

Lenovo ThinkSystem SR650

High-performance scalable server



For Compute-Intensive Workloads

For medium to large enterprises, and managed and cloud service providers, Lenovo ThinkSystem SR650 is the optimum 2U, two-socket server—the most widely used server type worldwide. It's engineered to deliver high performance with 205W CPUs, low-latency NVMe drives, and high-power GPUs.

With Lenovo's history of reliability, the highly flexible and configurable SR650 is the ideal platform for hyperconverged infrastructure (HCI) or software-defined storage (SDS). It provides a solid foundation for: 1) transforming physical resources into services, using validated designs for hybrid cloud; 2) performing analytics on streaming data, using validated designs for Big Data; and 3) increasing productivity of virtualized transactional systems, using validated designs for OLTP databases.

Versatile and Scalable

ThinkSystem SR650 incorporates up to two powerful Intel® Xeon® processor Scalable family CPUs, with 27 percent more cores and twice the memory capacity of the previous generation server*. It supports two 300W high-performance GPUs and ML2 NIC adapters with shared management. Unique Lenovo AnyBay technology provides the flexibility to mix-and-match SAS/SATA HDDs/SSDs and NVMe SSDs in the same drive bays. Four direct-connect NVMe ports on the motherboard provide ultra-fast read/writes with NVMe drives and reduce costs by eliminating PCIe switch adapters. Plus, storage can be tiered for greater application performance, to provide the most cost-effective solution. Optional mirrored M.2 drives ensure reliability and quick OS initialization. SR650 also features 80 PLUS Platinum and Titanium PSUs, as well as continuous operation at 45°C, to reduce energy costs.

Easily Managed

Lenovo XClarity Controller is an all-new hardware embedded management engine common in every ThinkSystem server. XClarity Controller features an uncluttered graphical user interface, industry standard Redfish-compliant REST APIs, and enables booting in half the time of prior generation servers, with up to 6x faster firmware updates.

Lenovo XClarity Administrator is a virtualized application that centrally manages ThinkSystem servers, storage, and networking. Via reusable patterns and policies, it ramps up and scales infrastructure provisioning and maintenance. It serves as a central integration point to extend your data center management processes to physical IT. Running XClarity Integrators in external IT applications, or integrating through REST APIs, helps you further speed services provisioning, streamline IT management, and contain costs.

Lenovo servers continue to be the industry's #1 most reliable[†], with the industry's highest customer satisfaction[‡] rating.

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

PN	Description	Qty
7X06A03FSG	SR650, Xeon Gold 5115 10C 2.4GHz, 1x16GB (2Rx8 1.2V) RDIMM, 1x2.5 SATA/SAS 8-Bay, 530-8i PCIe, 1x750W, 1xToolless Slide Rail	1
7X77A01302	ThinkSystem 16GB TruDDR4 2666 MHz (1Rx4 1.2V) RDIMM	3
7XH7A06254	ThinkSystem SR550/SR650 2.5 SATA/SAS 8-Bay Backplane Kit	1
7XB7A00027	ThinkSystem 2.5 1.2TB 10K SAS 12Gb Hot Swap 512n HDD	2
7Y37A01085	ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter	1
7N67A00883	ThinkSystem 750W(230/115V) Platinum Hot-Swap Power Supply	1
39Y7917	European 10A line C13 to CEE 7/7 (2.8M)	2

Visit [Options](#) for more information.

For More Information

To learn more about the Lenovo ThinkSystem SR650, contact your Lenovo representative or Business Partner or visit www.lenovo.com/thinksystem. For detailed specs, consult the [SR650 Product Guide](#).

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