ThinkSystem SR570
Memory-optimized, efficient 1U rack server

Powerful and Affordable

The 1U Lenovo ThinkSystem SR570 rack server is an excellent fit for Big Data, web serving, and infrastructure scale-out. It's designed for rack environments that require peak memory and two-socket performance, flexible storage, outstanding value, and intuitive management.

It can accelerate compute performance across a wide range of applications with up to two second-generation Intel® Xeon® Scalable Family processors and offers 86% more cores than the previous generation.

The SR570's faster 2933MHz TruDDR4 memory coupled with Intel® Optane™ DC Persistent Memory capacity power larger workloads,* offering as much as 1TB of memory capacity, 33% more than the ThinkSystem SR530.

Versatile

Adapt to changing workload requirements and boost I/O throughput with multiple NIC form factors, including LOM, ML2, and 3x PCIe 3.0 slots, as well as replaceable I/O riser cards for varied adapter slot configurations.

The SR570 supports a choice of up to 10 hot-swap 2.5″ or 4 hot-swap or simple-swap 3.5″ drive bays. These drive bays support SAS and SATA HDDs and SSDs with up to 12Gb SAS throughput.

Four of the 2.5″ bays can be AnyBay, capable of supporting not only SAS/SATA drives, but also direct-connect NVMe drives for the ultimate in storage performance. The SR570 also supports one or two M.2 drives for faster, more secure OS boot.

Reliable and Secure

Lenovo servers have been the most reliable in the industry for several years. They were ranked #1 yet again in the latest ITIC survey of x86 server reliability.‡ The SR570 is no exception, including many features that contribute to the reliability and security of the server and your all-important data. As a result, Lenovo's servers are also #1 in customer satisfaction among x86 servers.**

These features result in a powerful, highly adaptable, cost-efficient server with a low TCO.

ThinkShield is a comprehensive end-to-end approach to security that begins with development and continues through supply chain and the full lifecycle of the device. From the data center to the edge of the network our priority is protecting your business with each product.

Lenovo XClarity Controller is the embedded management engine in all ThinkSystem servers that is designed to standardize, simplify, and automate foundation server management tasks.
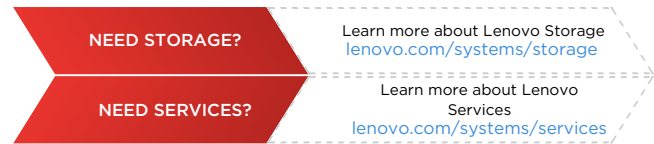
ThinkSystem

Lenovo XClarity Administrator is a virtualized application that centrally manages ThinkSystem servers, storage, and networking, which can reduce provisioning time up to 95% versus manual operation. Running XClarity Integrator helps you streamline IT management, speed provisioning, and contain costs by seamlessly integrating XClarity into an existing IT environment.

Specifications

Form Factor	1U
Processor	Up to 2 second-generation Intel® Xeon® Platinum 150W, up to 26 cores per CPU
Memory	Up to 1TB of 2933MHz TruDDR4 in 16 slots, Intel® Optane™ DC Persistent Memory
Expansion	Up to 3 PCIe 3.0
Drive Bays	Up to 10x 2.5″ (including optional 4x direct-connect AnyBay) or up to 4x 3.5″
Internal Storage	Up to: 48TB (3.5″ SAS/SATA HDD); 30.72TB (3.5″ SATA SSD); 24TB (2.5″ SAS/SATA HDD); 76.8TB (2.5″ SSD); 30.72TB (2.5″ NVMe); 1x or 2x M.2
Network Interface	2 GbE ports standard; LOM interface standard; optional ML2, PCIe
NIC Ports	2x GbE standard; 1x GbE dedicated management standard
Power	Up to 2x hot-swap/redundant 550W/750W Platinum, 750W Titanium
High-Availability Features	Hot-swap HDDs/SSDs/NVMe, hot-swap PSUs and fans, light path diagnostics, PFA for all major components, ASHRAE A4 support (with limits), optional XClarity Pro with Call Home feature
RAID Support	HW RAID 0, 1, 5 standard on hot-swap models; SW RAID 0, 1, 5 on simple-swap 3.5″ models
Security	Lenovo ThinkShield, locking bezel; locking top cover; TPM 2.1 standard; optional TCM (China only)
Management	XClarity Administrator; XClarity Controller (embedded hardware); optional XClarity Pro
OS Support	Microsoft, SUSE, Red Hat, VMware. Visit lenovopress.com/osig for details.
Limited Warranty	1-year and 3-year customer replaceable unit and onsite service, next business day 9x5

For More Information

To learn more about the ThinkSystem SR570 rack server, contact your Lenovo representative or Business Partner or visit www.lenovo.com/thinksystem. For detailed specifications, consult the SR570 Product Guide.

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* Intel internal testing, August 2018. ‡ ITIC 2018 Global Reliability Report. ** TBR x86-based Server Report 2018.

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