

What's New - November & December 2017

Article

In November & December, Lenovo is announcing new servers and new server options. Read this article to find out what we announced, plus links to product guides with all the details.

New ThinkSystem servers

On November 28, we announced three new ThinkSystem servers, the SR860, SR590 and SR570.

ThinkSystem SR860 server

The Lenovo ThinkSystem SR860 is a 4-socket server that features a 4U rack design with support for GPUs, and is optimized for price and performance and best-in-class expandability.

Models of the SR860 are powered by up to four Intel Xeon Processor Scalable Family processors, each with up to 28 cores, for an efficient 4-socket solution.

For details, see the following Lenovo Press resources:

- [Product guide](#)
- [3D Interactive Tour](#)
- [Datasheet](#)
- Walkthrough video coming soon



Note: The SR860 is only available in China and countries in the EMEA region

ThinkSystem SR590 server

Lenovo ThinkSystem SR590 is a 2-socket 2U rack server for small businesses up to large enterprises that need industry-leading reliability, management, and security, as well as balancing performance and expandability.

The server supports 1 TB of memory, up to 16x 2.5-inch or 14x 3.5-inch drive bays with support of NVMe PCIe SSDs and SAS/SATA HDDs & SSDs, and a LOM networking slot and up to 6x PCIe slots.



For details, see the following Lenovo Press resources:

- [Product guide](#)
- [3D Interactive Tour](#)
- [Datasheet](#)
- Walkthrough video coming soon

ThinkSystem SR570 server

The Lenovo ThinkSystem SR570 server is a 2-socket 1U rack server for small businesses up to large enterprises that need industry-leading reliability, management, and security, as well as the balance of performance, memory, and flexible storage configurations.

The server supports 1 TB of memory, up to 10x 2.5-inch or 4x 3.5-inch drive bays with support of NVMe PCIe SSDs and SAS/SATA HDDs & SSDs, and a LOM networking slot and up to 3x PCIe slots.



For details, see the following Lenovo Press resources:

- [Product guide](#)
- [3D Interactive Tour](#)
- [Datasheet](#)
- [Walkthrough video](#)

88 Performance World Records

As of November 8, 2017, Lenovo achieved 46 new #1 benchmarks across the ThinkSystem server line. Combined with the 42 benchmarks we maintained as #1 from July, we now have a total of 88 current world record benchmarks.

These world-record benchmark results are primarily on the ThinkSystem SR950 and SR650 rack servers, however, records have also been set with the ThinkSystem SD530 dense server, SR630 and SR850 rack servers, and the SN550 blade server. All ThinkSystem servers are based on the Intel Xeon Scalable Family of processors.



ThinkSystem SD530 - GPUs and management upgrades

ThinkSystem SD530 GPU and management upgrades

On November 14, we announced the following upgrades to our 2U-Four-Node offering, the ThinkSystem SD530 server:

ThinkSystem SD530 GPU Tray

The SD530 now supports GPU adapters with the addition of SD530 GPU tray.

The GPU tray supports one or two double-wide GPUs and two of these combined systems can be installed in the enclosure for a total of 4 processors and 4 GPUs in 2U of rack space.

For details, see the GPU Tray and GPU adapters section of the [SD530 product guide](#).



Dual-port System Management Module

Lenovo also announced the Dual-port System Management Module. It has the same functions as the existing single-port SMM but offers two RJ45 ports. The SMM installs in the enclosure and provides the central point for management connections, both to the enclosure itself plus all servers installed in the enclosure.

The new dual-port SMM provides the ability to daisy-chain the management connections thereby reducing the number of ports you need in your management switches and reducing the overall cable density needed for systems management. Up to 7 enclosures can be daisy-chained together.



Dual-port SMM (left) and standard single-port SMM (right)

For details, see the Remote Management section of the [SD530 product guide](#).

Lenovo ThinkAgile VX Series appliances with VMware vSAN

Lenovo ThinkAgile VX Series appliances are designed to help you simplify IT infrastructure, reduce costs, and accelerate time to value.

These offerings are factory-integrated, pre-configured ready-to-go appliances and are based on Lenovo ThinkSystem servers and VMware vSAN Hyper-Converged Infrastructure (HCI) software. The VMware offers a unique, software-defined approach to hyper convergence, leveraging the hypervisor to deliver compute, storage and management in a tightly integrated software stack.



ThinkAgile VX5520 appliance

The three ThinkAgile VX Series appliances are described in the Lenovo Press product guides:

- [Lenovo ThinkAgile VX3320 Appliance](#) - 1U rack form factor for compute-heavy workloads
- [Lenovo ThinkAgile VX5520 Appliance](#) - 2U rack form factor for storage-heavy workloads
- [Lenovo ThinkAgile VX7520 Appliance](#) - 2U rack form factor for high-performance workloads

Lenovo ThinkAgile SX for Nutanix

Lenovo ThinkAgile SX for Nutanix delivers a turnkey, pre-integrated, easy-to-deploy rack-level solution that dramatically reduces time-to-value and provides a seamless end-to-end customer experience.

The solution is based on Lenovo ThinkAgile HX Series appliances that combine industry-leading hyperconvergence software from Nutanix with Lenovo enterprise platforms that feature Intel Xeon Processor Scalable Family.

ThinkAgile SX for Nutanix is a rack-level solution and is offered in two models:

- ThinkAgile SXN3000 42U: A 42U rack with up to 32 hyperconverged nodes, networking switches and rack power infrastructure
- ThinkAgile SXN3000 25U: A 25U half-rack with up to 16 hyperconverged nodes, networking switches and rack power infrastructure

Read about the details of these offerings in the [Lenovo ThinkAgile SX for Nutanix \(SXN3000\)](#) product guide.



Lenovo ThinkAgile SX for Nutanix

DSS-G enhancements

Lenovo Distributed Storage Solution for IBM Spectrum Scale (DSS-G) is a software-defined storage (SDS) solution for dense scalable file and object storage suitable for high-performance and data-intensive environments.

Enhancements to the DSS-G offering announced November 21:

- New Lenovo Client Site Integration Kit, machine type 7X74 where DSS-G components can be installed in a customer's existing rack
- New G100 model based on the ThinkSystem SR650
- New 12TB drive options

Read all about the DSS-G offering in the [Lenovo Distributed Storage Solution for IBM Spectrum Scale \(DSS-G\) product guide](#).

SAP HANA on ThinkSystem SR950

In addition to the configurations we recommend for SAP HANA solution, Lenovo has now announced predefined models available to customers in many countries. These models make it easy for customers to order and deploy a HANA solution.

The Lenovo ThinkSystem SR950 is Lenovo's flagship server, suitable for mission-critical applications that need the most processing power possible in a single server. The powerful 4U ThinkSystem SR950 can expand from two to as many as eight Intel Xeon Scalable Family processors. The modular design of SR950 speeds upgrades and servicing with easy front or rear access to all major subsystems that ensures maximum performance and maximum server uptime.



Lenovo ThinkSystem SR950

Read about the new HANA models in the [ThinkSystem SR950 product guide](#).

ThinkSystem SR950 updates

As of December 5, the following additional components are supported on the ThinkSystem SR950:

- New ThinkSystem SR950 4S Performance to 8S Upgrade Kit. The 4-Socket Performance configuration and 4-Socket Performance/Storage Rich configuration are now upgradable to 8-sockets with the addition of this kit
- Support for additional processors
- Support for Intel S4500 and S4600 SSDs
- Support for additional operating system point releases

Details in the [ThinkSystem SR950 product guide](#).

New Server Options

On November 21, we announced the following new server options for ThinkSystem servers:

- 13 new Intel Xeon Scalable Family processors
- 128GB 3DS RDIMMs for more servers
- [ThinkSystem Intel XXV710-DA2 PCIe 25Gb 2-Port SFP28 Ethernet Adapter](#)
- [ThinkSystem Mellanox ConnectX-4 PCIe FDR 1-Port QSFP VPI Adapter](#)
- [ThinkSystem I350-T2 PCIe 1Gb 2- & 4-Port RJ45 Ethernet Adapters](#)
- ThinkSystem Emulex LPe12000-M8-L PCIe 1- & 2-port 8Gb Fibre Channel Adapters (China only)
- [NVIDIA Tesla P40 and M10 GPUs](#)
- [Intel OPA Active Optical Cables](#)
- [ThinkSystem M.2 5100 480GB SATA 6Gbps Non-Hot-Swap SSD](#) for more servers
- New 104-key full-sized USB keyboards

The above links take you to the option product guides for those new components. In addition, we've updated the relevant server product guides:

- [ThinkSystem SD530](#)
- [ThinkSystem SN550](#)
- [ThinkSystem SN850](#)
- [ThinkSystem SR530](#)
- [ThinkSystem SR550](#)
- [ThinkSystem SR630](#)
- [ThinkSystem SR650](#)
- [ThinkSystem SR850](#)
- [ThinkSystem SR950](#)
- [ThinkSystem ST550](#)

In addition, we've announced new options for key System x servers:

- [Intel X710-DA4 4x10Gb SFP+ Adapter](#)
- [Intel X710-T4 4x10Gb Base-T Adapter](#)

The relevant server product guides have also been updated:

- [System x3250 M6](#)
- [System x3550 M5](#)
- [System x3650 M5](#)

New drive options - December 12

On December 12, we announced the following drives. The links take you to the new product guides we just published.

- [Intel P4800X Performance NVMe PCIe SSD](#)
(ThinkSystem)
- [Intel P4600 Mainstream NVMe PCIe 3.0 x4 SSDs](#)
(ThinkSystem & System x)
- [Intel P4500 Entry NVMe PCIe 3.0 x4 SSDs](#)
(ThinkSystem & System x)
- [3.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD](#)
(ThinkSystem & System x)



In addition, we updated all the relevant server product guides:

- [ThinkSystem SD530](#)
- [ThinkSystem SN550](#)
- [ThinkSystem SN850](#)
- [ThinkSystem SR530](#)
- [ThinkSystem SR550](#)
- [ThinkSystem SR630](#)
- [ThinkSystem SR650](#)
- [ThinkSystem SR850](#)
- [ThinkSystem SR950](#)
- [ThinkSystem ST550](#)
- [System x3550 M5 \(8869\)](#)
- [System x3650 M5 \(8871\)](#)

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