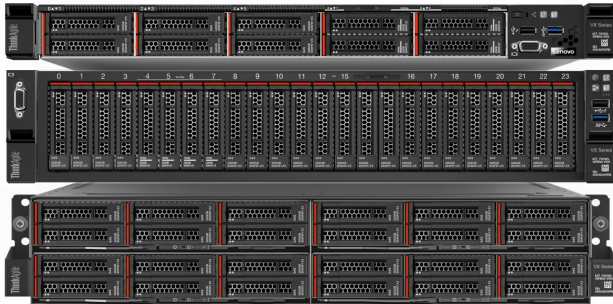


ThinkAgile VX Series

Simplify IT infrastructure and accelerate time-to-value



VX Series models above: VX3320 top, VX7520 middle and VX3720 bottom

vSAN Hyperconverged Architecture

Differentiating yourself from the competition is vital in today's fast-moving business environment. To support your business, IT systems must be simple, agile, and cost-effective so you can meet your customers' requirements to be ever online. Lenovo ThinkAgile VX Series enables you to meet these requirements by focusing on the business outcome you require, rather than on building your infrastructure.

ThinkAgile VX Series, powered by VMware vSAN, is available in several models. Each is preconfigured, pretested, and optimized to provide the simplest way to bring a new VMware hyperconverged environment online. If you have an existing VMware environment, the VX Series can integrate into it easily.

Designed for any size business from SMBs through large enterprises, VX Series can be used as infrastructure for remote office/branch office (ROBO) and retail stores as well as virtual desktop infrastructure (VDI) and enterprise applications.

Buying vs. Building Infrastructure

Typically, VMware vSAN installation is very much a do-it-yourself project. Customers must configure, test, debug, optimize, validate, etc., on their own. However, ThinkAgile VX Series eliminates all of that time and effort by completing those steps before it leaves the factory.

VX Series arrives with the hardware configured, software installed, and Lenovo professional services to integrate it into your environment. This makes VX Series easy to deploy and provides faster time-to-value and reduces your costs.

VX Series is simple to manage and operate. With compute, storage, and virtualization resources integrated into a single node, it enables you to dramatically simplify your infrastructure by pooling multiple sets of node resources into a single virtual structure for more efficient utilization and management. Plus, the infrastructure scales rapidly to meet the growing needs of your business. Solutions include next-generation Intel® Xeon® Processor Scalable family CPUs, with up to 36% total performance improvement compared to the previous generation.*

There is no need for expensive IT overprovisioning. You can wait until you actually need additional resources before you pay for them.

Lenovo™

Flexibility and Choice

ThinkAgile VX Series comes in a wide range of platforms and provides the flexibility to configure the system you need to meet any use-case. Both all-flash and hybrid platforms are supported.

- **VX 1000 Series**—General-purpose 1U 1-socket platform for small businesses and remote sites.
- **VX 2000 Series**—General-purpose 1U 1-node platform optimized small and medium businesses.
- **VX 3000 Series**—General-purpose 1U and 2U 1-node platform and 2U 4-node platform optimized for compute-heavy applications, such as VDI. The VX3520-G 2U 1-node platform is available with GPU hardware for accelerating graphics-intensive VDI deployments.
- **VX 5000 Series**—Storage-dense 2U 1-node platform optimized for long-term, high-capacity storage requirements
- **VX 7000 Series**—2U 1-node platform optimized for the highest-performance workloads, such as databases and collaboration.

Scalability and Performance

Based on Lenovo ThinkSystem platforms that incorporate powerful Intel® Xeon® processor Scalable family CPUs, VX Series allows you to start small, with as few as three nodes, and scale either by adding more storage capacity or by adding nodes one at a time. This enables you to scale capacity and performance easily and without disruption to day-to-day operations. All-flash models support inline de-duplication, compression, and encryption to give you an optimized, secure, high-performance platform with maximum usable capacity.

Fast Time-to-Business Use

All ThinkAgile platforms are delivered with Lenovo ThinkAgile Advantage. Lenovo Services will set up and configure your new solution and provide any training you need to get the system operational. Your VX Series will be up and running productively in hours instead of days or weeks.

Once your VX Series is deployed, you'll have the utmost in productivity. After all, ThinkSystem servers have already achieved 127 world record benchmarks. And dating back to 2001, Lenovo servers have achieved more than 300 world record results, demonstrating a history of performance innovation.

Greater Reliability

A successful hyperconverged solution requires reliable server platforms. Because servers perform both the compute and pooled-storage missions, uptime is more important than ever.

For the fifth year in a row, Lenovo servers achieved the #1 reliability rating of all x86 servers worldwide, according to the ITIC 2017-2018 Global Server Hardware and OS Reliability Survey.[†] The independent survey polled hundreds of global businesses and once again Lenovo servers came out ahead of all other x86 servers.

Not surprisingly, this high-reliability—coupled with the ease of use and high-performance of Lenovo servers—has consistently resulted in #1 ratings in TBR customer satisfaction surveys.[‡] In fact, in the latest survey, Lenovo servers finished #1 overall for the 10th consecutive time in North America and 4th straight in Asia Pacific. This can only happen when there is a history of sustained innovation in technologies that promote reliability and ease of use.

ThinkAgile Advantage Support

If you need support, Lenovo ThinkAgile Advantage gives you a direct phone line to a team of experts who support only ThinkAgile solutions. The experts will rapidly diagnose any hardware or software issues and remain with you as the single-point-of-contact throughout the entire support process.



Bottom Line

ThinkAgile VX Series enables you to simplify your IT infrastructure and drive down costs through the combination of preloaded easy-to-use software on powerful, extremely reliable hardware. All VX Series models are backed by world-class Lenovo services and support.

The perfect complement to the VX Series, Lenovo's comprehensive data center services portfolio spans the entire lifecycle of your Lenovo IT assets. Tailor your data center services to meet specific business needs and response-time targets with preconfigured support levels. Service options include assessment workshops, hardware installation, enterprise server software support, managed services, health checks, and more.

VX 1000 Series Specifications

The ThinkAgile VX 1000 Series models are available as a 1U form factor. The VX1000 series is an ideal 1-socket rack server for small businesses or remote sites that need industry-leading reliability, management, and security, as well as maximizing performance and flexibility for future growth.

Target Audience	Small businesses or remote sites
Model Name	VX1320
Form Factor	1U
Processor	1x Intel® Xeon® E processor, up to 6 cores @ 95W
Memory	Up to 64 GB using 4x 16GB UDIMMs; 2666MHz TruDDR4
PCIe	3x PCIe slots
Drive Bays	4x 3.5-inch simple or hot-swap SATA drives 4x 2.5-inch simple-swap SATA / SAS drives 10x 2.5-inch hot-swap SATA / SAS/SSD drives
Software Preloaded	VMware ESXi, vSAN
Systems Management	Single pane of glass with Lenovo XClarity Integrator for VMware vCenter. Integrated management offering for discovery, monitoring, firmware updates, configurations, and workload migration
License Options	VMware vSphere 6 Standard, Enterprise or Enterprise Plus with Operations Management; VMware vSAN Standard, Advanced, Enterprise; HCI Kit Advanced, HCI Kit Enterprise; 3- or 5-year support subscription
Warranty Support	3- or 5-year customer-replaceable unit and onsite service, next business day 9x5; optional service upgrades
Support	Lenovo ThinkAgile Advantage



VX 2000 Series Specifications

The ThinkAgile VX 2000 Series models are available as a 1U 1-node form factor. The VX2000 series is designed to provide optimum performance and capacity for small and medium-sized business.

Target Audience	Small and medium-sized businesses
Model Name	VX2320
Form Factor	1U
Processor	Up to 2x Intel® Xeon® Platinum processors, up to 165W
Memory (2933MHz TruDDR4)	Up to 3TB in 24x slots, using 128GB DIMMs
GPU	None
Drive Bays	4x 3.5-inch
Cache Drive Options	1x 400GB, 800GB, 1600GB
Number of Disk Groups	1
Storage Options	3x 2TB, 4TB, 6TB, 8TB, 10TB, 12TB HDDs
Software Preloaded	VMware ESXi, vSAN
Systems Management	Single pane of glass with Lenovo XClarity Integrator for VMware vCenter. Integrated management offering for discovery, monitoring, firmware updates, configurations, and workload migration.
License Options	VMware vSphere 6 Standard, Enterprise or Enterprise Plus with Operations Management; VMware vSAN Standard, Advanced, Enterprise; HCI Kit Advanced, HCI Kit Enterprise; 3- or 5-year support subscription
Warranty Support	3- or 5-year customer-replaceable unit and onsite service, next business day 9x5; optional service upgrades
Support	Lenovo ThinkAgile Advantage



VX 3000 Series Specifications

The ThinkAgile VX 3000 Series models are available as a 1U 1-node form factor, 2U 4-node form factor and a 2U form factor with GPUs. All VX 3000 Series models are engineered for compute-heavy workloads (business applications and VDI) and are available in all-flash and hybrid models.

Target Audience	Compute-heavy, high-performance virtualization, and VDI		
Model Name	VX3320	VX3720	VX3520-G
Form Factor	1U	2U 4-Node	2U
Processor	Up to 2x Intel® Xeon® Platinum processors, up to 165W	Up to 2x Intel® Xeon® Platinum processors, up to 165W	Up to 2x Intel® Xeon® Platinum processors, up to 150W with GPU
Memory (2933MHz TruDDR4)	Up to 3TB in 24x slots, using 128GB DIMMs	Up to 1TB in 16x slots, using 64GB DIMMs	Up to 3TB in 24x slots, using 128GB DIMMs
GPU	None	None	1 or 2 NVIDIA GPUs
Drive Bays	10x 2.5"	6x 2.5"	16x 2.5"
Cache Drive Options	1 or 2x 400GB, 800GB, 1600GB	1 or 2x 400GB, 800GB, 1600GB	1 or 2x 400GB, 800GB, 1600GB
Number of Disk Groups	1 or 2	1 to 3	1 to 4
Storage Options	HDDs: 1.2TB, 1.8TB, 2.4TB SSDs: 1.6TB, 3.84TB, 7.68TB	HDDs: 1.2TB, 1.8TB, 2.4TB SSDs: 1.6TB, 3.84TB, 7.68TB	HDDs: 1.2TB, 1.8TB, 2.4TB SSDs: 1.6TB, 3.84TB, 7.68TB
Software Preloaded	VMware ESXi, vSAN		
Systems Management	Single pane of glass with Lenovo XClarity Integrator for VMware vCenter. Integrated management offering for discovery, monitoring, firmware updates, configurations, and workload migration.		
License Options	VMware vSphere 6 Standard, Enterprise or Enterprise Plus with Operations Management; VMware vSAN Standard, Advanced, Enterprise; HCI Kit Advanced, HCI Kit Enterprise; 3- or 5-year support subscription		
Warranty Support	3-year customer-replaceable unit and onsite service, next business day 9x5; optional service upgrades		
Support	Lenovo ThinkAgile Advantage		

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US\$45 billion Fortune 500 company and a global technology leader in driving Intelligent Transformation. Lenovo's data center solutions (ThinkSystem, ThinkAgile) are creating the capacity and computing power that are changing business and society.



VX 5000 and VX 7000 Series Specifications

The 2U 1-node Lenovo VX 5000 Series model is engineered for storage-heavy workloads (Big Data/Analytics, email, etc.) and offers a high-capacity model. The 2U 1-node Lenovo VX 7000 Series model is engineered for high-performance workloads (for example, in-memory databases) and optimized for I/O-intensive operation.

Target Audience	Big Data/Analytics, email, large databases, and other high-capacity storage needs	High-performance workloads such as database, email and collaboration	Databases and other high-performance storage
Model Name	VX5520	VX7320-N	VX7520
Form Factor	2U	1U	2U
Processor	Up to 2x Intel® Xeon® Platinum processors, up to 165W		
Memory (TruDDR4)	Up to 3TB in 24x slots, using 128GB DIMMs 2933MHz		
Drive Bays	12x 3.5"	10x U.2 NVMe PCIe SSD	24x 2.5"
Number of Disk Groups	1x or 2x	1x or 2x	1x to 4x
Cache	1x or 2x 400GB, 800GB, 1600GB SSDs	1x 1600GB, 3200GB, 6400GB	Up to 4x 400GB, 800GB, 1600GB SSDs
Storage Options	HDDs: 6x 2TB, 4TB, 6TB, 8TB, 10TB, 12TB	SSDs: up to 7x 1.6TB, 3.2TB, 6.4TB	HDDs: up to 20x 1.2, 1.8, 2.4TB SSDs: 1.6TB, 3.84TB, 7.68TB
Software Preloaded	VMware ESXi, vSAN		
Systems Management	Single pane of glass with Lenovo XClarity Integrator for VMware vCenter. Integrated management offering for discovery, monitoring, firmware updates, configurations, and workload migration.		
License Options	VMware vSphere 6 Standard, Enterprise or Enterprise Plus with Operations Management; VMware vSAN Standard, Advanced, Enterprise; 3- or 5-year support subscription		
Warranty Support	3-year customer-replaceable unit and onsite service, next business day 9x5; opt. service upgrades		
Support	Lenovo ThinkAgile Advantage		

For More Information

To learn more about Lenovo ThinkAgile VX Series, contact your Lenovo representative or Business Partner or visit lenovo.com/thinkagile

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* Based on Intel® internal testing, August 2018. † ITIC Global Reliability Study, lenovopress.com/lp1117. ‡ TBR Customer Satisfaction Study, lenovopress.com/lp1118. § VMware vCenter available for purchase separately.

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