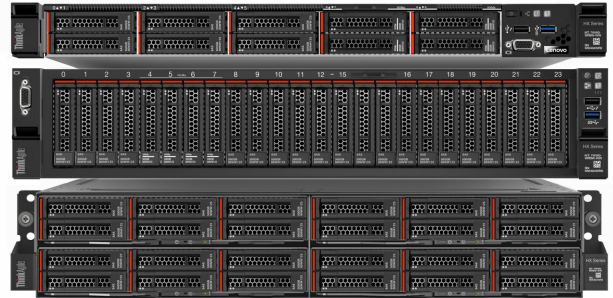


# ThinkAgile HX Series

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.

Lenovo platforms continue to be the industry's #1 most reliable<sup>†</sup>, with the industry's highest customer satisfaction<sup>‡</sup> rating, so that you can run your workloads predictably, with maximum uptime. Lenovo XClarity, a fast and intuitive resource management tool, captures Lenovo proactive platforms, enabling administrators to replace a failing component while avoiding unplanned downtime.

ThinkAgile Network Orchestrator, an industry-first integration between Lenovo switches and Prism, reduces error and downtime by automating switch configuration.

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.

## 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 dramatically reducing your total cost of ownership by up to 2.8x.\*

Use Nutanix Prism for one-click planning, provisioning, insights, and firmware updates to achieve faster, simpler IT operations. A Lenovo-Nutanix innovation, the ThinkAgile XClarity Integrator for Nutanix, available from the Nutanix Calm marketplace, can be used in concert with Prism for comprehensive management and reduced manual entry. Leverage the time and cost-savings of ThinkAgile HX to enable your IT to focus on innovative solutions for your business.

Lenovo™

## 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 Appliance

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

	<b>Remote Office/Branch Office (ROBO) and Replication Target</b>
Model Name	HX1320
Form Factor	1U
Processor	1x second-generation Intel® Xeon® Gold processor, up to 85W
Memory (TruDDR4 2933MHz)	64GB, 96GB, 128GB, 192GB, 256GB, 384GB
Drive Bays	4x 3.5"
SSD Options (Hybrid)	2x 480GB, 960GB, 1.92TB, 3.84TB
SSD Options (Flash)	2x or 4x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
HDD Options	2x 4TB, 6TB, 8TB, 10TB
10GBASE-T Ports	2-6
10GbE SFP+ Ports	2-6
25GbE SFP28 Ports	0-2
Hypervisors Preloaded	Nutanix Acropolis Hypervisor, VMware ESXi
Hypervisors Supported	Nutanix Acropolis Hypervisor; VMware ESXi, Microsoft Hyper-V 2016**
Systems Management	Hardware management via Lenovo XClarity or ThinkAgile XClarity Integrator for Nutanix, and software management via Nutanix Prism
License Options	Nutanix Starter, Pro and Ultimate Licenses
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



## ThinkAgile HX 2000 Appliance

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

### Specifications

	<b>Small and Medium Businesses</b>
Model Name	HX2320 appliance, 1U form factor
Processor	2x second-generation Intel® Xeon® Silver and Gold processors, up to 85W
Memory (TruDDR4 2933MHz)	96GB, 192GB, 256GB, 384GB, 512GB, 576GB, 768GB, 1024GB, 1.5TB
Drive Bays	4x 3.5"
SSD Options (Hybrid)	2x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
SSD Options (Flash)	2x or 4x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
HDD Options	0-2x 1TB, 2TB, 4TB, 6TB, 8TB, 10TB
10GBASE-T Ports	2-6
10GbE SFP+ Ports	2-6
25GbE SFP28 Ports	0-2
Hypervisors Preloaded	Nutanix Acropolis Hypervisor; optional VMware ESXi
Hypervisors Supported	Nutanix Acropolis Hypervisor; VMware ESXi, Microsoft Hyper-V 2016**
Systems Management	Software management via Nutanix Prism, hardware management via Lenovo XClarity and Lenovo XClarity Integrator for Nutanix
License Options	Nutanix Starter, Pro, or Ultimate
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



## ThinkAgile HX 3000 Appliance

ThinkAgile HX 3000 Series appliances are available in 1U 1-node, 2U 1-node, and 2U 4-node form factors. All HX 3000 Series models are engineered for compute-heavy workloads (business applications and VDI) and offer rack-dense, all-flash (-F) and GPU (-G) models.

### Specifications

	General virtualization and VDI		
Model Name	HX3320	HX3520-G	HX3720
Form Factor	1U	2U	2U 4-node
Processor	2x second-generation Intel® Xeon® Platinum processors, up to 205W	2x second-generation Intel Xeon Platinum processors, up to 150W	2x second-generation Intel Xeon Platinum processors, up to 140W
Memory (TruDDR4 2933MHz)	128GB, 192GB, 256GB, 384GB, 512GB, 576GB, 768GB, 1.5TB, 3TB	128GB, 192GB, 256GB, 384GB, 512GB, 576GB, 768GB, 1.5TB, 3TB	192GB, 384GB, 512GB, 768GB
Drive Bays	10x-12x 2.5"	8x-16x 2.5"	6x 2.5"
SSD Options (Hybrid)	2x-4x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB	2x-4x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB	2x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
SSD Options (Flash)	6x-12x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB	8x-16x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB	4x-6x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
HDD Options (Hybrid)	4-10x 1TB, 2TB, 2.4TB	6-14x 1TB, 2TB, 2.4TB	4x 1TB, 2TB, 2.4TB
GPU Options	None	0-2x NVIDIA P40 0-2x NVIDIA M60 0-2x NVIDIA M10	None
10GBASE-T Ports	2-8	2-8	2-4
10GbE SFP+ Ports	2-8	2-8	2-4
25GbE SFP28 Ports	0-4	0-4	0-2
Hypervisors Preloaded	Nutanix Acropolis Hypervisor, optional VMware ESXi		
Hypervisors Supported	Nutanix Acropolis Hypervisor; VMware ESXi, Microsoft Hyper-V 2016**		
Systems Management	Hardware management via Lenovo XClarity or ThinkAgile Integrator for Nutanix, and software management via Nutanix Prism		
License Options	Nutanix Starter, Pro and Ultimate Licenses		
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		



## ThinkAgile HX 5000 and HX 7000 Appliances

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, including SAP HANA) and optimized for I/O intensive operation.

### Specifications

	Big Data and High Capacity	High Performance and Databases	Mission-Critical Workloads
Model Name	HX5520	HX7520	HX7820 (including <a href="#">SAP HANA solution</a> )
Form Factor	2U	2U	4U
Processor	2x second-generation Intel® Xeon® Platinum processors, up to 165W	2x second-generation Intel Xeon Platinum processors, up to 165W	4x second-generation Intel Xeon Platinum processors, up to 205W
Memory (TruDDR4 2400MHz)	128GB, 192GB, 256GB, 384GB, 512GB, 768GB, 1.5TB, 3TB	256GB, 384GB, 512GB, 768GB, 1.5TB, 3TB	768GB, 1.5TB, 3TB, 6TB
Drive Bays	12x-14x 3.5"	24x 2.5"	Up to 24x 2.5"
SSD Options (Hybrid)	2x-6x 480GB, 960GB, 1.92TB, 3.84TB	4x-8x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB	Up to 20x 1TB, 2TB, or 2.4TB
SSD Options (Flash)	6x-14x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB	12x-24x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB	Up to 24x 480GB, 800GB, 960GB, 1.6TB, 1.92TB, 3.84TB
HDD Options	6x-12x 4TB, 6TB 6x-10x 8TB 8x 10TB	12x-20x 1TB, 2TB, 2.4TB	Up to 20x 1TB, 2TB, or 2.4TB 2.5"
10GBASE-T Ports	2-8	2-8	2-12
10GbE SFP+ Ports	2-8	2-8	12
25GbE SFP28 Ports	0-4	0-4	0-8
Hypervisors Preloaded	Nutanix Acropolis Hypervisor; optional VMware ESXi		
Hypervisors Supported	Nutanix Acropolis Hypervisor; VMware ESXi, Microsoft Hyper-V 2016**		
Systems Management	Hardware management via Lenovo XClarity or ThinkAgile XClarity Integrator for Nutanix, and software management via Nutanix Prism		
License Options	Nutanix Starter, Pro and Ultimate Licenses		
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		



## 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

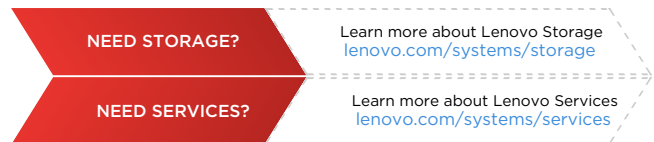
To learn more about Lenovo ThinkAgile HX Series Appliances, contact your Lenovo representative or Business Partner or visit [lenovo.com/thinkagile](http://lenovo.com/thinkagile).

## Previously Announced Models

For information about the previously announced (Intel Xeon E5 v4 processor-based) models, visit the [HX Series web page](#).

## 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.



† [ITIC 2018 Global Reliability Report](#). ‡ [TBR x86-based Servers Report 2018](#).

\* Visit [bit.ly/2AqcBbn](http://bit.ly/2AqcBbn) for more information. \*\* Microsoft Hyper-V 2016 support available in the first half of 2019.

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