbs SAS/SATA | 0/1/10/5,<br>6 with optional cache | 2x3.5”, 4x2.5” |

Optional cache for RAID720i: 1GB memory. 1GB, 2GB, or 4GB flash with super capacitor.

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| 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.<br>Also supports one M.2 SATA SSD |

Supporting storage

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|---|---|
| 3.5" HDD, 7.2K SATA6Gbs | 1TB/2TB/4TB/6TB/8TB |
| 3.5" HDD, 7.2K SAS12Gbs | 1TB/2TB/4TB/6TB/8TB |
| 2.5" HDD, 7.2K SATA6Gbs | 1TB/2TB |
| 2.5" HDD, 10K SAS12Gbs | 300GB/600GB/900GB/1.2TB |
| 2.5" SSD, SATA6Gbs | 120GB/240GB/480GB/960GB |
| M.2 SATA SSD | 32GB/128GB |

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| Optical drive | Optional one 9.5mm optical. DVD-ROM or DVD±RW |
| Network interfaces | One dedicated management port, two Gigabit Ethernet ports.<br>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,<br>IPMI 2.0-compliant baseboard management controller (BMC).<br>Control Panel LEDs shows the status of power, ID, disk drives, network, system.<br>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 |

| Components | Specification |
|---|---|
| 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

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| 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)**

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|---|---|
| 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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| Model | 70TGR003EA |
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| Product | ThinkServer RS160 |
| Region | EMEA |
| Machine Type | 70TG |
| TopSeller | TopSeller |
| Processor | Xeon E3-1230 v5 4C/3.4GHz/8MB/80W/DDR4-2133 |
| Memory | 1x8GB UDIMM DDR4-2133 ECC |
| RAID Controller | RAID 121i |
| Disk Bays | 2x3.5" NHS |
| Storage | Open |
| Optical | None |
| Add-on NIC | None |
| Slots | 1xHHHL |
| TPM | TPM |
| Operating System | None |
| Warranty | 3-year |
| Power Supply | 300W 85% Fixed |
| Ann Date (mm/yy) | 09/16 |


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