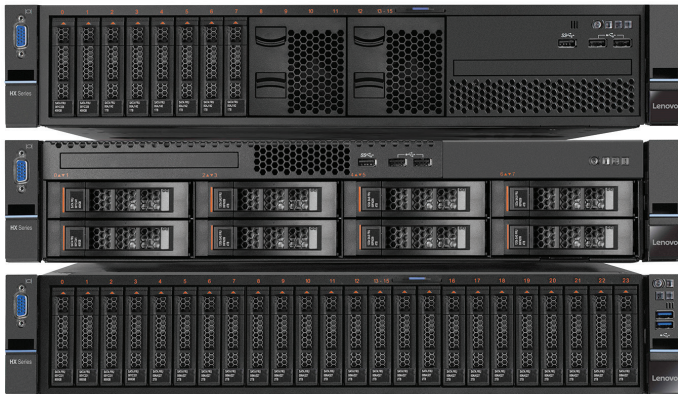


# Lenovo Converged HX Series

Simplify IT infrastructure and accelerate time-to-value via the Lenovo Converged HX Series Nutanix Appliance

Lenovo™



HX Series models above: HX3500 top, HX5500 middle and HX7500 bottom.

## IT Challenges

Today's IT infrastructure is a difficult beast to tame. A typical data center has multiple generations of servers, operating systems, hypervisors, and storage devices, often from multiple vendors. IT managers must juggle complex tasks, all while maintaining their legacy equipment.

Virtualizing servers and storage can help to reduce complexity considerably, but implementing data center-wide virtualization usually requires the use of multiple user interfaces and considerable IT knowledge and experience.

## Lenovo and Nutanix Partnership

To combat these IT challenges, Lenovo and Nutanix have partnered to deliver the Lenovo Converged HX Series, a best-in-class hyperconverged system with Nutanix's industry-leading software preloaded on Lenovo enterprise server platforms.

Ideal for all virtual applications, the HX Series delivers extreme reliability, dependable security, extensive and predictable scalability, simplified management, and faster time-to-value. At the same time, it reduces total cost of ownership, which enables your IT to focus on innovation and deliver value to your business.

Hyperconverged systems consolidate servers, storage, and virtualization into one virtual structure, easily managed in scale-out clusters through a single interface. Storage and compute across the different nodes in the cluster are pooled as a single shared virtual resource for more efficient utilization.

The focus of the Lenovo HX Series is threefold:

- 1) Simplify IT infrastructure
- 2) Reduce costs and accelerate time to value and
- 3) Deliver greater reliability

## Massive Scalability

Several common uses for the HX Series, featuring Intel® Xeon® processors, include virtual desktop infrastructure (VDI), server virtualization, private/hybrid clouds, enterprise applications and remote/branch office. Starting with as few as three nodes to keep your acquisition costs down, the HX Series is capable of immense scalability as your needs grow.

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## Tailored to Workload

Three available models can be customized to your needs: The Lenovo Converged HX3500 is optimized for compute-heavy environments; the Lenovo Converged HX5500 is optimized for storage-heavy workloads; and the Lenovo Converged HX7500 is optimized for high-performance workloads.

## Simplify IT Infrastructure

Lenovo and Nutanix share a common vision of delivering simplified infrastructure that does not demand significant time and resources to maintain. This enables enterprises to focus on their core competencies and drive innovation, greater efficiency, and agility for their business, instead of managing their current complex infrastructure.

The HX Series is simple to deploy. With compute, storage, and management co-located on a single node, the HX Series enables you to dramatically simplify your infrastructure and pool your resources into a single virtual structure for more efficient utilization

and management. Plus, it scales rapidly to meet the growing needs of your business. Lenovo designs its systems with open standards, enabling easy integration with third-party partners for best-in-class offerings.

## Reduce Costs And Accelerate Time To Value

The combination of the Lenovo x86 platform and Nutanix software delivers cost savings. Lower total cost of ownership (TCO) and higher return on investment (ROI) are achieved through high-reliability hardware and software focus, automation and agility, scalability and operating efficiency. Other factors that deliver cost savings include centralized management for shared resources, a single pane of glass, and highly secure data.

# Mapping the route to leadership hyperconverged infrastructure



**Simplify IT infrastructure** by integrating server, storage, and virtualization in a centrally managed appliance with built-in predictive analytics

**Reduce costs** by implementing only what you need and then easily scale as needed



**Increase reliability** with trusted Nutanix infrastructure solutions and industry-leading Lenovo enterprise systems



## Deliver Greater Reliability

The success of deploying a hyperconverged solution depends on reliable server platforms that play a larger role. As servers perform both the compute and pooled storage mission, uptime is even more important. You need the reliability of Lenovo servers.

For the *third year in a row*, Lenovo servers achieved the *#1 reliability rating* of all x86 servers worldwide, according to the ITIC 2015-2016 Global Server Hardware and OS Reliability Survey.<sup>†</sup> The independent survey polled hundreds of global businesses (representing 47 different industries) in May and June of 2015.

Not surprisingly, this high reliability—coupled with the ease of use and high performance of Lenovo servers—has consistently resulted in a #1 rating for customer satisfaction in the latest TBR survey.<sup>‡</sup>

## Bottom Line

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

The perfect complement to the HX Series, Lenovo Services guarantee a superior service experience. Providing outstanding value while supporting your uptime requirements, Lenovo Services offers choices to match your workload requirements ranging from base warranty extensions to same day committed repair, as well as hard drive retention, installation, and customized service options. Investing in Lenovo Services guarantees genuine Lenovo quality parts, reliable and consistent service by highly skilled, trained and certified technicians, and access to Lenovo global remote and field support teams.

## Why Lenovo

Lenovo is a \$46 billion global Fortune 500 company and a leader in providing innovative consumer, commercial, and enterprise technology. Lenovo enterprise systems deliver industry-leading performance, reliability, and security in virtualized and cloud environments for analytics, database, virtual desktop, infrastructure, and web workloads. Lenovo also offers simplified and extensible systems management tools so you can manage your infrastructure on your own terms. Consistently ranked #1 in reliability and customer satisfaction, the Lenovo enterprise server, storage, and networking portfolio provides the hardware for businesses that never stand still.

## Leadership paves the way

### The Lenovo advantage

**#1** in x86 server customer satisfaction

**#1** in x86 server reliability

**A TOP100** global brand

Proven technology, trusted expertise

Open ecosystem, easy-to-integrate solutions

### The Nutanix advantage

**1<sup>st</sup>** to market with hyperconverged offering

**Leader** in Gartner's Magic Quadrant for integrated systems

**52%** hyperconverged market share\*

**90+%** net promoter score



## Specifications

Model Name	HX3500	HX5500	HX7500
Sample Workloads	Compute-heavy (VDI and smaller virtualization workloads)	Storage-heavy (Server virtualization/ workloads with larger capacity requirements)	High-performance (Databases and other I/O intensive workloads)
Platform	2U rack; 8x2.5-inch drive bays	2U rack; 8x3.5-inch drives	2U rack; 24x2.5-inch drives
Processor	Intel® Xeon® E5 v3: 2 x E5-2630 v3 (16 cores) 2 x E5-2660 v3 (20 cores) 2 x E5-2680 v3 (24 cores) 2 x E5-2697 v3 (28 cores) 2 x E5-2699 v3 (36 cores)	Intel® Xeon® E5 v3: 2 x E5-2620 v3 (12 cores) 2 x E5-2630 v3 (16 cores) 2 x E5-2660 v3 (20 cores) 2 x E5-2680 v3 (24 cores) 2 x E5-2697 v3 (28 cores)	Intel® Xeon® E5 v3: 2 x E5-2643 v3 (12 cores) 2 x E5-2680 v3 (24 cores) 2 x E5-2697 v3 (28 cores) 2 x E5-2699 v3 (36 cores)
Memory	128GB to 768GB DDR4	128GB to 768GB DDR4	128GB to 768GB DDR4
SSD Options	2 x 400GB 2 x 800GB	2 x 400GB 2 x 800GB	4 x 400GB 4 x 800GB
HDD Options	6 x 1TB (6TB) 6 x 2TB (12TB)	6 x 2TB (12TB) 6 x 4TB (24TB) 6 x 6TB (36TB)	20 x 1TB (20TB) 20 x 2TB (40TB)
NIC Options	1 x dual-port 10Gb Optional additional dual-port 10Gb	1 x dual-port 10Gb Optional additional dual-port 10Gb	2 x dual-port 10Gb
Hypervisors Supported	Nutanix Acropolis (included); optional VMware ESXi 5.5 U2 or 6.0	Nutanix Acropolis (included); optional VMware ESXi 5.5 U2 or 6.0	Nutanix Acropolis (included); optional VMware ESXi 5.5 U2 or 6.0
Systems Management	Hardware management through <a href="#">Lenovo XClarity</a> and software management through Nutanix Prism		
License Options	Nutanix Starter, Pro and Ultimate License		
Software Maintenance	Software maintenance support through Nutanix		
Support	Lenovo 3-year or 5-year limited hardware warranty		

\* According to IDC report (Nutanix has 52% market share)

† ITIC 2015-2016 Global Server Hardware, Server OS Reliability Report, July 2015; [http://www.lenovo.com/images/products/system-x/pdfs/white-papers/itic\\_2015\\_reliability\\_wp.pdf](http://www.lenovo.com/images/products/system-x/pdfs/white-papers/itic_2015_reliability_wp.pdf)

‡ TBR Customer Satisfaction Survey, Aug. 2015; [http://www.lenovo.com/images/products/system-x/pdfs/white-papers/tbr\\_x86servers\\_top\\_csat\\_2q15\\_wp.pdf](http://www.lenovo.com/images/products/system-x/pdfs/white-papers/tbr_x86servers_top_csat_2q15_wp.pdf)

## For More Information

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

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