Introducing ThinkSystem SR450 V4: Right-Sized Performance for Everyday Infrastructure

Article

Server refreshes rarely start with a request for maximum expansion. More often, organizations need a dependable server for business applications, virtual machines, file services, backups, and infrastructure roles that keep daily operations moving. That is the role of the new Lenovo ThinkSystem SR450 V4.

The SR450 V4 is a 2U, single-socket rack server designed for organizations that need current-generation performance without paying for capabilities their workloads will not use. It combines Intel Xeon 6 processing, fast storage options, PCIe Gen5 connectivity, and XClarity One management in a platform sized for mainstream business infrastructure.



Figure 1. Lenovo ThinkSystem SR450 V4

Launching at Microsoft Ignite: Lenovo will introduce the ThinkSystem SR450 V4 at Microsoft Ignite 2026, where the message fits naturally: many Microsoft environments need a well-supported, practical on-premises platform for Windows Server, Hyper-V, line-of-business applications, SQL Server workloads, file services, and backup.

Built for cornerstone workloads

The SR450 V4 supports one Intel Xeon 6 6500P or 6700P series processor, with up to 32 cores and up to 250W TDP. It provides the compute capacity needed for application servers, moderate virtual-machine estates, databases, and infrastructure services without adding the cost and management overhead of a second processor. This balance of capability and simplicity makes the SR450 V4 especially well suited to organizations outside the Global 1000.

Memory capacity matters just as much as processor performance in virtualized and database environments. The SR450 V4 supports up to eight Lenovo TruDDR5 RDIMMs, delivering up to 512GB of DDR5 memory at up to 6400 MT/s. In practical terms, that gives IT teams room to run core services and virtual machines while maintaining responsive performance.

Storage flexibility without unnecessary complexity

Storage needs can vary widely across business workloads. A branch office might prioritize capacity for file sharing and backup. A business application may benefit more from fast NVMe storage.

The SR450 V4 provides options for both approaches:

- Up to eight 3.5-inch SAS or SATA hot-swap drives for capacity-focused configurations
- Up to eight 2.5-inch SAS, SATA, or NVMe hot-swap drives for performance-focused deployments
- Up to two rear hot-swap M.2 SATA or NVMe boot drives with RAID support, keeping operating-system storage separate from application data

That flexibility lets you configure the system around the actual workload rather than forcing a single storage design across every deployment.



Figure 2. SR450 V4 with 8x 3.5-inch hot-swap drive bays

Expansion where it has practical value

The SR450 V4 includes three rear PCIe Gen5 slots and an OCP 3.0 x8 slot for network and adapter expansion. PCIe Gen5 offers the bandwidth needed for current networking, storage, and I/O adapters, while the OCP slot provides a dedicated path for network connectivity.

Lenovo integrated these slots directly into the system design, eliminating the need for a separate riser. This creates a more economical platform by reducing component count and system complexity, removing a potential point of failure while retaining the expansion many mainstream deployments require.

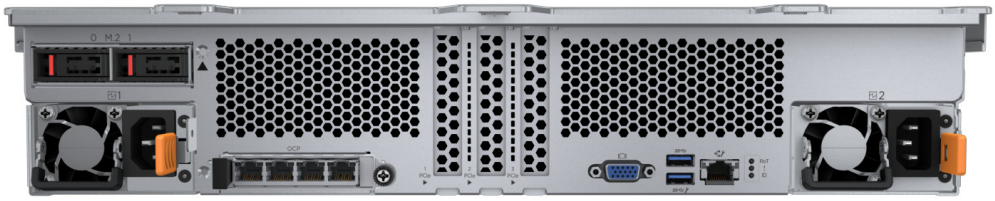


Figure 3. SR450 V4 rear view with three PCIe Gen5 slots and an OCP slot

Designed to be managed, not just deployed

A server refresh should simplify operations over its full lifecycle. The SR450 V4 includes Lenovo XClarity Controller, based on OpenBMC, along with Redfish support and OpenEDK-based UEFI. It shares this management foundation with our other ThinkSystem V4 systems, giving customers consistent management experience across the portfolio. These capabilities help IT teams and managed service providers monitor, configure, and automate server operations using established management tools and standards.

The platform also offers redundant hot-swap fans, dual redundant AC power supplies, and a dedicated 1GbE management port to support dependable day-to-day operations.

An economical building-block system

For organizations modernizing everyday infrastructure, the ThinkSystem SR450 V4 delivers the compute, memory, storage, I/O, and management capabilities that core business workloads need in a 2U rack server built for practical deployment and cost discipline.

More information

For more information, see the following resources:

- ThinkSystem SR450 V4 Product Page
- ThinkSystem SR450 V4 Datasheet
- ThinkSystem SR450 V4 Product Guide
- ThinkSystem SR450 V4 3D Tour

Author

Serban Militaru is a Senior Product Marketing Manager for the Tower, Edge, and Multi-Node Servers business at Lenovo. He is dedicated to understanding customer needs and leveraging technology to address them effectively. Serban is based in Romania and graduated from the Bucharest Academy of Economic Studies.

Related product families

Product families related to this document are the following:

- ThinkSystem SR450 V4 Server

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