ThinkServer RD550 Platform Specifications

| Components | Specification | C | | | | | | |
|-----------------------|--|---------------------------------------|--|--|--|--|--|--|
| Dimensions | 1U rack. Height: 43 mm (1.7 in), width: 482 mm (19 in), depth: 780 mm (30.7 in) | О | | | | | | |
| Weight | Minimum configuration: 13.5 kg (29.76 lb), maximum: 21 kg (46.3 lb) | | | | | | | |
| | Up to two 145W Intel Xeon E5-2600 v3 family (code name: Haswell) processors | | | | | | | |
| | with 18 cores up to 2.3GHz, 16 cores up to 2.3GHz, 14 cores up to 2.6GHz, 12 | Ва | | | | | | |
| Processor | cores up to 2.6GHz, 10 cores up to 2.6GHz, 8 cores up to 3.2GHz, 6 cores up | | | | | | | |
| | to 3.4GHz, 4 cores up to 3.5GHz. Two QPI link up to 9.6 GT/s. Up to 2133MHz | | | | | | | |
| Chipset | memory speed. Up to 45MB cache Intel C610 Series Chipset | | | | | | | |
| Onipset | 04 50 40 40 50 40 40 40 40 40 40 40 40 40 40 40 40 40 | | | | | | | |
| Memory DIMMs | processor). RDIMM and LRDIMM (cannot be intermixed), DDR4, LRDIMM up to | Po | | | | | | |
| INICITIOTY DIIVIIVIS | DDR4-2133, RDIMM up to DDR4-2400 | | | | | | | |
| Memory capacity | 384GB (RDIMM, 16GB x 24)/768GB (LRDIMM, 32GB x 24) | | | | | | | |
| | ECC, memory mirroring, lockstep, and memory sparing | | | | | | | |
| AnyRAID support | RAID 0, 1, 10 with AnyRAID 110i. 6Gb/s SATA, optional key for RAID 5. | | | | | | | |
| | RAID 0, 1, 10 with AnyRAID 510i, 6Gb/s SAS/SATA, optional key for RAID 5/50. | | | | | | | |
| | RAID 0, 1, 10, 5, 50, 6, 60 with AnyRAID 720i/720ix. 12Gb/s SAS/SATA. 720i needs | | | | | | | |
| | cache for RAID 6/60 support. 720ix must have cache. | | | | | | | |
| | Optional cache for 720i/720ix: 1GB read-only memory. 1GB/2GB/4GB flash with | | | | | | | |
| | super capacitor. Flash options include CacheVault, CacheCade Pro, and FastPath Note: At least 6 disk drives is required for RAID 50 and 60. | | | | | | | |
| | Up to 4 3.5" or 12 2.5" hot-swap disk bays on front. | 1 | | | | | | |
| | Up to 2 of 12 2.5" bays can support easy-swap PCIe SSD via optional Anybay kit | | | | | | | |
| | (consumes one PCle slot). | | | | | | | |
| | | | | | | | | |
| Disk drive bays | Up to 2 M.2 SSD drives via optional M.2 module. | | | | | | | |
| | Supports external RDX tape drive via USB. | | | | | | | |
| | Disk bay AnyRAID requirements and optional drives supported | Fy | | | | | | |
| | configuration RAID110i RAID510i RAID720ix | _^ | | | | | | |
| | 4x3.5" (optional rear bay/M.2) (optional rear bay/M.2) (optional rear bay/M.2) | | | | | | | |
| | 12x2.5" • (optional Anybay/M.2) | 3. | | | | | | |
| | Note: 1. Rear disk drive and M.2 SSD can not be supported simultaneously. Only one can be selected per | | | | | | | |
| | system. 2. On AnyRAID 110i and 8x2.5" model, 6 of 8 drives can be configurated as RAID | | | | | | | |
| | 3.5" HDD up to 12TB (SATA)/8TB(SAS). 2.5" HDD up to 1.8TB (SAS)/2TB (SATA). | SI SI SI SI SI SI SI SI | | | | | | |
| Internal disk drive | 2.5" SSD up to 1.6TB (SATA/SAS). Easy-swap PCIe SSD up to 1.92TB. | | | | | | | |
| | PCIe SSD adapter up to 3.84TB. M.2 SSD up to 120GB. 2.5" SSD and HDD are compatible with 3.5" bay | | | | | | | |
| SD module | Up to 2 SDHC flash cards via optional SD module, 8GB or 32GB each | 1. | | | | | | |
| Optical drive | Optional one 9.5mm optical drive on 3.5" model. DVD-ROM or DVD±RW | 2. | | | | | | |
| ' | One dedicated management port. One (3.5" model) or two (2.5" model) AnyFabric | 1 | | | | | | |
| Network interfaces | slots for customized LOM. Optional discrete network adapters via PCIe slots | | | | | | | |
| Security features | Device on and administrator recovered Optional TDM (TOO 1.0 compliant) | | | | | | | |
| , | Supports ThinkServer System Manager (TSM), optional TSM Premium. | S | | | | | | |
| | UEFI. Onboard Aspeed AST2400 graphics/management processor, | | | | | | | |
| Systems management | 1PMI 2.0-compliant baseboard management controller (BMC). | | | | | | | |
| | Control Panel LEDs shows the status of power, ID, network, system. | | | | | | | |
| | Supports ThinkServer management software: Diagnostics, Deployment Manager, | | | | | | | |
| | Energy Manager, System Manager, Partner Pack for VMware vCenter and Microsoft | | | | | | | |
| | System Center Operations Manager, Power Planner | | | | | | | |

| | Components | Specification | | | | | | | |
|----------|-----------------------------|--|--|--|--------------------------------------|--|---------------|--|--|
| | Operating systems | Microsoft Windows Server 2016/2012 R2/2012/2008 R2 Windows Small | | | | | | | |
| | | 3-year limited onsite service with 9x5/NBD. Some parts are Customer Replaceable Units | | | | | | | |
| | | Up to two l and 1100V Titanium q | N/750W/1100V qualified. 750W | V power supplies. V is 80 PLUS Platii | 550W num or | | | | |
| | Power supply | Disk bay configuration | 550W | PS | U requirements 750W | 1100W | | | |
| _ | | 4x3.5" 12x2.5" | • | | • | • | | | |
| \dashv | | Note: 750W Titanium is 200V - 240V, others are 110V - 240V. | | | | | | | |
| | Graphics | Onboard Aspeed AST2400 with 16MB memory, one DisplayPort on front, one DisplayPort on rear. Maximum resolution: 1920x1200@60Hz | | | | | | | |
| s | | (Only 3.5" model) Two USB 2.0, one DisplayPort | | | | | | | |
| 1 | Rear ports | One DisplayPort, two USB 3.0, one RJ-45 (dedicate mgmt), one serial (9-pin) | | | | | | | |
| | Cooling | 8 (7+1, dual processors) or 6 (5+1, single processor), hot-swap | | | | | | | |
| | Noise emissions | Operating: < 6.5 Bels. Idle: < 6 Bels (Maximum configuration) | | | | | | | |
| | Environmental specification | Temperature Altitude - ope Humidity - op Humidity - sto | - non operating (no packag - non operating (with pack rating | age) | 8%~90%, non-con- 8%~90%, non-con- | -10000ft (0-3048m) densing densing | B cores CPUno | | |

Expansion slots

3.5" model



AnyFabric slot 1 (Network adapter is optional) Optional 2 x 2.5" rear bays

Slot 1 (riser card 1) PCle 3.0 x 16, low-profile, half length
Slot 2 (riser card 2) PCle 3.0 x 16, low-profile, half length, requires 2nd riser card and 2nd CPU

2.5" model



AnyFabric slot 1 (Network adapter is optional) AnyFabric slot 2 (Network adapter is optional)

Slot 1 (riser card 1) PCle 3.0 x 16 (x8 wired), low-profile, half length
Slot 2 (riser card 1) PCle 3.0 x 16 (x8 wired), low-profile, half length
Slot 3 (riser card 2) PCle 3.0 x 16, low-profile, half length, requires 2nd riser card and 2nd CPU