Lenovo ThinkSystem SR755 V5

Maximize AI and Enterprise Workload Performance



Maximize Agentic AI Performance

Agentic AI's evolution means new infrastructure requirements, with increased demands for concurrency and orchestration complexity. The Lenovo ThinkSystem SR755 V5 combines an AMD EPYC™ 9006 Series processor with 16-channel DDR5 memory, PCIe Gen6 expansion, and E3.S storage support in a highly expandable 2U platform. Designed to deliver enterprise-class compute density, high memory bandwidth and I/O capacity, in a streamlined architecture, it enables customers to maximize Agentic AI performance while simplifying deployment and operations.

The server provides the compute, memory, and I/O resources needed to support demanding applications in existing data center environments. Its combination of high core density, 16-channel memory architecture, and PCIe Gen6 expandability achieves exceptional performance.

Enterprise-Class Performance with Air-Cooled Simplicity

Designed for customers seeking to maximize performance without requiring extensive facility upgrades, the SR755 V5 enables organizations to run modern workloads within existing data center environments.

Leveraging advanced air-cooling and Lenovo Neptune™ thermal innovations, it delivers enterprise-class performance while simplifying deployment, reducing operational complexity, and minimizing infrastructure changes.

By combining the performance advantages of the 6th Generation AMD EPYC SP7 processor with operational simplicity, it provides an ideal foundation for organizations looking to modernize infrastructure, accelerate workload deployment, and reduce complexity without sacrificing performance or scalability.

Security Built for Modern Infrastructure

The ThinkSystem SR755 V5 is designed with a multilayered security architecture that helps protect data, firmware, and system integrity across AI, analytics, and enterprise workloads. Support for FIPS 140-3, NIST SP800-193 Platform Firmware Resiliency (PFR), Post-Quantum Cryptography (PQC) readiness through XCC4, memory encryption technologies, and TDISP-enabled CPU-to-I/O security helps organizations strengthen cyber resilience while preparing for future security requirements.

AI-Native with Accelerator Support

As AI adoption expands across enterprise environments, organizations require a balanced combination of compute performance, accelerator support, memory bandwidth, and expansion flexibility. The SR755 V5 delivers an AI-ready foundation for inferencing, analytics, and AI-enabled enterprise applications, while providing the flexibility to adapt as workload requirements evolve.

Designed to support accelerator-enabled environments, the server supports up to two double-width (DW) GPUs or two single-width (SW) GPUs, enabling customers to scale AI inferencing, machine learning, and data processing workloads while maintaining the efficiency and simplicity of a single-socket architecture.

Specifications

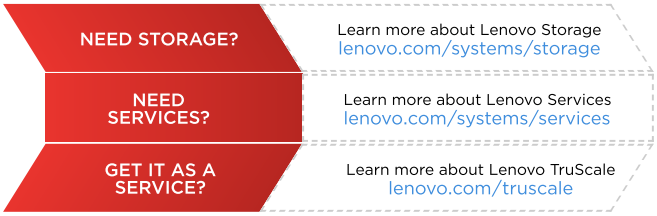
Form Factor	2U Rack server
Processor	1x 6th Generation AMD EPYC™ Processors, up to 256 cores
Memory	• Up to 16x TruDDR5 memory slots, 16 Channels at 1DPC • Maximum 4TB with support for RDIMM / MRDIMM, up to 8000MHz / 12800MHz
Drive Bays	• Front: Up to 16x E3.S drives • Boot: Up to 2x M.2 Hot-swap with RAID (Front)
Expansion Slots	• Up to 6x PCIe Gen6 x16/x8 slots • Up to 2x OCP 3.0 PCIe Gen5 x8 slots
GPU Support	Up to 2x single-width or 2x double-width GPUs
Network Interface	OCP 3.0 adapters, PCIe adapters
Power Supply	Up to 1+1 CRPS Premium and CRPS Power Supplies with multiple wattages supporting Titanium or Platinum efficiency level
Ports	• Front: One USB 2.0 Type-C with XCC mobile; and one USB 3.0 Type-C and mini-DP (optional) • Rear: XCC Remote Management GbE; 2x USB 3.0 (one Type-A and one Type-C); Display Port
Systems Management	Lenovo XClarity Controller
OS Support	Microsoft Windows Server, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, VMware ESXi. Visit lenovopress.com/osig for more information.
Limited Warranty	3-year customer replaceable unit and onsite services, next business day 9x5; optional service upgrades

About Lenovo

Lenovo is a US$83 billion revenue global technology powerhouse, ranked #153 in the Fortune Global 500, and serving millions of customers every day in 180 markets. Guided by its **vision** of "Smarter Technology for All", Lenovo is executing a **Hybrid AI strategy** that spans Personal AI – one personal AI, multiple devices; and Enterprise AI – helping customers turn data into insights and value. This strategy is delivered through the Group's commitment to **world-class innovation** and a full-stack AI portfolio, including devices, infrastructure solutions, software, and services. Lenovo is widely recognized for its **operational excellence**, with a global footprint spanning more than 20 R&D locations and a supply chain that includes more than 30 manufacturing sites across 10 markets.

For More Information

To learn more about the Lenovo ThinkSystem SR755 V5, contact your Lenovo representative or Business Partner or visit lenovo.com/thinksystem. For detailed specifications, consult the SR755 V5 Product Guide.



AMD EPYC

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