Lenovo ThinkSystem SR950 V3

Exceptional performance, scalability, and resiliency

Purpose-built for demanding workloads

The ThinkSystem SR950 V3 server is designed for heavy, mission-critical workloads, such as SAP HANA, applications, databases, Big Data, business analytics, ERP and CRM applications, and virtualization.

This powerful 8U server consists of eight 4th Gen Intel® Xeon® Scalable processor family CPUs for compute intensive workloads and delivers up to 172% higher performance improvement over the first-generation system.

Maximum performance and reliability

Core business workloads require systems that can provide maximum performance and continuous availability. With increased performance across CPU, memory, storage, and I/O, the SR950 V3 expands on industry-standard technology to establish new thresholds of performance.

Incorporating eight 4th Gen Intel® Xeon® Scalable processors, the ThinkSystem SR950 V3 supports up to 32TB of memory and 480 processing cores in 8U of rack space. Featuring multiple levels of resiliency to protect data, the server is built to ensure continuous operation and deliver "always-on" reliability.

Leading SAP solution

Designed for maximum performance, the ThinkSystem SR950 V3 server is ideal for the most demanding SAP HANA deployments, providing superior capability and greater business value. This server allows organizations to make faster, more informed decisions, even with escalating data loads. Compared to the ThinkSystem SR950, the SR950 V3 provides:

- 2x more SAP users
- 33% larger SAP HANA DB
- 63% increase in bandwidth supports larger SAP HANA appliances

By networking nodes together, it is simple to establish multi-node, scale-out setups that enable greater SAP HANA memory capacities. With this modular approach, you may expand your infrastructure along with your SAP HANA environment.

Furthermore, the Lenovo solution does away with the frequently necessary SAN storage by integrating high availability and automated failover functionality.

Learn more about Lenovo SAP solutions.

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Efficient deployment, management, and security

All ThinkSystem servers have an internal management engine called Lenovo XClarity Controller that is intended to standardize, streamline, and automate core server management activities. Through the XClarity Controller, alerts may be exposed to the Lenovo XClarity Administrator, VMware vCenter, and Microsoft System Center. By allowing you to take the necessary steps ahead of potential problems, these alerts improve server uptime and application availability.

Platform Firmware Resiliency (PFR) and Trusted Platform Module (TPM) 2.0 are also included in the Root of Trust (RoT) module to further secure and authenticate the system. These modules aid in preventing unauthorized access to important platform subsystems by spotting unauthorized firmware updates, recovering corrupted images to a known-safe image, and monitoring firmware to make sure it has not been compromised.
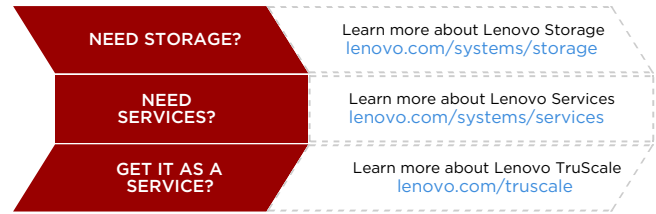
Specifications

Form Factor/Height	8U rack
Processor	8x 4th Gen Intel® Xeon® Scalable processors, up to 350W, No HBM, 4 UPI Mesh topology; With up to 4x QAT, DLB, IAA and DSA Accelerators
Drive Bays	Front: Up to 16x E3.S EDSFF PCIe 5.0 NVMe or up to 16x 2.5" SAS/SATA SSDs Internal: 2x M.2 NVMe
Memory	Up to 128x DDR5 memory DIMMs DDR5 RDIMMs: 32GB/64GB; 3DS RDIMMs 128GB/256GB 4800MHz @1DPC, 4400MHz @2DPC
Expansion Slots	Support 6x FHHL x16 PCIe 5.0 slots at front Support up to 8x FHHL x16 PCIe 4.0 slots at rear Support up to 1x rear OCP (supports NCSI)
HANA Appliance	SAP Business Warehouse on HANA (BWoH) (Analytical) – 8TB 8S HANA SAP Business Suite on HANA (SoH)/S/4HANA (Transactional) – 16TB 8S HANA
Network Interface	1 OCP 3.0 slot supporting 1GbE, 10GbE or 25GbE 1GbE dedicated management port
Ports	FIO LED (power, locate, error, network activity) Video Port – Front, external LCD operational port USB 2x 3.0 – 1x USB 2.0 in Front Dedicated RJ-45 Ethernet management port
HBA/RAID Support	Common building block PCIe RAID/HBA cards
Power Supply	Up to 12x PSUs, Redundant N+N CFFv4: 1800W Titanium
Systems Management	XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management
OS Support	SUSE, Red Hat, VMware vSphere; 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

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About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US$62 billion revenue global technology powerhouse, ranked #171 in the Fortune Global 500, employing 77,000 people around the world, and serving millions of customers every day in 180 markets. Focused on a bold vision to deliver smarter technology for all, Lenovo is expanding into new growth areas of infrastructure, mobile, solutions and services. This transformation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.

For More Information

To learn more about the Lenovo ThinkSystem SR950 V3, contact your Lenovo representative or Business Partner or visit: lenovo.com/thinksystem. For detailed specifications, consult the SR950 V3 Product Guide.

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