ThinkAgile HX Series

Hyperconverged (HCI) solutions to enable faster any hybrid multi-cloud any workload, any scale, all the time

Increase Your Freedom

Operating a data center increasingly involves complex tasks, such as managing multiple silos of servers, storage, networks, and mission-critical applications. Consequently, IT departments often spend most of their budget maintaining this infrastructure, instead of investing in new projects.

Lenovo ThinkAgile HX Series, a best-in-class hyperconverged system with Nutanix's industry-leading software preloaded on Lenovo platforms, dramatically simplifies data center management, frees up your IT staff, and accelerates your deployment, ultimately reducing your total ownership cost.

For 8 years running, Lenovo servers have ranked as the industry's most reliable x86 platforms, enabling you to run your workloads predictably, with maximum uptime. Enhanced with faster processors and memory, Lenovo platforms hold more than 294 current performance world records, so you can run your workloads with blazing-fast speed^. Lenovo XClarity, a fast and intuitive resource management tool, captures Lenovo proactive platforms, enabling administrators to replace a failing component while avoiding unplanned downtime.

Lenovo has engineered, tailored, and validated ThinkAgile HX designs for a wide range of business solutions, so that you have the freedom to run any workload, at any scale, all the time.

New refreshed HX series featuring the latest technological advancements in processing with 4th Gen processors from AMD processors is now available with more cores and greater GPU density.

Simplify Your IT

Since 2014, Lenovo and Nutanix have collaborated to help businesses simplify IT and shrink OPEX. ThinkAgile HX Series consolidates compute, storage, and virtualization software into a resource pool, easily managed in scale-out clusters through a single interface. The series ships from Lenovo as fully integrated and validated building blocks, and delivers extreme reliability, security, scalability, and simplified management. As a result, you can deploy applications faster, without the hassle, while gain up to 477% ROI over 5 years.

Use Nutanix Prism for one-click planning, provisioning, insights, and firmware updates to achieve faster, simpler IT operations. Leverage the time and cost-savings of ThinkAgile HX to enable your IT to focus on innovative solutions for your business enabling new levels of performance, higher workload consolidation and security for core, cloud and at the edge.

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Enjoy a Transformative Experience

Lenovo ThinkAgile Advantage provides end-to-end life cycle management for a seamless, simple customer experience for planning, deployment, and maintenance, including a 24/7 Single Point of Support. ThinkAgile HX Series also includes the option of shipping from Lenovo's factory in a rack, along with any combination of ThinkSystem servers, storage, and networking, which facilitates quick deployment of solutions based on validated HX reference architectures.

Now enhanced with even faster processors and memory, Lenovo platforms hold the highest number of performance world records so you can run your workloads at blazing-fast speed for accelerated outcomes. ThinkAgile HX Series models are optimized for a broad set of virtualized workloads for on premises or in the cloud, including ROBO, office applications, analytics, and in-memory databases. Deploy your HCI clusters rapidly and confidently with Lenovo.

ThinkAgile HX 1000 Series Appliance - Intel

The 1U 1-node ThinkAgile HX 1000 Series appliance is engineered for light-to-medium workloads (business applications and VDI), optimized for remote office/branch office (ROBO) environments.

Specifications

Model	HX1330 appliance, 1U form factor	HX1320 appliance, 1U form factor
Target Audience	Remote Office/Branch Office (ROBO)	
Processor	1x 3rd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 270W	1x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 205W
Memory	64GB - 2TB	64GB - 384GB
Drive Bays	4x 3.5″ + 2x 2.5″ (Optional)	4x 3.5″
SSD Options (Hybrid Config)	2x 1.6 TB, 1.92TB, 3.84TB, 7.68TB	2x 480GB, 800GB, 960GB, 1.92TB, 3.84TB, 7.68TB
HDD Options (Hybrid Config)	2x or 4x 4TB, 6TB, 8TB, 10TB, 12TB, 16TB	2x 4TB, 6TB, 8TB, 10TB, 12TB, 16TB
SSD Options (All-Flash Config)	2x, 4x or 6x 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x or 4x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB
GPU	0-1x single wide	Not supported
10GBASE-T/10GbE SFP+ Ports	2-6	2-6
25GbE SFP28 Ports	0-4	0-4
Hypervisors Supported	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload)	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload), Microsoft Hyper-V 2016
Systems Management	Hardware management via Lenovo XClarity Software management through Nutanix Prism Firmware upgrade via Nutanix Life Cycle Manager (LCM)	
License Options	Nutanix New Packaging & Pricing (PnP)	
Deployment Services	Lenovo Professional Deployment services available	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty, ThinkAgile Advantage Single Point of Support where available	

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ThinkAgile HX 2000 Series Appliance - Intel

ThinkAgile HX 2000 Series appliances are available in 1U 1-node form factors, optimized for small and medium businesses (SMBs).

Specifications

Model	HX2330 appliance, 1U form factor	HX2320 appliance, 1U form factor
Target Audience	Small and Medium Businesses	
Processor	2x 3rd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 270W	2x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 205W
Memory	64GB - 4TB	96GB - 1.5TB
Drive Bays	4x 3.5" + 2x 2.5" (Optional)	4x 3.5"
SSD Options (Hybrid Config)	2x 1.92TB, 3.84TB, 7.68TB	2x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
HDD Options (Hybrid Config)	2x or 4x 4TB, 6TB, 8TB, 10TB, 12TB, 16TB	0-2x 1TB, 2TB, 4TB, 6TB, 8TB, 10TB, 12TB, 16TB
SSD Options (All-Flash Config)	2x, 4x or 6x 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x or 4x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
GPU	0-2x single wide	Not supported
10GBASE-T/10GbE SFP+ Ports	2-6	2-8
25GbE SFP28 Ports	0-6	0-6
Hypervisors Supported	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload)	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload), Microsoft Hyper-V 2016
Systems Management	Hardware management via Lenovo XClarity Software management through Nutanix Prism Firmware upgrade via Nutanix Life Cycle Manager (LCM)	
License Options	Nutanix New Packaging & Pricing (PnP)	
Deployment Services	Lenovo Professional Deployment services available	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty; ThinkAgile Advantage Single Point of Support where available	

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ThinkAgile HX 3000 Series Appliance - Intel

ThinkAgile HX 3000 Series appliances featuring the latest Intel Xeon Scalable processors are available in 1U 1-node, 2U 1-node, and 2U 4-node form factors. These appliances are engineered for compute-heavy workloads (business applications and VDI) and offer rack-dense and GPU (-G) models.

Specifications

Model	HX3330 (+ SAP HANA)	HX3320 (+ SAP HANA)	HX3520-G	HX3720
Workloads	General virtualization and VDI			
Form Factor	1U	1U	2U	2U 4-node
Processor	2x 3rd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 250W	2x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 205W	2x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 165W	2x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 140W
Memory	64GB - 4TB	128GB - 3TB	128GB - 1.5TB	192GB - 768GB
Drive Bays	10x-12x 2.5″	10x-12x 2.5″	8x-16x 2.5″	6x 2.5″
SSD Options (Hybrid Configs)	2x-4x 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-4x 480GB, 800GB, 960GB 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-4x 480GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB
HDD Options (Hybrid Configs)	4-10x 1TB, 2TB, 2.4TB	4-10x 1TB, 2TB, 2.4TB	6-14x 1TB, 2TB, 2.4TB	4x 1TB, 2TB, 2.4TB
SSD Options (All-Flash Configs)	2x-12x 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-12x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-16x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-6x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB
NVMe Options (All-Flash Configs)	2x,10x, 12x 1.6TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB	0, 2, or 4x 1.6TB, 3.2TB,3.84TB, 6.4TB	None	None
GPU Options	0-2x single wide	None	0-2x NVIDIA P40, V100, M60, M10; 0-5x NVIDIA T4	None
10GBASE-T/10GbE SFP+ Ports	0-6	2-10	2-10	2-4
25GbE SFP28 Ports	0-6	0-6	0-6	0-2
Hypervisors Supported	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload)	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload), Microsoft Hyper-V 2016		
Systems Management	Hardware management via Lenovo XClarity Software management through Nutanix Prism Firmware upgrade via Nutanix Life Cycle Manager (LCM)			
License Options	Nutanix New Packaging & Pricing (PnP)			
Deployment Services	Lenovo Professional Deployment services available			
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty, ThinkAgile Advantage Single Point of Support where available			

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ThinkAgile HX 5000 Series Appliances - Intel

The 2U 1-node ThinkAgile HX 5000 Series appliances are engineered for storage-heavy workloads (Big Data and enterprise applications) and offer a high-capacity model. The 2U and 4U 1-node ThinkAgile HX 7000 Series appliances are engineered for high-performance and mission-critical workloads (enterprise applications and in-memory databases (such as SAP HANA) and optimized for I/O intensive operation.

Specifications

Model	HX5530	HX5520
Workloads	Big Data and High Capacity	
Form Factor	2U	2U
Processor	2x 3rd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 220W	2x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 165W
Memory	64GB - 4TB	128GB - 3TB
Drive Bays	12x 3.5" + 4x 2.5" (optional)	12x or 14x 3.5"
SSD Options (Hybrid Config)	2x-6x, 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-6x 480GB, 800GB, 960GB, 1.92TB, 3.84TB, 7.68TB
HDD Options (Hybrid Config)	6x-12x 4TB, 6TB 6x-10x 8TB 8x 10TB, 12TB, 16TB	6x-12x 4TB, 6TB 6x-10x 8T 8x 10TB, 12TB, 16TB
SSD Options (All-Flash Config)	2x-16x 1.6TB, 1.92TB, 3.84TB, 7.68TB	6x-14x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB
NVMe Options (All-Flash Config)	None	None
GPU Options	0 - 6x single wide or 2x double wide	Not supported
10GBASE-T/10GbE SFP+ Ports	0-10	2-10
25GbE SFP28 Ports	0-16	0-8
Hypervisors Supported	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload)	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload), Microsoft Hyper-V 2016
Systems Management	Hardware management via Lenovo XClarity Software management through Nutanix Prism Firmware upgrade via Nutanix Life Cycle Manager (LCM)	
License Options	Nutanix New Packaging & Pricing (PnP)	
Deployment Services	Lenovo Professional Deployment services available	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty, ThinkAgile Advantage Single Point of Support where available	

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ThinkAgile HX 7000 Series Appliances - Intel

The 2U and 4U 1-node ThinkAgile HX 7000 Series appliances are engineered for high-performance and mission-critical workloads (enterprise applications and in-memory databases (such as SAP HANA) and optimized for I/O intensive operation.

Specifications

Model	HX7530 (+ SAP HANA)	HX7520 (+ SAP HANA)	HX7820 (+ SAP HANA)
Workloads	High Performance and Databases		Mission-Critical Workloads
Form Factor	2U	2U	4U
Processor	2x 3rd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 270W	2x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 205W	4x 2nd Gen Intel® Xeon® Silver, Gold, or Platinum processor, up to 205W
Memory	64GB - 4TB	192GB - 3TB	384GB - 6TB
Drive Bays	24x 2.5″	24x 2.5″	24x 2.5″
SSD Options (Hybrid Config)	24x-8x 1.6TB, 1.92TB, 3.84TB, 7.68TB	4x-8x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	Up to 8x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB
HDD Options	8x-20x 1TB, 2TB, 2.4TB	12x-20x 1TB, 2TB, 2.4TB	Up to 20x 1TB, 2TB, or 2.4TB 2.5″
SSD Options (All-Flash Config)	4x-24x 1.6TB, 1.92TB, 3.84TB, 7.68TB	12x-24x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	Up to 24x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB
NVMe Options (All-Flash Config)	0, 2x or 4x 1.6TB, 3.2TB, 6.4TB, 7.68TB	0, 2x or 4x 1.6TB, 3.2TB, 6.4TB	
GPU	0 - 7x single wide or 2x double wide	Not supported	Not supported
10GBASE-T/10GbE SFP+ Ports	0-10	2-10	2-10
25GbE SFP28 Ports	0-16	0-8	0-8
Hypervisors Supported	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload)	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload), Microsoft Hyper-V 2016	
Systems Management	Hardware management via Lenovo XClarity Software management through Nutanix Prism Firmware upgrade via Nutanix Life Cycle Manager (LCM)		
License Options	Nutanix New Packaging & Pricing (PnP)		
Deployment Services	Lenovo Professional Deployment services available		
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty, ThinkAgile Advantage Single Point of Support where available		

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ThinkAgile HX AMD 1U Series Integrated Systems

The ThinkAgile HX AMD 1U Series appliance, featuring the latest AMD EPYC processors, is available in a rack-dense 1U 1-node form-factor. It is packed with high memory and core density, making it perfect for virtual desktop infrastructure (VDI), general virtualization workloads (business applications) and ROBO.

Specifications

Model	HX3375 appliance, 1U form factor	HX645 V3 Integrated System, 1U form factor
Workloads	General Virtualization and Virtual Desktop Infrastructure (VDI)	General Virtualization and Virtual Desktop Infrastructure (VDI), ROBO
Processors	1x or 2x AMD EPYC™ 7002 / 7003 Series Processors, up to 64 cores, 240W	2x AMD EPYC™ 9004 Series Processors, up to 96 cores, 360W
Memory	64GB - 4TB	64GB - 6TB
Drive Bays	Up to 12x 2.5" drives Up to 4x NVMe drives (requires 2 CPUs)	Up to 10x 2.5" + 2x 2.5" drives Up to 4x NVMe drives (requires 2 CPUs)
SSD Options (Hybrid Config)	2x-4x 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	No hybrid config support
HDD Options (Hybrid Config)	4x-10x 1TB, 2TB, 2.4TB	No HDD support
SSD Options (All-Flash Config)	4x-12x 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-12x 960GB, 1.92TB, 3.84TB, 7.68TB
NVMe Options (All-Flash Config)	2x-12x 960GB, 1.92TB, 3.84TB, 7.68TB	0, 2, or 4x 1.6TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB, 15.36TB
10/25GbE SFP28 Ports	0-6	2-4 25Gb ports via OCP + optional PCIe adapters
Hypervisors Supported	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload)	
Systems Management	Hardware management via Lenovo XClarity Software management through Nutanix Prism Firmware upgrade via Nutanix Life Cycle Manager (LCM)	
License Options	Nutanix New Packaging & Pricing (PnP)	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty	

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ThinkAgile HX AMD 2U Series Integrated Systems

The ThinkAgile HX AMD 2U Series Integrated Systems, featuring the latest AMD EPYC processors, is available in a rack-dense 2U 1-node form-factor. It is packed with high memory, dense storage and core density, making it perfect for mission critical workloads – Database & Enterprise applications, AI/ML, Development & Test & Data Protection.

Specifications

Model	HX665 V3 Storage Integrated System, 2U form factor	HX665 V3 Integrated System, 2U form factor
Workloads	File & Object Storage, Data Protection, Development & Test	VDI, Database & Enterprise Application, Development & Test, AI/ML, Messaging, Collaboration and Unified Communications
Processors	1x or 2x AMD EPYC™ 9004 Series Processors, up to 96 cores, 360W	2x AMD EPYC™ 9004 Series Processors, up to 96 cores, 360W
Memory	64GB - 6TB	64GB - 6TB
Drive Bays	Up to 12x 3.5"+4x 2.5" drives	Up to 24x 2.5" drives
SSD Options (Hybrid Config)	2x-4x, 1.6TB, 1.92TB, 3.84TB, 7.68TB	No hybrid config support
HDD Options (Hybrid Config)	4x-12x 4TB, 6TB, 8TB 8x 10TB, 12TB, 16TB, 20TB	No HDD support
SSD Options (All-Flash Config)	2x-12x 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-16x 1.92TB, 3.84TB, 7.68TB
NVMe Options (All-Flash Config)	None	0, 2, or 4x 1.6TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB, 15.36TB
10/25GbE SFP28 Ports	2-4 25Gb ports via OCP + optional PCIe adapters	2-4 25Gb ports via OCP + optional PCIe adapters
Hypervisors Supported	Nutanix Acropolis Hypervisor (preloaded), VMware ESXi (optional preload)	
Systems Management	Hardware management via Lenovo XClarity Software management through Nutanix Prism Firmware upgrade via Nutanix Life Cycle Manager (LCM)	
License Options	Nutanix New Packaging & Pricing (PnP)	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty	

Bottom Line

Lenovo ThinkAgile HX Series appliances, powered by Intel® Xeon® processors, enable 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 ThinkAgile HX Series models are backed by world-class Lenovo services and support.

ThinkAgile Advantage: Personalized Support

ThinkAgile Advantage, in available countries, provides a first-class support experience to make the most of your ThinkAgile products and solutions. You'll skip the wait and connect directly with skilled technicians through your own dedicated phone line for real-time triaging and troubleshooting.
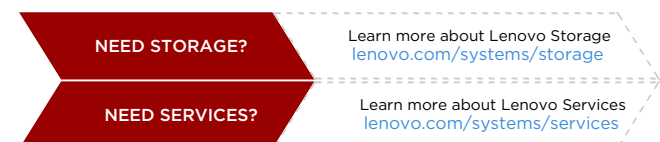
As a single point of contact, your dedicated Lenovo specialist will own your support case end-to-end, ensuring a faster and more seamless resolution. You'll also enjoy faster time to productivity and reduced system disruption, thanks to the plan's hardware and software deployment benefit from the Lenovo Professional Services team.

For More Information

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

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US$70 billion revenue global technology powerhouse, ranked #159 in the Fortune Global 500, employing 75,000 people around the world, and serving millions of customers every day in 180 markets. Focused on a bold vision to deliver smarter technology for all, Lenovo is expanding into new growth areas of infrastructure, mobile, solutions and services. This transformation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.

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† ITIC Global Reliability Study.

^ Lenovo Continues to Lead the Industry in Customer Performance and Value

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