

# ThinkSystem SR635

## 1U/1P Tuned for Virtualization & Hybrid IT



### 2P Performance 1P Investment Value

The Lenovo ThinkSystem SR635 with the next generation AMD EPYC™ architecture is ideal for I/O intensive workloads, from databases and analytics, to virtualized environments (VDI) and hybrid cloud solutions.

This 1U, single socket rack server is right-sized to offer the balanced processor power, performance, memory and I/O of a 2-socket server at the value and total cost of ownership of a 1-socket server. Utilizing the SR635 in a data center environment helps rein in both rising data center costs and data volumes while also addressing ever-expanding capability requirements for the software-defined data center.

With the enterprise class AMD EPYC™ 7002 / 7003 Series processor, the world's first 7nm data center CPU, the SR635 features up to an unprecedented 64 cores with 128 PCIe lanes in a single socket to reduce bottlenecks and increase server utilization.

Compared to the previous processor generations, ThinkSystem servers with AMD architecture deliver up to 2X performance and 4X floating point capability with PCIe Gen4 support and faster memory speeds up to 3200MHz, providing faster data transfer and analytics without sacrificing memory capacity or I/O.

### Flexible Design

ThinkSystem SR635 features a balanced design specifically tuned for virtualization and scale-out software-defined storage.

Capacity for up to 16x2.5" drives mean it is storage-intensive; and when outfitted with 16 low-latency NVMe drives, it provides 60% more NVMe and IOPS/box for OLTP, Analytics, software-defined and HPC storage.

It is also workload-hungry featuring three single-wide graphic processing units (GPUs) and three PCIe Gen4 slots achieving up to 16 GT/s for increased acceleration and supporting 1TB of DDR4 memory capacity using 16 DIMMs, ideal for in-memory database applications.

The SR635 server's design allows it to be tuned for workloads that benefit from greater I/O capabilities, GPU-intensive environments, and low-latency storage.

Such capabilities make the SR635 ideal for industry verticals such as: grid-computing and high-frequency trading analytics in the financial services sector, capacity planning and supply chain optimization in both the telco and manufacturing industries, and EHR/EMR analysis in the healthcare sector.

Lenovo

Built-in Management, Security & Services

Monitor hardware and handle alerts, events, and logs with Lenovo XClarity Administrator system management software. Trust Lenovo ThinkShield to protect and defend your data center infrastructure from attacks, with a comprehensive end-to-end approach to security that begins with development and continues through supply chain and the full life cycle of the device. AMD EPYC processors also offer unique security features, embedded with secure boot and full memory encryption capabilities to address growing security-threats.

Finally, Lenovo’s portfolio of services support the full lifecycle of your Lenovo IT assets - from planning, deployment and support to asset recovery.

Specifications

Form Factor / Depth	1U / 778mm (30.6 inches)
Processor	Choice of one AMD EPYC™ 7002 / 7003 Series processor, up to 280W
Memory	16x DDR4 memory slots; Maximum 2TB using 128GB 3DS RDIMMs; Up to 1 DPC at 3200MHz, 2 DPC at 2933MHz
Drive Bays	Up to 4x 3.5" or 16x 2.5" drives; Supports 16x NVMe drives with 1:1 connection (no oversubscription)
RAID Support	Hardware RAID with flash cache; HBAs
Power Supply	Two hot-swap/redundant power supplies: 550W/750W/1100W AC 80 PLUS Platinum; or 750W AC 80 PLUS Titanium
Network Interface	OCP 3.0 mezz adapter, PCIe adapters
Slots	3x PCIe 4.0 x16 rear slots, 1x OCP 3.0 adapter slot, 1x PCIe 4.0 x8 internal slot
Ports	Front: 2x USB 3.1 G1 ports, 1x VGA (optional) Rear: 1x VGA, 2x USB 3.1 G1, 1x Serial port; 1x RJ-45 1Gb for dedicated management
Systems Management	ASPEED AST2500 BMC, Partial XClarity support
Operating Systems	Microsoft Windows Server, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, VMware vSphere. Visit <a href="https://lenovopress.com/osig">lenovopress.com/osig</a> for more information.
Limited Warranty	1- and 3-year customer replaceable unit and onsite service, next business day 9x5; optional service upgrades

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security.

Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For More Information

To learn more about the Lenovo ThinkSystem SR635, contact your Lenovo representative or Business Partner or visit [lenovo.com/thinksystem](https://lenovo.com/thinksystem). For detailed specifications consult the SR635 Product Guide at [lenovopress.com/lp1160](https://lenovopress.com/lp1160).

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