Lenovo ThinkServer RD550

Generous performance and capacity in a slim form factor

Extremely Versatile Storage

With a cleverly engineered design, the Lenovo ThinkServer RD550 offers generous storage density and I/O connectivity—giving you the performance and capacity of a 2U system in a slim 1U design. The RD550 offers a total of up to 12 front drive bays, which can be used for data storage or accelerated performance. Two additional enterprise-class M.2 solid-state drives (SSDs) are available as an option for secure booting, as well as SD card options for hypervisor booting. Industry-unique Lenovo AnyBay design allows multiple storage types in the same drive bay, including front-accessible NVMe PCIe SSDs for ultimate performance.

Extra-Reliable Performance

Lenovo servers have consistently achieved the highest reliability of all x86 servers in the industry. With its 22-core Intel® Xeon® processors E5-2600 v4 series, the RD550 has a dynamic environmental design and can run at 45ºC continuously—with no impact on reliability. Other high-reliability features include ECC memory, hot-swap hard-disk drive and SSD capability, and hot-swap and redundant power and cooling.

Simplified Management

Centrally automate discovery, inventory tracking, real-time monitoring, fault detection, and alert handling over the lifecycle of your servers with Lenovo XClarity, a best-in-class enterprise management tool. A mobile option enables you to securely monitor your systems from Android and iOS devices.

Additionally, the RD550 offers a suite of intuitive administration utilities for configuration and deployment. Lenovo XClarity Energy Manager is available for optimizing your server power consumption.

Highly Flexible I/O

The RD550 supports up to 5 I/O slots for customer choice and flexibility. Leveraging the unique Lenovo AnyFabric design, the RD550 can house up to eight 10Gb Ethernet ports—without consuming PCIe slots. This compact server even supports an option for four 10Gb Ethernet ports with two 16Gb Fibre Channel ports at the same time, without consuming any PCIe slots—an industry first.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

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Specifications

Form Factor/Height	1U Rack
Processor (max)**/Cache** (max)	Up to two 22-core Intel® Xeon® processors E5-2600 v4 series/Up to 55MB per processor
Memory (max)	Up to 1.5TB DDR4 – 2400MHz via 24 slots (RDIMM/LRDIMM)
Media Bays	1 x slim optical (in 3.5" configuration)
Disk Bays	Up to 12 x 2.5" front or up to 4 x 3.5" front + up to 2 x 2.5" rear (rear drives SATA only)
Maximum Internal Storage	Up to 36TB 3.5" chassis or up to 24TB 2.5" chassis; M.2 SSD and SD card options available
RAID Support	ThinkServer RAID 110i AnyRAID (0/1/10, optional 5); ThinkServer RAID 510i AnyRAID, 520i PCIe RAID Adapter (0/1/10, optional 5/50); ThinkServer RAID 720i, 720ix, 720i PCIe AnyRAID Adapter (0/1/10/5/50/6/60)
Power Supply	Redundant hot-swap 550W/750W/1100W (80 PLUS Platinum), 110V to 240V AC input, HVDC ready 750W (80 PLUS Titanium), 200V to 240V AC input
Network Interface	1 x Integrated Gb Ethernet (Dedicated mgmt port); Up to 2 x AnyFabric slots with choice of Ethernet NIC, Fibre Channel HBA or CNA
Expansion Slots	3.5" chassis: CPU1: 1 x PCIe 3.0 HH/HL x16 +1x AnyFabric; CPU2: CPU1 plus 1xPCIe 3.0 HH/HL x16 2.5" chassis: CPU1: 2 x PCIe 3.0 HH/HL x16 (x8 electrical) + 2x AnyFabric; CPU2: CPU1 plus 1xPCIe 3.0 HH/HL x16
USB Ports/VGA Ports	2x USB 2.0 front, 2x USB 3.0 rear, /1 front, 1 rear
Energy Efficiency	Up to 45ºC operating temperature (ASHRAE 4 compliant); 6 Redundant hot-swap fans with 1 processor or 8 redundant hot-swap fans with 2 processors
Systems Management	Lenovo XClarity Administrator with mobile option; Lenovo XClarity Pro software bundle; ThinkServer System Manager; ThinkServer System Manager Premium; Lenovo XClarity Energy Manager
Operating Systems Supported	Microsoft Windows Server, Hyper-V; SUSE Linux Enterprise Server; Red Hat Enterprise Linux; VMware vSphere ESXi

Options

ThinkServer 16 GB DDR4 - 2400 RDIMM 4X70G88319 Boost the capabilities of your ThinkServer system and increase performance.	Lenovo ThinkServer RAID 720i 2 GB Modular Flash and Supercapacitor Upgrade 4XB0F28697 Cache for faster performance, with storage tiering and SSD array acceleration	Lenovo ThinkServer X710-DA2 AnyFabric 10 Gb 2 port Ethernet Adapter by Intel 4XC0G88847 Leverage the bandwidth potential of your network and scale your I/O.

For More Information

To learn more about the Lenovo ThinkServer RD550, contact your Lenovo Business Partner or visit
lenovo.com/systems/servers

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