

# What's New in June - X6 and sd350 servers, HX Series Nutanix Appliances, Lenovo Storage, and more!

## Article

This month, Lenovo announced the ThinkServer sd350 dense server and the System x3850 X6 & x3950 X6 mission-critical servers with the new Intel Xeon E7 v4 processors. We also announced new Lenovo Storage offerings, HX Series Nutanix Appliances, and several new options for our servers and switches. Here are the documents we've published.

### ThinkServer sd350

The Lenovo ThinkServer sd350 is an ultradense and economical two-socket server in a 0.5U rack form factor. With four sd350 servers installed in the ThinkServer n400 enclosure, you have an ideal high-density 2U four-node (2U4N) platform for enterprise and cloud workloads.



Here are the documents we've published on the sd350:

- Product Guide  
<https://lenovopress.com/lp0095-thinkserver-sd350>
- Walk-through video  
<https://lenovopress.com/lp0079-thinkserver-sd350-video-walkthrough>
- 3D Interactive Tour  
<https://lenovopress.com/lp0042-thinkserver-sd350-interactive-3d-tour>
- New pages in the xREF Reference  
<https://lenovopress.com/xref>
- Additions to the Operating System Interop Guide  
<https://lenovopress.com/osig>

### System x3850 X6 and x3950 X6

The System x3850 X6 four-socket server and x3950 X6 eight-socket rack servers deliver maximum performance and availability for business-critical applications and databases.

Now with Intel Xeon E7 v4 processors, these servers support for up to 192 processor cores, 12TB of system memory, and over 170TB of flash storage. The X6 servers are not only known for their leadership performance, but also for their ability to scale in order to power



traditional databases as well as new in-memory database and analytics solutions.

Here are the documents on the X6 servers we have updated to include information on the new models, processors, memory and features:

- x3850 X6 product guide  
<https://lenovopress.com/tips1250-system-x3850-x6-6241>
- x3850 X6 video walkthrough  
<https://lenovopress.com/lp0533-system-x3850-x6-video-walk-through>
- x3950 X6 product guide  
<https://lenovopress.com/tips1251-system-x3950-x6-6241>
- x3950 X6 video walkthrough  
<https://lenovopress.com/lp0534-system-x3950-x6-video-walk-through>
- Lenovo System x3850 X6 and x3950 X6 Planning and Implementation Guide  
<https://lenovopress.com/sg248208-x6-planning-and-implementation-guide>
- In-memory Computing with SAP HANA on Lenovo X6 Systems  
<https://lenovopress.com/sg248086>
- SAP Business Suite on Lenovo X6 Systems  
<https://lenovopress.com/redp5073-sap-business-suite-lenovo-x6>
- New x3850 X6 and x3950 X6 pages in the xREF Reference  
<https://lenovopress.com/xref>
- Additions to the Operating System Interop Guide  
<https://lenovopress.com/osig>

In addition, Lenovo announced that the x3850 X6 achieved 17 new performance world records, Here are the benchmark reports that list the #1 results (TPC-E, SPECjbb, STAC-M3) and a very competitive result (SAP SD):

- TPC-E Benchmark Result for System x3850 X6  
<http://lenovopress.com/lp0526-x3850-x6-tpce-benchmark-result-2016-06-06>
- SPECjbb2015 Benchmark Result for System x3850 X6  
<http://lenovopress.com/lp0527-x3850-x6-specjbb2015-benchmark-result-2016-06-06>
- STAC-M3 Benchmark Result for System x3850 X6  
<http://lenovopress.com/lp0529-x3850-x6-stacm3-benchmark-result-2016-06-06>
- SAP SD Benchmark Result for System x3850 X6  
<http://lenovopress.com/lp0530-x3850-x6-sapsd-benchmark-result-2016-06-06>

## New Lenovo Storage V Series

Lenovo Storage V3700 V2 and Lenovo Storage V5030 are the newest additions to the Lenovo Storage family of disk systems. By using Spectrum Virtualize software functions, interoperability, and management tools, these systems deliver innovation and new levels of storage efficiency with ease of use to enable organizations to overcome their storage challenges.



These storage systems feature full 12 Gbps SAS drive-side connectivity, and they support 1 Gb and 10 Gb iSCSI, 12 Gb SAS, 16 Gb Fibre Channel (FC), and 10 Gb Fibre Channel over Ethernet (FCoE) host connectivity.

For more information, refer to the following product guides for the just announced new storage offerings:

- [Lenovo Storage V3700 V2](#)
- [Lenovo Storage V5030](#)

## New HX Series Nutanix Appliances

Lenovo Converged HX Series Nutanix Appliances are designed to help you simplify IT infrastructure, reduce costs, and accelerate time to value. These hyperconverged appliances from Lenovo combine industry-leading hyperconvergence software from Nutanix with Lenovo data center platforms that feature the newest Intel Xeon processor E5-2600 v4 product family.

HX Series

Here are the new product guides on the HX Series appliances we have created:

- [Lenovo Converged HX3000 Series Appliances](http://lenovopress.com/lp0505)  
<http://lenovopress.com/lp0505>
- [Lenovo Converged HX5000 Series Appliances](http://lenovopress.com/lp0506)  
<http://lenovopress.com/lp0506>
- [Lenovo Converged HX7000 Series Appliances](http://lenovopress.com/lp0507)  
<http://lenovopress.com/lp0507>

## New server options

This month, we also announced new options for System x and ThinkServer systems. All server product guides were updated with these options in addition to the new and updated options product guides listed below.

### Networking adapters

In our network adapter portfolio, we added the following adapters:

- [Intel X550-T2 10GBase-T Adapter](#) - for System x and ThinkServer
- [Intel X710 10 GbE adapter family](#) - new ML2 adapter for System x
- [Mellanox ConnectX-4 adapter family](#) - 1x40GbE, 1x25GbE, and 2x100GbE/EDR adapters for System x

## Storage host bus adapters

In our Fibre Channel HBA portfolio, we added the following new adapters:

- [QLogic 16 Gb FC HBAs](#) for System x
- [Emulex 16 Gb FC HBAs](#) for System x

We published a new paper on the Emulex offerings:

- [The Benefits of Emulex 16 Gb \(Gen 6\) FC HBAs in Lenovo Storage Solutions](#)

We also published two videos to help you understand the new FC HBAs:

- [Emulex 16 Gb FC HBAs Video Walkthrough](#)
- [QLogic 16 Gb FC HBAs Video Walkthrough](#)

## Solid-state drives for ThinkServer

Lenovo added Samsung PM863 and Intel S3510 SSDs for ThinkServer 1P servers:

- [Lenovo PM863 Enterprise Entry SATA SSDs](#) - support for TS150
- [Intel S3510 Enterprise Entry SATA SSDs](#) - support for RS140

## Other server options

Server product guides were also updated with the following components:

- All the new options listed above
- New USB Hypervisor Keys, preloaded with the Lenovo VMware ESXi 5.5 U3B and 6.0 U2 custom image
- New 12Gbps NL SAS 3.5" HDD options
- New NVIDIA Tesla and Quadro GPUs

## New 40Gb transceiver and cables

Lenovo also announced a new 40Gb transceiver and new DAC cables, so we updated these product guides to reflect the new options:

- [Lenovo Flex System Fabric SI4093 System Interconnect Module](#)
- [Lenovo Flex System Fabric CN4093 10Gb Converged Scalable Switch](#)
- [Lenovo Flex System Fabric EN4093R 10Gb Scalable Switch](#)
- [Lenovo RackSwitch G8332](#)
- [Lenovo RackSwitch G8296](#)
- [Lenovo RackSwitch G8272](#)
- [Lenovo RackSwitch G8264CS](#)
- [Lenovo RackSwitch G8264](#)

## New Power Distribution Units

### Power distribution units

Lenovo announced new power distribution units (PDUs):

- 0U 12 C13/12 C19 Switched and Monitored 48A 3 Phase PDU
- 0U 36 C13/6 C19 24A 1 Phase PDU
- 0U 36 C13/6 C19 32A 1 Phase PDU
- 0U 21 C13/12 C19 32A 3 Phase PDU
- 0U 21 C13/12 C19 48A 3 Phase PDU
- 0U 20 C13/4 C19 Switched and Monitored 32A 1 Phase PDU
- 0U 20 C13/4 C19 Switched and Monitored 24A 1 Phase PDU
- 0U 18 C13/6 C19 Switched and Monitored 32A 3 Phase PDU

### Related product families

Product families related to this document are the following:

- [10 Gb Embedded Connectivity](#)
- [10 Gb Ethernet Connectivity](#)
- [4-Socket Rack Servers](#)
- [40 Gb Ethernet Connectivity](#)
- [8-Socket Rack Servers](#)
- [Drives](#)
- [Ethernet Adapters](#)
- [Host Bus Adapters](#)
- [Lenovo SAN Storage](#)
- [Mission Critical Servers](#)
- [Power Distribution Units](#)
- [Supercomputing Servers](#)

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