

# Real Solutions For Real-World Workloads



The latest ThinkSystem™ servers are packed with innovations like Lenovo Neptune™ cooling technology, 3rd Gen Intel® Xeon® Scalable processors, and the enhanced security you'd expect from Lenovo and Intel. With eight new servers to choose from, you can create the ideal solution to accelerate and secure your workloads – including high-performance computing (HPC), artificial intelligence (AI), modeling and simulation, cloud, virtual desktop infrastructure (VDI), and advanced analytics – so you can tackle real-world challenges while staying competitive.

## The next-generation ThinkSystem server platform

- **Freedom of Flexibility**  
Configure your system to meet your business needs now and down the road.
- **Petaflops of Performance<sup>1</sup>**  
Get massive computing power in minimal floor space – all with reduced energy consumption.
- **A Slew of Security**  
Protect your IT investment with enterprise-level security no matter what size your business.



When you have data-intensive workloads that require enhanced performance, reliability, flexibility and security, look to these smarter infrastructure solutions.



### ThinkSystem SR650 V2

- 2U two-socket server engineered for speed and expansion, with flexible storage and I/O for business-critical workloads
- Outstanding performance and memory capacity for database and virtual machine deployments
- Support for PCIe Gen4 networking to reduce data bottlenecks



### ThinkSystem ST650 V2

- Two-socket mainstream tower server
- Slimmer chassis (4U)
- Ideal for support in remote offices or branch offices (ROBO), technology and retail, while optimizing workloads



### ThinkSystem SR630 V2

- 1U two-socket server featuring optimized performance and density
- Ideal for hybrid data center workloads such as cloud, virtualization, analytics, computing, and gaming



### ThinkSystem SN550 V2

- Blade server node optimized for performance, efficiency and security
- Compact footprint
- Newest building block in the Flex System family
- Designed for business-critical workloads like cloud, server virtualization, databases, and VDI



# Need massive computing power in minimal floor space? Choose from these four new performance optimized servers.



## ThinkSystem SD650 V2

- Removes up to 90% of the systems heat<sup>2</sup> by leveraging Lenovo Neptune™ utilizing a highly reliable copper loop and cold plate architecture
- Built for compute-intensive workloads such as HPC, AI, cloud, grid, and advanced analytics



## ThinkSystem SD650-N V2

- Combines two 3rd Gen Intel® Xeon® Scalable processors with four GPUs to deliver maximum performance in a dense 1U package
- Lenovo Neptune platform, direct water-cooling technology for GPUs
- Half a rack delivers enough compute performance to make the TOP500 list of supercomputers.<sup>3</sup>



## ThinkSystem SD630 V2

- Ultra-dense, ultra-agile server
- Handles 2x the workloads per server rack unit of rack space vs. traditional 1U servers
- Lenovo Neptune™ Thermal Transfer Modules (TTMs)
- Supports processors up to 250W, driving up to 1.5 times the performance of the previous generation in the same rack space<sup>4</sup>



## ThinkSystem SR670 V2

- Highly versatile acceleration platform
- Designed for HPC and AI training workloads
- Flexibility to configure PCIe or SXM form factors
- Lenovo Neptune liquid-to-air heat exchanger configuration available

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<sup>1</sup> Unit of computing speed equal to one thousand million million (1015) floating-point operations per second.

<sup>2</sup> Based on internal research by Lenovo 90% heat removal via water. Jan-Mar 2021

<sup>3</sup> Based on Lenovo internal calculation: 36 Nodes per rack. 60 TF per node. 2160 TF =2.16 PF. Last Place on Nov 2020 TOP500 list = 1.3 PF.

<sup>4</sup> Based on Lenovo internal calculation: Intel: 8360Y CPU has 36 Cores with FP results of 419 vs. Intel: 8280 CPU has 28 cores with FP results of 270 = 1.55x FP performance improvement

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