Lenovo ThinkSystem SR650 V4



Maximize scalability and performance to power diverse enterprise workloads

Versatility Meets Performance

The Lenovo ThinkSystem SR650 V4 is a versatile 2U rack server powered by Intel® Xeon® 6 processors. With expanded GPU capacity, and support for advanced memory technologies like MRDIMMs and CXL 2.0, PCIe Gen5, and flexible storage options, it's optimized for modern and future AI workloads.

- Optimized for Enterprise Workloads: Ideal for virtualization, databases, hybrid cloud, and analytics.
- Flexible Scalability: Supports up to 32x TruDDR5 RDIMMs, 36x NVMe drives, and 10x PCIe Gen5 slots.
- Sustainability and Reliability: Optional Lenovo Neptune® cooling and six nines uptime reliability for reduced costs and environmental impact.

The SR650 V4 offers scalability, efficiency, and security, delivering exceptional value for enterprises.

AI-Driven Intelligence Meets Performance - Smarter AI Everywhere

Deploying AI requires new skills and systems, with power, space, and cooling needs often leading to co-location or cloud solutions. Lenovo ThinkSystem SR650 V4 with XClarity One enables fast, secure deployment across on-prem, co-located, or cloud infrastructures.

Lenovo's AI optimized management tool XClarity provides centralized control, remote access, and AI predictive analytics to prevent downtime. It also features SSD failure analysis and enhanced security with federated directory.

Engineered for Sustainability from Design to Disposal

Lenovo ThinkSystem SR650 V4 reduces data center costs and environmental impact while delivering high performance. Its energy-efficient platforms meet ENERGY STAR® standards, enabling up to 3:1 rack consolidation.

Lenovo's Certified Refurbished program extends server life, and over 1 million assets have been recycled. The SR650 V4 features Lenovo Neptune® cooling options for better thermal efficiency to help meet sustainability goals.

Specifications

Form Factor/Height	2U rack server
Processors	Up to 2x Intel® Xeon® 6 processors, up to 86 cores and 350W TDP
Drive Bays	• Front: Up to 24x 2.5″ SAS/SATA/NVMe, or 32x E3.S NVMe, or 12x 3.5″ SAS/SATA • Mid: Up to 8x2.5” SAS/SATA/NVMe • Rear: Up to 8x 2.5″ or 4x 3.5″ SAS/SATA/NVMe • Bootable device: Up to 2x M.2 SATA/NVMe drives with RAID support, optional hot swap • Supports Direct NVMe, VROC/VMD
Memory	Supports up to 32x TruDDR5 3DS/RDIMMs with speeds up to 6400MHz; up to 16x TruDDR5 MRDIMMs with speeds up to 8000MHz. Maximum capacity up to 8TB.
Expansion Slots	• Up to 10x PCIe Gen5 slots • 2x OCP 3.0 slots
GPUs	Up to 10x single-width GPUs or 2x double-width GPUs
Network Interface	• OCP adapter installed in the OCP 3.0 slot • Networking PCIe adapters

Ports	• Front:
	  ◦ Optional 2x USB 3.0 with XClarity Mobile support and 1x mini DP
	  ◦ Optional 1x external diagnostics handset port
	• Rear:
	  ◦ 2x USB 3.0 G1
	  ◦ 1x VGA
	  ◦ 1x 1GbE RJ-45 dedicated management port
	  ◦ Optional 2nd 1GbE management port in OCP slot location
	  ◦ Optional 1x Serial port

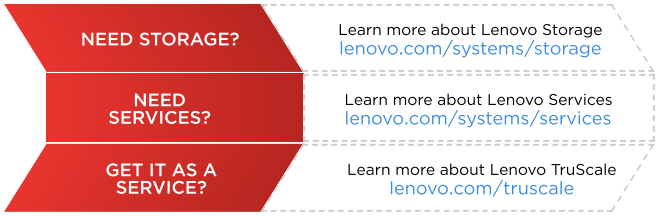
HBA/RAID Support	VROC for NVMe SW RAID (0,1,5,10); common building blocks including standard and internal PCIe RAID/HBA adapters
Cooling Solution	Lenovo Neptune® Core and Neptune® Air technology
Power	Dual Redundant AC & DC (multiple wattages); Platinum & Titanium efficiency ratings
Systems Management	Lenovo XClarity Controller
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; 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 SR650 V4, contact your Lenovo representative or Business Partner or visit www.lenovo.com/thinksystem. For detailed specs, consult the SR650 V4 Product Guide



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