

What's New - October/November 2021 Article

New ThinkAgile VX 1U systems with AMD EPYC 7003 processors

This month, we announced the new ThinkAgile VX2375, VX3375, VX7375-N, VX3376 1U Integrated Systems and Certified Nodes. These are 2-socket 1U systems that feature the AMD EPYC 7003 "Milan" family of processors. The four systems are as follows:

- ThinkAgile VX2375 is suitable as a SMB, remote office and branch office system
- ThinkAgile VX3375 and VX3376 are for VDI, server virtualization, and private cloud workloads
- ThinkAgile VX7375-N is for high-performance workloads such as databases, Exchange, and SharePoint

Learn about them in the new ThinkAgile VX 1U AMD product guide:

- [ThinkAgile VX2375, VX3375, VX7375-N, VX3376 1U Integrated Systems and Certified Nodes](#)



Figure 1. Lenovo ThinkAgile VX with 2.5-inch drive bays

DSS-G now available with SR650 V2 servers

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

DSS-G combines the performance of Lenovo ThinkSystem servers, Lenovo storage enclosures, and industry leading IBM Spectrum Scale software, to offer a high performance, scalable building block approach to modern storage needs.

We just released the new DSS-G solution using SR650 V2 and SR630 V2 servers (based on 3rd Gen Intel Xeon Scalable "Whitley" processors). We also announced updates that support 18TB drives in the D3284 External Storage Enclosure. With the new DSS G2A0 model, with 10x D3284 enclosures, that's a massive 15,084TB of storage!

Details in the product guides:

- [Lenovo Distributed Storage Solution for IBM Spectrum Scale \(DSS-G\) on ThinkSystem V2](#)
- [Lenovo Distributed Storage Solution for IBM Spectrum Scale \(DSS-G\) on ThinkSystem V1](#)



ThinkAgile VX updates

Lenovo ThinkAgile VX Series is our family of high-performance VMware vSAN-based hyperconverged offerings.



Figure 3. Lenovo ThinkAgile VX with 2.5-inch drive bays

At the end of October, Lenovo announced support for additional server components, including:

- Mellanox ConnectX-6 Lx, Dx, HDR100 and HDR Ethernet network adapters
- Mellanox ConnectX-4 Lx adapters
- Solarflare X2522-Plus Ethernet network adapter
- Intel S4520 and S4620 SATA SSDs
- Intel P5800X NVMe SSDs
- Samsung PM1733 NVMe SSDs
- Additional HBA support

On November 30, we also announced the following drive options for the VX systems with 3rd Gen Xeon processors:

- ThinkSystem Nytro 3732 Performance SAS 12Gb Hot Swap SSD family
- ThinkSystem S4520 Read Intensive SATA 6Gb Hot Swap SSD family
- ThinkSystem S4620 Mixed Use SATA 6Gb Hot Swap SSD family
- ThinkSystem U.2 PM1733 Entry NVMe PCIe 4.0 x4 Hot Swap SSD family

Details and specifics of support for each VX Series system can be found in these product guides:

- [Lenovo ThinkAgile VX2330, VX3330, VX3331 and VX7330-N 1U Appliances and Certified Node \(Intel Xeon SP Gen 3\)](#)
- [Lenovo ThinkAgile VX3530-G, VX5530, VX7530 and VX7531 2U Appliances and Certified Node \(Intel Xeon SP Gen 3\)](#)
- [Lenovo ThinkAgile VX2320, VX3320, VX7320-N 1U Appliances and VX 1U Certified Node \(Intel Xeon SP Gen 2\)](#)
- [Lenovo ThinkAgile VX3520-G, VX5520, VX7520 2U Appliances and VX 2U, VX 2U HANA Certified Nodes \(Intel Xeon SP Gen 2\)](#)

ThinkSystem DM Series updates

This month, we've announced the following updates to our ThinkSystem DM family of storage systems:

- New 3-year warranty models for the following:
 - DM3000H, DM5000F and DM5000H controller enclosures
 - DM120S, DM240S and DM600S expansion enclosures
- For customers in PRC, new ONTAP SAN Only bundles:
 - DM3000H, DM5000H
- New offerings to upgrade ONTAP SAN Only bundles to Unified Premium for the following:
 - DM3000H and DM5000H (PRC only)
 - DM5000F (Worldwide)
- New support for 10Gb transceiver option on all systems:
 - 10G SW Optical iSCSI SFP+ Module 1 pack, 4XF7A14919



Figure 4. Lenovo ThinkSystem DM3000H

DB610S FC Switch now with a lifetime warranty

The ThinkSystem DB610S 32Gb FC SAN Switch is a flexible Fibre Channel switch with 24 ports, each supporting up to 32 Gb/s connectivity.



Figure 5. Lenovo ThinkSystem DB610S 32Gb FC SAN Switch

Lenovo now offers models of the DB610S with lifetime warranties which allows customers to get hardware support and access to FOS support until the end of life of the DB610S switch.

Details in the DB610S product guide:

- [Lenovo ThinkSystem DB610S Gen 6 FC SAN Switch](#)

New SSDs for ThinkSystem DE Storage Systems

The ThinkSystem DE SAN storage systems now support the following SSD drives:

- LFF drives for 2U12 enclosures:
 - Lenovo ThinkSystem DE Series 960GB 1DWD 2.5" SSD 2U12, 4XB7A74946
 - Lenovo ThinkSystem DE Series 1.92TB 1DWD 2.5" SSD 2U12, 4XB7A74947
- SFF drives for 2U24 enclosures:
 - Lenovo ThinkSystem DE Series 960GB 1DWD 2.5" SSD 2U24, 4XB7A74948
 - Lenovo ThinkSystem DE Series 1.92TB 1DWD 2.5" SSD 2U24, 4XB7A74951
- The drives are also available in packs of 12 drives for DE4000F and DE6000F systems



Figure 6. Lenovo ThinkSystem DE4000F 2U24 SFF enclosure

Learn more in the ThinkSystem DE product guides:

- [Lenovo ThinkSystem DE2000H Hybrid Storage Array](#)
- [Lenovo ThinkSystem DE4000H Hybrid Storage Array](#)
- [Lenovo ThinkSystem DE6000H Hybrid Storage Array](#)
- [Lenovo ThinkSystem DE4000F All Flash Storage Array](#)
- [Lenovo ThinkSystem DE6000F All Flash Storage Array](#)

ThinkSystem V2 updates

This month we've enhanced the functionality of our new ThinkSystem V2 servers, based on 3rd Gen Intel Xeon Scalable processors.



Figure 7. Family of ThinkSystem V2 servers

We added support for the following components in ThinkSystem V2 servers:

- [ThinkSystem ST650 V2](#)
 - ThinkSystem M.2 PM983 960GB NVMe PCIe 3.0 x4 Non-Hot Swap SSD
 - Support for SLES 15 SP3 and RHEL 8.4
- [ThinkSystem SR630 V2](#)
 - ThinkSystem 256GB TruDDR4 2933MHz (8Rx4 1.2V) 3DS RDIMM
 - New ThinkSystem RAID 940-16i 4GB Flash PCIe Gen4 12Gb Adapter
 - New ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb HBA
 - New ThinkSystem 440-8i SAS/SATA PCIe Gen4 12Gb HBA
 - New Intel P5800X Write Intensive NVMe SSDs
 - Solarflare X2522-Plus 10/25GbE SFP28 2-Port PCIe Ethernet Adapter
 - Emulex LPe36002 64Gb 2-port PCIe Fibre Channel Adapter
 - Support for SLES 15 SP3 and RHEL 8.4
- [ThinkSystem SR650 V2](#)
 - ThinkSystem 256GB TruDDR4 2933MHz (8Rx4 1.2V) 3DS RDIMM
 - New ThinkSystem RAID 940-16i 4GB Flash PCIe Gen4 12Gb Adapter
 - New ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb HBA
 - New ThinkSystem 440-8i SAS/SATA PCIe Gen4 12Gb HBA
 - New Intel P5800X Write Intensive NVMe SSDs
 - Solarflare X2522-Plus 10/25GbE SFP28 2-Port PCIe Ethernet Adapter
 - Emulex LPe36002 64Gb 2-port PCIe Fibre Channel Adapter
 - GPU support: RTX A6000, A30 and A100 80GB
 - Support for SLES 15 SP3 and RHEL 8.4
- [ThinkSystem SR670 V2](#)
 - ThinkSystem 128GB TruDDR4 3200 MHz (4Rx4 1.2V) 3DS RDIMM
 - New Intel P5800X Write Intensive NVMe SSDs
 - New GPU riser that allows the implementation of NVIDIA GPUDirect RDMA functionality
 - GPU support: A100 80GB and HGX A100 80GB
 - Support for SLES 15 SP3 and RHEL 8.4
- [ThinkSystem SD630 V2](#)
 - Intel Xeon Platinum 8368 38C 270W 2.4GHz Processor
 - ThinkSystem 32GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM
 - Micron 5300 M.2 SSDs
 - Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter
 - Support for SLES 15 SP3 and RHEL 8.4
- [ThinkSystem SN550 V2](#)
 - New Intel P5800X Write Intensive NVMe SSDs
 - Support for SLES 15 SP3 and RHEL 8.4

Additional drive options for ThinkSystem servers

This month, Lenovo announced the following drive options for ThinkSystem servers:

- New family of drive options, available in a 2.5-inch form factor:
 - [ThinkSystem PM893 Read Intensive SATA 6Gb HS SSD](#)
- New form factors for existing drive families - 7mm hot-swap, trayless and ST50-specific form factors:
 - [ThinkSystem S4520 Read Intensive SATA 6Gb SSD](#)
 - [ThinkSystem S4620 Mixed Use SATA 6Gb SSD](#)
- New 12TB, 14TB and 16TB HDD for SR655, replacing existing drive options
- Additional server support for the following drives in the following SSD families:
 - ThinkSystem 5300 Entry & Mainstream SED drives
 - ThinkSystem Nitro Performance SSDs
 - ThinkSystem PM1643a Entry SSDs
 - ThinkSystem PM1645a Mainstream SSDs
 - ThinkSystem PM1733 Entry NVMe SED drives
 - ThinkSystem CM6-R Entry NVMe drives
 - ThinkSystem S4520 Read Intensive SSDs
 - ThinkSystem S4620 Mixed Use SSDs

See the ThinkSystem server product guides for the specifics of server support or consult these references:

- [ThinkSystem SSD Portfolio Comparison](#)
- [ThinkSystem HDD Reference](#)



Figure 8. Lenovo ThinkSystem 2.5" PM893 Read Intensive SATA 6Gb Hot Swap SSD

Expanded RAID adapter/HBA support

The following RAID adapters and HBA have been announced this month, with support in most of the servers in the ThinkSystem portfolio:

- ThinkSystem 440-8i SAS/SATA PCIe Gen4 12Gb HBA, 4Y37A78601
- ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb HBA, 4Y37A78602
- ThinkSystem RAID 940-16i 4GB Flash PCIe Gen4 12Gb Adapter, 4Y37A78600

We are also expanding support of the following existing adapters:

- ThinkSystem RAID 940-8i 4GB Flash PCIe Gen4 12Gb Adapter, 4Y37A09728
- ThinkSystem RAID 940-8i 8GB Flash PCIe Gen4 12Gb Adapter, 4Y37A09729
- ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Adapter, 4Y37A09730
- ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Internal Adapter, 4Y37A09735
- ThinkSystem RAID 940-32i 8GB Flash PCIe Gen4 12Gb Adapter, 4Y37A09733

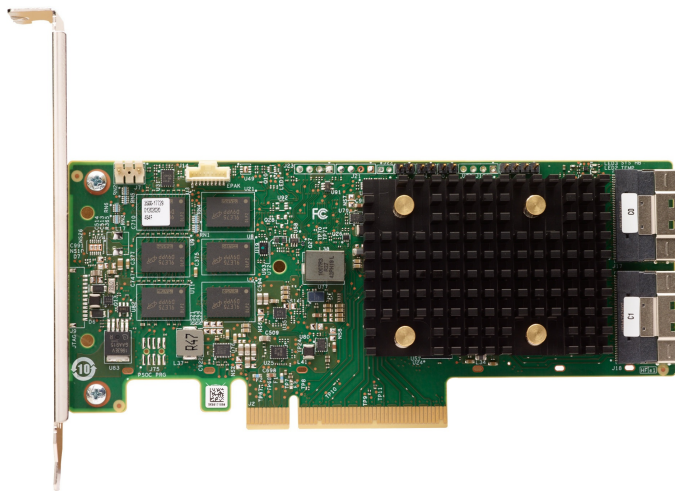


Figure 9. ThinkSystem RAID 940-16i Flash PCIe Gen4 12Gb Adapter

Details about these adapters, including server support, can be found in the adapter product guides:

- [Lenovo ThinkSystem 440 Series Internal SAS HBAs](#)
- [Lenovo ThinkSystem RAID 940 Series Internal RAID Adapters](#)

The various server product guides have also been updated to include the new option kits that enable field upgrades to configurations that use these adapters. Customers in EMEA also have access to preconfigured models of servers with these adapters installed.

SUSE Rancher

If your organization is deploying Kubernetes clusters to accelerate digital transformation, SUSE Rancher unifies these clusters to ensure consistent operations, workload management, and enterprise-grade security – from core to cloud to edge, and from any provider.

Rancher adds significant value on top of Kubernetes, first by centralizing authentication and role-based access control (RBAC) for all of the clusters, giving global admins the ability to control cluster access from one location.

SUSE Rancher can be ordered from Lenovo. See the SUSE Software Solution Product Guide for details: <https://lenovopress.com/lp1264-suse-software-solution-product-guide>

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