

Announcing the New ThinkSystem V3 Servers with 4th Gen Intel Xeon Scalable Processors

Article

Lenovo has announced the new ThinkSystem V3 servers based on the new 4th Generation Intel Xeon Scalable processors and the new Intel Xeon CPU Max Series processors.

- ThinkSystem SR950 V3 Server
- ThinkSystem SR860 V3 Server
- ThinkSystem SR850 V3 Server
- ThinkSystem SR650 V3 Server
- ThinkSystem SR630 V3 Server
- ThinkSystem ST650 V3 Server
- ThinkSystem SD650 V3 Neptune DWC Server
- ThinkSystem SD650-I V3 Neptune DWC Server

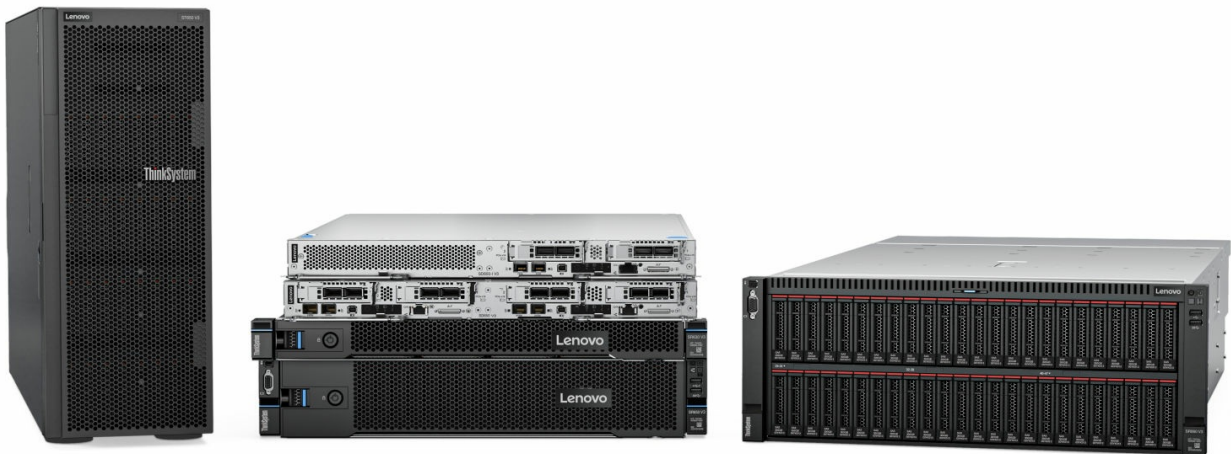


Figure 1. ThinkSystem V3 servers with 4th Gen Intel Xeon Scalable processors

ThinkSystem SR950 V3 Server

The ThinkSystem SR950 V3 is an 8U 8-socket server for the ultimate in scale-up capability and performance. The server supports eight 350W processors, each with 60 cores, and up to a massive 32TB of DDR5 system memory. The SR950 V3 is ideal for large databases and SAP HANA implementations.



Figure 2. ThinkSystem SR950 V3

Learn more about the server with these documents and web pages:

- [Datasheet](#)
- [Product Guide](#)
- 3D Tour (coming soon)
- [Product web page](#)

ThinkSystem SR650 V3 Server

The ThinkSystem SR650 V3, with dual 4th Gen Intel® Xeon® Scalable processors, is designed for performance. With a GPU-rich 2U platform, an abundance of TruDDR5 memory or Intel Optane™ persistent memory for speed, and increased I/O lanes for optimized data transfer rates, the SR650 V3 is ideal for complex workloads like AI, HPC, cloud service computing, virtualization and IT infrastructure.



Figure 3. ThinkSystem SR650 V3 Server

Learn more about the server with these documents and web pages:

- [Datasheet](#)
- [Product Guide](#)
- [3D Tour](#)
- [Product web page](#)

ThinkSystem SR630 V3 Server

The ThinkSystem SR630 V3 is a powerful, dual processor, 1U rack server maximized for performance. Designed for agility and speed, the SR630 V3 operates versatile workloads while providing easy management. With 4th Gen Intel Xeon Scalable processors, 32 DIMMs of the latest TruDDR5 memory, PCIe Gen5 technology, and 16 EDSFF drives thru direct NVMe, it offers the speed and density desired by cloud service providers and enterprises.



Figure 4. ThinkSystem SR630 V3 Server

Learn more about the server with these documents and web pages:

- [Datasheet](#)
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- [3D Tour](#)
- [Product web page](#)

ThinkSystem SR860 V3 Server

The Lenovo ThinkSystem SR860 V3 is a 4U rack server that features a 4U rack design with support for high-performance GPUs. The server offers technology advances, including fourth-generation Intel Xeon Scalable processors with Intel Optane Persistent Memory 300 Series, and scale-up capacity with up to 16TB of system memory, up to 18x PCIe slots, and up to 48x 2.5-inch drive bays. The SR860 V3 is ideal for Mission critical workloads such as SAP HANA in-memory computing, transactional databases, deep learning, analytics, big data, and virtual machine density.



Figure 5. ThinkSystem SR860 V3 Server

Learn more about the server with these documents and web pages:

- [Datasheet](#)
- [Product Guide](#)
- [3D Tour](#)
- [Product web page](#)

ThinkSystem SR850 V3 Server

The ThinkSystem SR850 V3 is a 4-socket server that is densely packed into a 2U rack design. The server offers technology advances, including fourth-generation Intel Xeon Scalable processors with Intel Optane Persistent Memory 300 Series, and scale-up capacity with up to 16TB of system memory, up to 12x PCIe slots, and up to 24x 2.5-inch drive bays. The SR850 V3 is ideal for mission-critical scaling up from 2-socket systems such as enterprise virtualization, CRM, ERP, SQL databases, VDI and small-mid sized SAP HANA computing environments.



Figure 6. ThinkSystem SR850 V3 Server

Learn more about the server with these documents and web pages:

- [Datasheet](#)
- [Product Guide](#)
- [3D Tour](#)
- [Product web page](#)

ThinkSystem ST650 V3 Server

A new enterprise tower server with two Intel Xeon Scalable processors, the Lenovo ThinkSystem ST650 V3, is suitable for small businesses and large enterprises alike — companies that need industry-leading reliability, management, and security, as well as maximizing performance and flexibility for future growth.



Figure 7. ThinkSystem ST650 V3 Server

Learn more about the server with these documents and web pages:

- [Datasheet](#)
- [Product Guide](#)
- [3D Tour](#)
- [Product web page](#)

ThinkSystem SD650-I V3 Neptune DWC Server

The ThinkSystem SD650-I V3 Neptune DWC node is the next-generation high-performance server based on the fifth generation Lenovo Neptune™ direct water cooling platform. The server maximizes compute power by integrating the following new technologies from Intel:

- 4th Gen Intel Xeon Scalable processors
- Intel Xeon CPU Max Series processors
- Intel Data Center GPU Max Series accelerators

The direct water cooled solution is designed to operate by using warm water, up to 45°C (113°F) depending on the configuration. These new offerings from Intel, combined with Lenovo's market-leading water-cooling solution, result in extreme performance in an extreme dense packaging, supporting your application from Exascale to Everscale™.

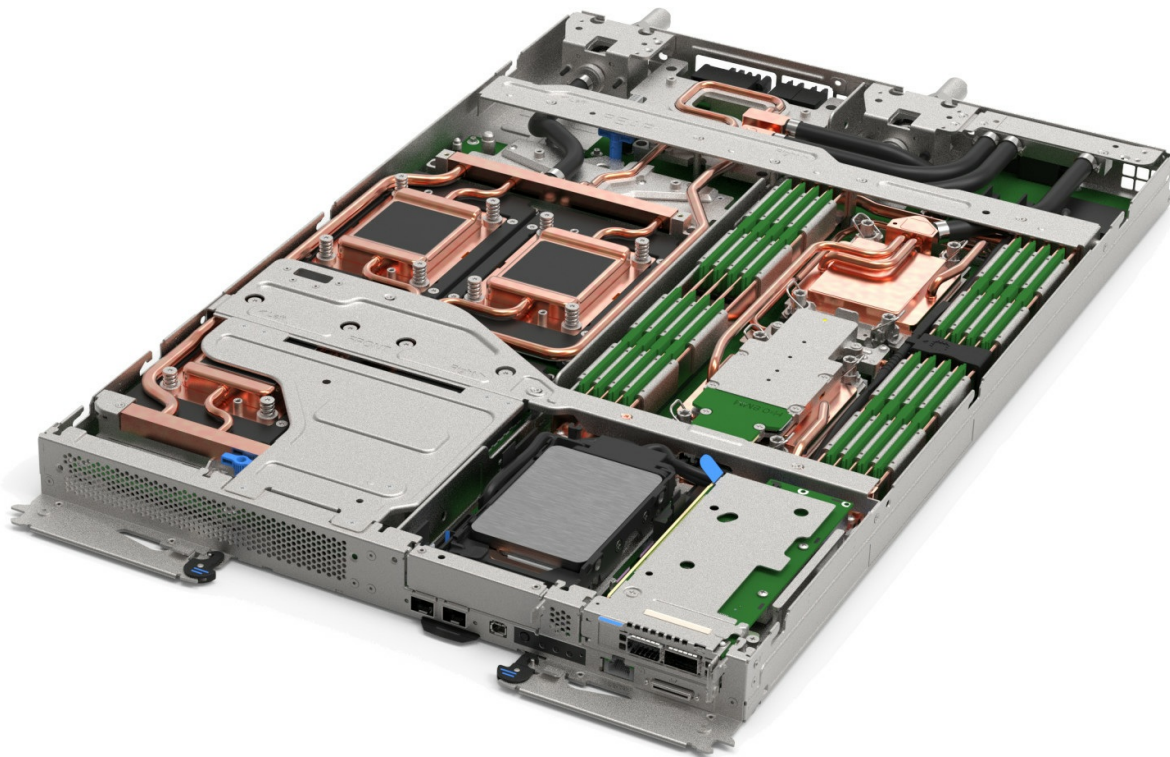


Figure 8. ThinkSystem SD650-I V3 Neptune DWC Server

Learn more about the server with these documents and web pages:

- [Datasheet](#)
- [Product Guide](#)
- [3D Tour](#)
- [Product web page](#)

ThinkSystem SD650 V3 Neptune DWC Server

The ThinkSystem SD650 V3 Neptune Direct Water Cooled (DWC) node is the next-generation high-performance server based on the fifth generation Lenovo Neptune™ direct water cooling platform. With two 4th Gen Intel Xeon Scalable processors or two Intel Max Series processors, the SD650 V3 server combines the latest Intel processors and Lenovo's market-leading water-cooling solution, which results in extreme performance in an extreme dense packaging, supporting your application from Exascale to Everscale™. The direct water cooled solution is designed to operate by using warm water, up to 45°C (113°F).

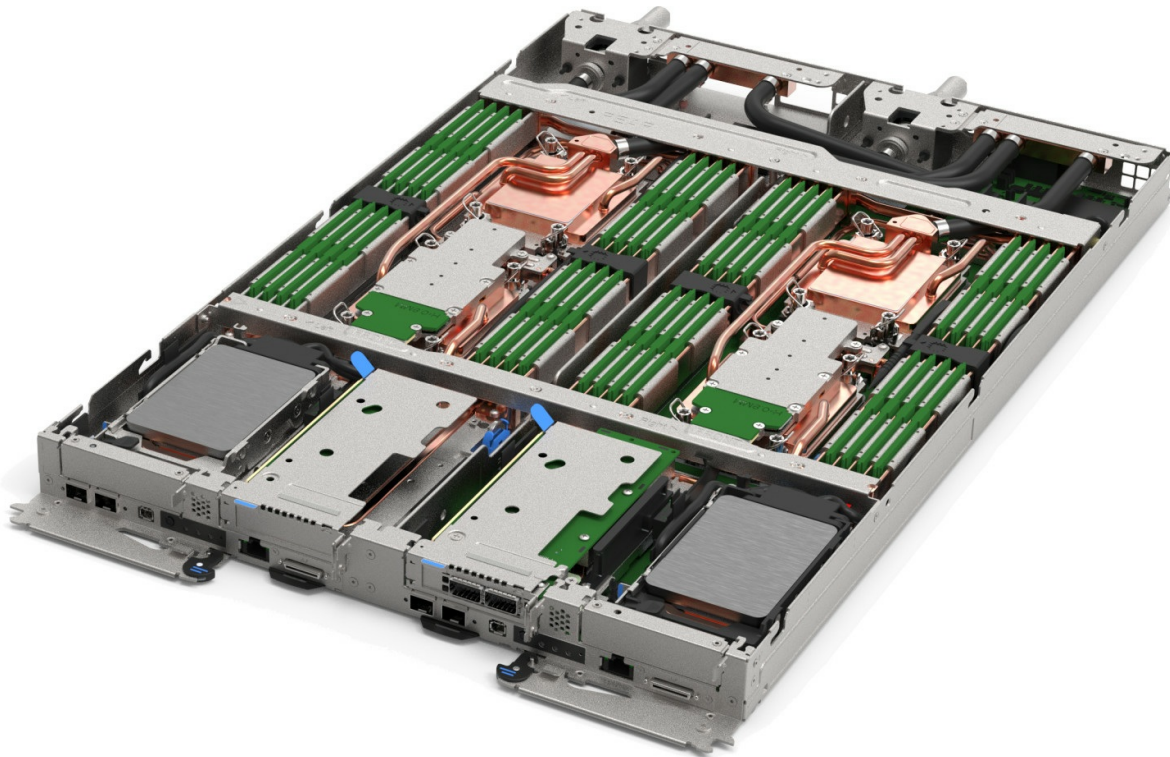


Figure 9. ThinkSystem SD650 V3 Neptune DWC Server

Learn more about the server with these documents and web pages:

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- [Product web page](#)

Related product families

Product families related to this document are the following:

- [ThinkSystem SD650 V3 server](#)
- [ThinkSystem SD650-I V3 server](#)
- [ThinkSystem SR630 V3 Server](#)
- [ThinkSystem SR650 V3 Server](#)
- [ThinkSystem SR850 V3 Server](#)
- [ThinkSystem SR860 V3 Server](#)
- [ThinkSystem ST650 V3 Server](#)

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