

# ThinkSystem SR645

## Standout versatility in 1U



### Skillful Performance

The Lenovo ThinkSystem SR645 is powered by two AMD EPYC™ 7003 Series CPUs in a compact 1U rack server form factor maximizing CPU core and memory density. These features deliver the next era of solution performance for enterprise data center operations such as database, analytics and virtualization workloads. Lenovo's lauded system reliability, XClarity management capabilities, and security infrastructure layer add to the exceptional value that the ThinkSystem SR645 brings to the data center.

The modern data center demands ever-expanding capability, requiring server technology to deliver more performance that tests the limits of physics. With the enterprise-class AMD EPYC™ 7003 Series processor, the new standard for the modern data center CPU, the ThinkSystem SR645 features an unprecedented 128 cores and 128 Gen4 PCIe lanes in a server to maximize server utilization and decrease network bottlenecks in HPC workloads.

### Versatile Design

The ThinkSystem SR645's versatility addresses a wide range of data management solutions. Support for multiple GPUs in 1U streamlines performance for virtual desktop infrastructure (VDI) deployments, providing the technical resources to aid in scale-out VDI instances for a growing enterprise workforce.

Unique Lenovo AnyBay technology provides optimized storage flexibility and performance, with support for up to 12x 2.5-inch SAS/SATA HDDs/SSDs. High-speed, low latency NVMe storage is ideal for caching data utilized in analytics and database deployments to gain better business insights and take control of the growing volume, variety, and velocity of data.

### Innovative Management

The ThinkSystem SR645 features Lenovo's lauded XClarity system management suite. The XClarity management controller supports an easy-to-use application with industry standard Redfish-compliant REST APIs that provide streamlined hardware provisioning and maintenance and enable a data-driven, centralized view of data center operations.

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 server. 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.

Lenovo

## Specifications

<b>Product Name(s)</b>	ThinkSystem SR645
<b>Form Factor</b>	1U rack server
<b>Processors</b>	Up to 2 AMD EPYC™ 7002 / 7003 Series Processors, up to 64C, 280W
<b>Memory</b>	32 DDR4 memory slots; Maximum 8TB using 256GB 3DS RDIMMs; up to 1DPC at 3200MHz, 2DPC at 3200MHz
<b>Drive Bays</b>	Up to 4x 3.5-inch or 12x 2.5-inch drives; Maximum of 12x NVMe drives with 1:1 connection
<b>Expansion Slots</b>	Up to 3x PCIe 4.0 slots, 1x OCP 3.0 adapter slot
<b>GPU</b>	Up to 3x single-width 75W GPUs
<b>Network Interface</b>	OCP 3.0 mezz adapter, PCIe adapters
<b>Power</b>	Dual redundant PSUs (up to 1800W Platinum)
<b>Ports</b>	Front: 1x USB 3.1 G1, 1x USB 2.0, 1x VGA (optional) Rear: 3x USB 3.1 G1, 1x Serial port (optional) 1x RJ-45 (management)
<b>Systems Management</b>	Lenovo XClarity Controller
<b>OS Support</b>	Microsoft Windows Server, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, VMware ESXi
<b>Limited Warranty</b>	1- and 3-year customer replaceable unit and onsite services, next business day 9x5; optional service upgrades

For more details please see the ThinkSystem SR645 [product guide](#).

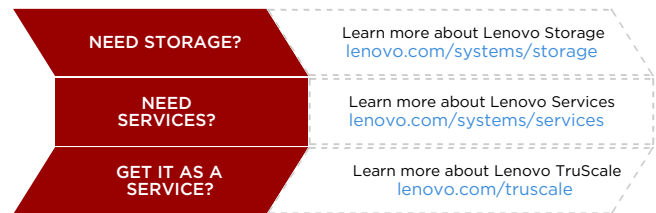
## Why Lenovo

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 SR645, contact your Lenovo representative or Business Partner or visit [lenovo.com/thinksystem](https://lenovo.com/thinksystem). For detailed specifications consult the ThinkSystem [SR645 product guide](#).



© 2025 Lenovo. All rights reserved.

**Availability:** Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. **Warranty:** For a copy of applicable warranties, write to: Lenovo Warranty Information, 1009 Think Place, Morrisville, NC, 27560. Lenovo makes no representation or warranty regarding third-party products or services. **Trademarks:** Lenovo, the Lenovo logo, AnyBay®, ThinkShield®, ThinkSystem®, and XClarity® are trademarks or registered trademarks of Lenovo. AMD and AMD EPYC™ are trademarks of Advanced Micro Devices, Inc. Linux® is the trademark of Linus Torvalds in the U.S. and other countries. Microsoft®, Windows Server®, and Windows® are trademarks of Microsoft Corporation in the United States, other countries, or both. Other company, product, or service names may be trademarks or service marks of others. Document number DS0110, published February 15, 2022. For the latest version, go to [lenovopress.lenovo.com/ds0110](https://lenovopress.lenovo.com/ds0110).