

# ThinkSystem SR655

## 2U/1P Optimized for VDI and SDS



### World-Class Performance

The Lenovo ThinkSystem SR655 with the next generation AMD EPYC™ architecture delivers outstanding TCO for Virtualization, Big data, Analytics, and scale up software defined deployments. It offers two-socket performance in a 2U, single-socket design, featuring higher core, and storage density; increased I/O throughput with less latency; along with built-in system security.

The SR655 proves highly capable when managing 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 processors, the world's first 7nm data center CPU, the SR655 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, providing faster data transfer and analytics without sacrificing memory capacity or I/O with PCIe Gen4 support and faster memory speeds up to 3200MHz.

### Flexible Design

ThinkSystem SR655 is a multi-GPU optimized rack server, providing support for up to 6 single-wide GPUs that offer 200% more workload acceleration in AI Inference, and virtualized desktop infrastructure (VDI).

Harnessing the power of 64 cores to VDI instances provides cutting edge application efficiency in health care applications such as EMR, PACS, and medical imaging or electronic trading platforms for financial services applications.

The SR655 can support up to 32 NVMe solid-state drives that, when paired with high speed networking, make it an excellent choice for workloads that need large amounts of low-latency high-bandwidth storage, including virtualized clustered SAN solutions, software-defined storage (SDS), and applications leveraging NVMe over Fabrics.

Outfitted with up to 9x PCIe Gen4 slots provides scalability that make it well-suited for capacity planning and supply chain optimization in the manufacturing industry, networking security, and telco use cases.

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	2U / 764mm (30 inches)
Processor	Choice of one AMD EPYC™ 7002 / 7003 Series processors, 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 20x 3.5" or 32x 2.5" drives; Maximum of 32x NVMe drives with 1:2 connection
GPUs	2 double-width GPUs up to 300W each, or 6 single-width GPUs up to 75W each
RAID Support	Hardware RAID flash cache; HBAs
Power Supply	Two hot-swap/redundant: 550W/750W/1100W AC 80 PLUS Platinum; or 750W AC 80 PLUS Titanium
Network Interface	OCP 3.0 mezz adapter, PCIe adapters
Slots	8x PCIe 4.0 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
OSes Supported	Windows 10 Pro for Workstations, Windows 11 Pro for Workstations, 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 SR655, contact your Lenovo representative or Business Partner or visit [lenovo.com/thinksystem](https://lenovo.com/thinksystem). For detailed specifications consult the SR655 Product Guide at [lenovopress.com/lp1161](https://lenovopress.com/lp1161).

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