



ThinkAgile HX Certified Nodes

Rapidly and confidently deploy HCI clusters

Optimize Your HCI Deployment

When it comes to hyperconverged deployments, Lenovo offers flexibility so that customers can choose the model that best suits their business needs.

Since 2014, Lenovo has collaborated with Nutanix to offer ThinkAgile HX Series, a best-in-class turnkey hyperconverged system that integrates, validates, and optimizes Nutanix's industry-leading software with Lenovo's highly reliable platforms — including white-glove Lenovo deployment services.

ThinkAgile HX integrated systems include Nutanix PnP licenses which include 3 years, 4 years, or 5 years of support and subscription with Lenovo hardware. For customers who prefer to provide their own Nutanix software licenses, Lenovo offers another choice: the ThinkAgile HX Certified Node, which includes:

- Fully validated configured and integrated hardware and firmware, certified with Nutanix software
- Preloaded Nutanix software for ready deployment, Nutanix term license obtained separately
- Flexibility to bring your own Nutanix term-based license, transferable to other HX certified nodes
- Flexibility to provide your own deployment services or optionally use Lenovo Deployment Services

Increase Simplicity and Uptime

ThinkAgile HX consolidates compute, storage, and virtualization software into simple building blocks, easily managed in scale-out clusters through a single interface. Achieve even simpler IT operations by using Nutanix Prism for one-click provisioning, insights, and firmware updates. Lenovo XClarity, a fast and intuitive resource management tool, can be used in concert with Prism.

A successful hyperconverged deployment depends on reliable servers that ensure your business-critical workloads run without interruption. For 9 years running, Lenovo servers have ranked as the industry's most reliable x86 platforms. 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. New refreshed HX series featuring the latest technological advancements in processing with 5th generation processors from Intel and 4th generation processors from AMD is now available with more cores and greater GPU density.

With ThinkAgile HX Certified Nodes, you have the freedom to bring your own Nutanix term-based licenses while leveraging outstanding Lenovo reliability and performance plus Nutanix simplicity. Deploy your HCI clusters rapidly and confidently with Lenovo.



ThinkAgile HX 1U Eagle Stream Certified Nodes - Intel

The 1U 1-node ThinkAgile HX 1U Eagle Stream Certified Nodes is engineered for light-to-compute heavy workloads like business applications, VDI, optimized for remote office/branch office (ROBO) environments & databases.

Specifications

Model	HX630 V3 ROBO Certified Nodes, 1U form factor	HX630 V3 Certified Nodes for SAP HANA, 1U form factor	HX630 V3 Certified Nodes, 1U form factor
Target Audience	Remote Office/Branch Office (ROBO)	Small and Medium Businesses	Small and Medium Businesses
Processor	1-2x 4th and 5th* Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 350W	2x 4th Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 350W	2x 4th and 5th* Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 350W
Memory	64GB - 4TB	256GB - 8TB	64GB - 8TB
Drive Bays	4x 3.5" + 2x 2.5" (Optional)	10x 2.5" + 2x 2.5" (Optional)	10x 2.5" + 2x 2.5" (Optional)
Hybrid Configuration	SSD: 2x 1.6 TB, 1.92TB, 3.84TB, 7.68TB HDD: 2-4x 4TB, 6TB, 8TB, 10TB, 12TB, 16TB, 20TB	Not applicable	Not applicable
All-Flash Configuration	SAS/SATA: 2-4x 1.6TB, 1.92TB, 3.84TB, 7.68TB	SAS/SATA: 2-12x 1.6TB, 1.92TB, 3.84TB, 7.68TB NVMe: 1.6TB, 1.92TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB, 15.36TB	SAS/SATA: 2-12x 1.6TB, 1.92TB, 3.84TB, 7.68TB NVMe: 1.6TB, 1.92TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB, 15.36TB
10GBASE-T	2-4	2-8	2-8
25GbE SFP28 Ports	2-4	2-8	2-8
GPU	Up to 2x single-wide GPUs	No GPU Support	Up to 3x single-wide GPUs
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)		
Deployment Services	Lenovo Professional Deployment services available		
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty		

*The platform is available for early orderability only with delivery and support available in 2H of CY2024. For more details please reach out to your local Lenovo representative.

ThinkAgile HX 2U Eagle Stream Certified Nodes - Intel

The 2U 1-node ThinkAgile HX 2U Eagle Stream Certified Nodes is engineered for in memory databases, analytics, AI/ML, VDI, mission critical workloads.

Specifications

Model	HX650 V3 Storage Certified Nodes, 2U form factor	HX650 V3 Certified Nodes for SAP HANA, 2U form factor	HX650 V3 Certified Nodes, 2U form factor
Target Audience	Big Data and High Capacity	Mission critical workloads	Mission critical workloads
Processor	2x 4th and 5th* Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 350W	2x 4th Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 350W	2x 4th and 5th* Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 350W
Memory	64GB - 8TB	256GB - 8TB	64GB - 8TB
Drive Bays	12x 3.5"+4x 2.5" (Optional)	24x 2.5"	24x 2.5"
Hybrid Configuration	SSD: 2-12x 1.6 TB, 1.92TB, 3.84TB, 7.68TB HDD: 4-12x 4TB, 6TB, 8TB, 10TB, 12TB, 16TB, 20TB	Not applicable	Not applicable
All-Flash Configuration	SAS/SATA: 2-12x 1.6TB, 1.92TB, 3.84TB, 7.68TB	SAS/SATA: 4-24x 1.6TB, 1.92TB, 3.84TB, 7.68TB NVMe: 2-8x 1.6TB, 1.92TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB, 15.36TB	SAS/SATA: 4-24x 1.6TB, 1.92TB, 3.84TB, 7.68TB NVMe: 2-8x 1.6TB, 1.92TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB, 15.36TB
10GBASE-T	2-12	2-12	2-12
25GbE SFP28 Ports	2-12	2-12	2-12
GPU	No GPU Support	No GPU Support	Up to 3x double-wide GPUs Up to 8x single-wide GPUs
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)		
Deployment Services	Lenovo Professional Deployment services available		
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty		

*The platform is available for early orderability only with delivery and support available in 2H of CY2024. For more details please reach out to your local Lenovo representative.

ThinkAgile HX 1U Icelake Certified Nodes - Intel

The 1U 1-node ThinkAgile HX 1U Icelake Certified Nodes is engineered for light-to-compute heavy workloads like business applications, VDI, optimized for remote office/branch office (ROBO) environments & databases.

Specifications

Model	HX1331 Certified Nodes, 1U form factor	HX2331 Certified Nodes, 1U form factor	HX3331 Certified Nodes, 1U form factor
Target Audience	Remote Office/Branch Office (ROBO)	Small and Medium Businesses	General virtualization and VDI
Processor	1x 3rd Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 270W	2x 3rd Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 270W	2x 3rd Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 250W
Memory	64GB - 2TB	64GB - 4TB	64GB - 4TB
Drive Bays	4x 3.5" + 2x 2.5" (Optional)	4x 3.5" + 2x 2.5" (Optional)	10x-12x 2.5"
SSD Options (Hybrid Config)	2x 1.6 TB, 1.92TB, 3.84TB, 7.68TB	2x 1.92TB, 3.84TB, 7.68TB	2x-4x 1.6TB, 1.92TB, 3.84TB, 7.68TB
HDD Options (Hybrid Config)	2x or 4x 4TB, 6TB, 8TB, 10TB, 12TB, 16TB	2x or 4x 4TB, 6TB, 8TB, 10TB, 12TB, 16TB	4-10x 1TB, 2TB, 2.4TB
SSD Options (All-Flash Config)	2x, 4x or 6x 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x, 4x or 6x 1.6TB, 1.92TB, 3.84TB, 7.68TB	2x-12x 1.6TB, 1.92TB, 3.84TB, 7.68TB
All-NVMe Options	none	none	2x,10x, 12x 1.6TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB
GPU	0-1x single wide	0-2x single wide	0-2x single wide
10GBASE-T	2-6	2-6	2-6
25GbE SFP28 Ports	2-4	2-6	2-6
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	Life of device (LOD) license		
Deployment Services	Lenovo Professional Deployment services available		
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty		

ThinkAgile HX 2U Icelake Certified Nodes - Intel

The 2U 1-node ThinkAgile HX Certified Nodes are engineered for storage-heavy workloads (Big Data and enterprise applications) and offer a high-capacity model.

Specifications

Model	HX5531	HX7531
Workloads	Big Data and High Capacity	High Performance and Databases
Form Factor	2U	2U
Processor	2x 3rd Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 220W	2x 3rd Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 270W
Memory	64GB - 4TB	64GB - 4TB
Drive Bays	12x 3.5" + 4x 2.5" (optional)	24x 2.5"
SSD Options (Hybrid Config)	2x-6x, 1.6TB, 1.92TB, 3.84TB, 7.68TB	24x-8x 1.6TB, 1.92TB, 3.84TB, 7.68TB
HDD Options (Hybrid Config)	6x-12x 4TB, 6TB 6x-10x 8TB 8x 10TB, 12TB, 16TB	8x-20x 1TB, 2TB, 2.4TB
SSD Options (All-Flash Config)	2x-16x 1.6TB, 1.92TB, 3.84TB, 7.68TB	4x-24x 1.6TB, 1.92TB, 3.84TB, 7.68TB
NVMe Options (All-Flash Config)	None	0, 2x or 4x 1.6TB, 3.2TB, 6.4TB, 7.68TB
GPU Options	0 - 6x single wide or 2x double wide	0 - 7x single wide or 2x double wide
10GBASE-T	2-10	0-10
25GbE SFP28 Ports	2-16	0-16
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	Life of device (LOD) license	
Deployment Services	Lenovo Professional Deployment services available	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty	

ThinkAgile HX 4U Cascade Lake Certified Nodes - Intel

The 4U 1-node ThinkAgile HX7821 Series Certified Nodes are engineered for SAP Business Applications and SAP HANA in-memory database workloads and offer a high-capacity model.

Specifications

Model	HX7821 Certified Node for SAP HANA, 4U form factor
Workloads	SAP HANA
Form Factor	4U
Processor	4x 2nd Generation Intel® Xeon® Silver, Gold, or Platinum processor, up to 250W
Memory	384GB - 6TB
Drive Bays	24x 2.5"
SSD Options (Hybrid Config)	No hybrid config support
HDD Options (Hybrid Config)	No HDD Support
SSD Options (All-Flash Config)	4x-24x 1.6TB, 1.92TB, 3.84TB, 7.68TB
NVMe Options (All-Flash Config)	2x or 4x 1.6TB, 1.92TB, 3.2TB, 3.84TB, 6.4TB, 7.68TB
GPU Options	No GPU Support
10GBASE-T	0-10
25GbE SFP28 Ports	0-16
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	Life of device (LOD) license
Deployment Services	Lenovo Professional Deployment services available
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty

ThinkAgile HX 1U Certified Nodes - AMD

The ThinkAgile HX AMD 1U Certified Nodes, 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	HX3376 Certified Nodes, 1U form factor	HX645 V3 Certified Nodes, 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)	44x-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	22x-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
GPU	Supports up to 2x NVIDIA A2 and T4 GPUs	Up to 2x single-wide GPUs
License Options	Life of device (LOD) license	Nutanix New Packaging & Pricing (PnP)
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)	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty	

ThinkAgile HX 2U Certified Nodes - AMD

The ThinkAgile HX AMD 2U Certified Nodes, 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

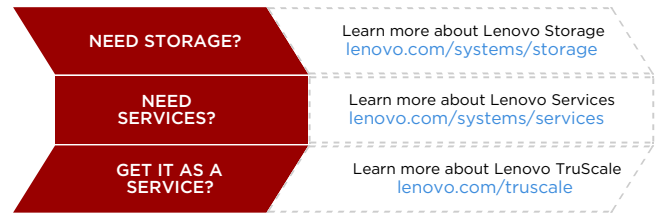
Model	HX665 V3 Storage Certified Nodes, 2U form factor	HX665 V3 Certified Nodes, 2U form factor
Workloads	File & Object Storage, Data Protection, Development & Test	VDI, Database & Enterprise Application, Development & Test, AI/ML, Messaging, Collaboration and Unified Communications
Processors	1x or 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
GPU	No GPU Support	Up to 3x double-wide GPUs Up to 8x single-wide GPUs
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 Pricing & Packaging (PhP)	
Warranty Support	Lenovo 3-year, 4-year, or 5-year limited hardware warranty	

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US\$62 billion revenue global technology powerhouse, ranked #171 in the Fortune Global 500, employing 77,000 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.

For More Information

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



© 2024 Lenovo. All rights reserved.

Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. **Warranty:** For a copy of applicable warranties, write to: Lenovo Warranty Information, 1009 Think Place, Morrisville, NC, 27560. Lenovo makes no representation or warranty regarding third-party products or services. **Trademarks:** Lenovo, the Lenovo logo, ThinkAgile®, and XClarity® are trademarks or registered trademarks of Lenovo. Intel® and Xeon® are trademarks of Intel Corporation or its subsidiaries. Other company, product, or service names may be trademarks or service marks of others. Document number DS0046, published January 30, 2024. For the latest version, go to lenovopress.lenovo.com/ds0046.