

What's New - ThinkSystem SR860 V2 and SR850 V2 Article

Introducing the new ThinkSystem SR860 V2 and ThinkSystem SR850 V2 servers. These are new 4-socket high-performance servers based on the new third-generation Intel Xeon Scalable processors and Intel Optane Persistent Memory 200 Series. These servers offer broad storage and memory support, and in the case of the SR860 V2, extensive GPU support. Learn about the materials we've published to introduce the new servers.

Learn more about the announcement:
<https://www.lenovo.com/data-insights/>

ThinkSystem SR860 V2

The Lenovo ThinkSystem SR860 V2 is designed for the most demanding, mission-critical workloads, such as in-memory databases, large transactional databases, AI, real-time analytics, ERP, CRM, and virtualized server workloads.



Figure 1. ThinkSystem SR860 V2

Key specifications:

- 4U rack mount server
- Up to four 3rd Generation Intel Xeon Processor Scalable family CPUs up to 250W
- Up to 12TB DDR4 memory
- Supports Intel Optane Persistent Memory 200 Series
- Up to 48x 2.5" front-accessible drive bays, up to 24 of which can be NVMe
- Up to 14x PCIe 3.0 expansion slots + dedicated OCP 3.0 slot for networking
- Up to 4x NVIDIA V100S GPUs or 8x NVIDIA T4 GPUs

Learn more about the SR860 V2 server with these resources:

- [SR860 V2 product web page](#)
- Article, [Five Highlights of the Lenovo ThinkSystem SR860 V2](#)
- Article, [Unique Intel Features Available with ThinkSystem SR850 V2 and SR860 V2](#)
- [SR860 V2 Datasheet](#)
- [SR860 V2 interactive 3D Tour](#)
- [SR860 V2 Walkthrough Video](#)
- [SR860 V2 Product Guide](#)
- [Compare the SR860 V2 to other servers in the portfolio](#)
- [DCSC configurator](#)

ThinkSystem SR850 V2

The Lenovo ThinkSystem SR850 V2 is designed for high-growth workloads; in-memory computing, databases and virtualization, with large memory and storage capacities.



Figure 2. ThinkSystem SR850 V2

Key specifications:

- 2U rack mount server
- Up to four 3rd Generation Intel Xeon Processor Scalable family CPUs up to 250W
- Up to 12TB DDR4 memory
- Supports Intel Optane Persistent Memory 200 Series
- Up to 24x 2.5" front-accessible drive bays, all of which can be NVMe if desired
- Up to 7x PCIe 3.0 expansion slots + dedicated OCP 3.0 slot for networking
- Up to 2x NVIDIA T4 GPUs

Learn more SR850 V2 server with these resources:

- [SR850 V2 product web page](#)
- Article, [Five Highlights of the Lenovo ThinkSystem SR850 V2](#)
- Article, [Unique Intel Features Available with ThinkSystem SR850 V2 and SR860 V2](#)
- [SR850 V2 Datasheet](#)
- [SR850 V2 interactive 3D Tour](#)
- [SR850 V2 Walkthrough Video](#)
- [SR850 V2 Product Guide](#)
- [Compare the SR850 V2 to other servers in the portfolio](#)
- [DCSC configurator](#)

New server options

In addition to the SR850 V2 and SR860 V2 servers, we've also announced these new server options. Click the links to view the product guide for the new options:

- [Intel Optane Persistent Memory 200 Series](#)
- [Mellanox ConnectX-6 Lx 10/25GbE SFP28 Ethernet Adapters](#)
 - ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-Port OCP Ethernet Adapter
 - ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-Port PCIe Ethernet Adapter
- [Intel S4510 SSDs in the 7mm hot-swap form factor](#) :
 - ThinkSystem 7mm Intel S4510 240GB Entry SATA 6Gb Hot Swap SSD
 - ThinkSystem 7mm Intel S4510 480GB Entry SATA 6Gb Hot Swap SSD
 - ThinkSystem 7mm Intel S4510 960GB Entry SATA 6Gb Hot Swap SSD
- 7.68TB capacities of the 2.5-inch S4510 and S4610 SSDs:
 - [ThinkSystem 2.5" Intel S4510 7.68TB Entry SATA 6Gb Hot Swap SSD](#)
 - [ThinkSystem 2.5" Intel S4610 7.68TB Mainstream SATA 6Gb Hot Swap SSD](#)
- [High-endurance Intel Optane P4800X SSD](#) :
 - ThinkSystem U.2 Intel Optane P4800X 750GB Performance NVMe PCIe 3.0 x4 Hot Swap SSD 60DWPD

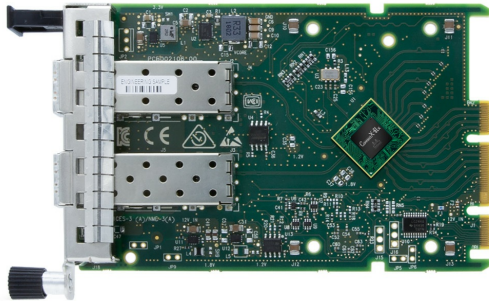


Figure 3. ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-Port OCP Ethernet Adapter

New #1 Benchmarks

The SR860 V2 server has achieved 37 new #1 benchmark results, to date:

- 6 World Records with New SPECcpu Benchmark Results
- 2 World Records with New TPC-E Benchmark Result
- 3 World Records with New SAP BW Edition for SAP HANA (1.3B Records) Benchmark Result
- 3 World Records with New SAP BW Edition for SAP HANA (7.8B Records) Benchmark Result
- 2 World Records with New 1-node SPECmpiM Benchmark Result
- 2 World Records with New 2-node SPECmpiM Benchmark Result
- 2 World Records with New 3-node SPECmpiM Benchmark Result
- 2 World Records with New 4-node SPECmpiM Benchmark Result
- 2 World Records with New 1-node SPECmpiL Benchmark Result
- 2 World Records with New 2-node SPECmpiL Benchmark Result
- 2 World Records with New 3-node SPECmpiL Benchmark Result
- 2 World Records with New 4-node SPECmpiL Benchmark Result
- 2 World Records with New SPEC ACCEL OpenACC Benchmark Result
- 2 World Records with New SPEC ACCEL OpenMP Benchmark Result
- 2 World Records with New SPEC ACCEL OpenCL Benchmark Result
- 1 World Record with New SPECCompG Benchmark Result

For details of these benchmark results, see the reports on the web site:

<https://lenovopress.com/servers/thinksystem-v2/sr860-v2#rt=performance-benchmark-result>

Related product families

Product families related to this document are the following:

- [ThinkSystem SR860 V2 Server](#)
- [ThinkSystem SR850 V2 Server](#)

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