Lenovo ThinkSystem SR630 V4

Ultimate Efficiency, Speed & Performance in a 1U2S Rack Server

Maximum Core Performance

The ThinkSystem SR630 V4 server is powered by dual Intel® Xeon® 6 processors with a new class of Performance-cores (P-cores) and provides up to 172 cores and support MRDIMMs for ultra performance.

Compared to the previous generation, the SR630 V4 doubles the number of cores per rack and increasing performance for high density and scale out workload in customer segments like cloud service providers (CSP) and telecommunication service over the previous generations.

The increase in cores per rack maximizes the number of workloads managed per rack. With the SR630 V4 a customer can consolidate workloads, reduce their data center footprint, and easily plan for future expansion.

Faster Insights

The ThinkSystem SR630 V4 powered by Intel® Xeon® 6 processors with P-Cores are optimized for high performance per core, delivering better performance for not only general purpose workloads but also compute-intensive workloads.

With the latest PCIe 5.0, an increase in DDR5 memory speed, MRDIMM & CXL 2.0 technology the ThinkSystem SR630 V4 offers twice the application bandwidth and is the ideal choice for tackling compute-demanding workloads like Telco's 5G Core and web transactions, modeling, and simulation.

Designed for Efficiency

There are multiple options and features to increase the efficiency of the ThinkSystem SR630 V4. Customers can choose the efficiency features that fits their workloads and data center requirements best.

New with the ThinkSystem SR630 V4 is a redesigned bezel which improves airflow within the server by 5%.

Intel's P-core processors deliver unmatched levels of performance and power efficiency across the greatest range of workloads from AI, HPC, cloud services, virtualization to enterprise applications. With the P-cores the SR630 V4 reduces power consumption while maximizing performance.

For maximum efficiency, the ThinkSystem SR630 V4 has Neptune Core Module reduces fan power consumption by up to 84%, cutting total power use by 34% per rack. The solution maximizes the system's performance while reducing energy consumption.

Enhanced Security

Security is an important aspect of any infrastructure and at Lenovo, we take security seriously. We have enhanced our security features on the ThinkSystem SR630 V4 servers to ward off next level threats and ensure our hardware and firmware is secure out of the box. The ThinkSystem SR630 V4 has the latest FIPS 140-3 compliance and additional firmware protection to protect against bad actors.

ThinkSystem

intel XEON

Physical security is a key concern to those who leverage a colocation facility to augment their data center. The ThinkSystem SR630 V4 has an optional locking front bezel to protect your assets in a shared environment.

XClarity One System Management

The ThinkSystem SR630 V4 includes XClarity One system management and the industry's first hybrid cloud-based unified Management-as-a-Service providing three predictive failure analytics engines to swiftly identify potential issues and minimize system downtime while increasing accuracy.

The ThinkSystem SR630 V4 includes XClarity Controller to monitor server availability. Optional upgrade to XCC Platinum to provide remote control (keyboard video mouse) functions, support for mounting remote media files (ISO and IMG image files), boot capture, and power capping.

XClarity One's integrated security includes:

- Federated Directory allows you to centrally manage identities via a unified registry with permissions, granting secure access to multiple apps with a single account.
- Two-factor authentication is required for all users.
- The ability to proactively disable individual management functions to limit external exposure.

Intel® Xeon® processors
That's the power of Intel Inside®

Specifications

Form Factor/Height	1U rack server
Processor	Up to 2x Intel® Xeon® 6 processors, support P-core and E-core SKUs, up to 288 cores and 350W TDP
Drive Bays	• Front: Up to 10x 2.5″ SAS/SATA/NVMe, or 16x E3.S NVMe, or 8x CXL memory modules • Rear: Up to 2x 2.5″ 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 32x TruDDR5 3DS/RDIMMs with speeds up to 6400MHz; 16x TruDDR5 MRDIMMs with speeds up to 8000MHz Maximum memory capacity up to 8TB
Expansion Slots	• Up to 3x PCIe 5.0 slots • 2x OCP 3.0 slots • 1x cabled internal HBA/RAID adapter
GPUs	Up to 3x single-width 75W GPUs
Network Interface	OCP adapters in OCP 3.0 slot, optional cabled x16; Networking PCIe adapters
Ports	Front: • Default LED and external diagnostic port • Optional 2x USB 3.0 with XClarity Mobile support and 1x mini-DP port • Optional 1x external diagnostics handset Rear: • 2x USB 3.0 • 1x VGA port • 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 for processors & memories Neptune® Air technology for processors
Power	Dual Redundant AC & DC (multiple wattages); Platinum & Titanium efficiency ratings Support standard CRPS form factor power supply
Systems Management	Lenovo XClarity Controller 3
OSes Supported	Microsoft, SUSE, Red Hat, VMware. Visit lenovopress.com/osig for more information.
Limited Warranty	1-year and 3-year customer replaceable unit and onsite service, next business day 9x5; optional service upgrades

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 SR630 V4, contact your Lenovo representative or Business Partner or visit www.lenovo.com/thinksystem. For detailed specs, consult the SR630 V4 Product Guide.

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