

The background of the entire page is a photograph of a server room. Several rows of black server racks are visible, each with a red "Lenovo" logo on its top edge. The racks are filled with server components, and some have green indicator lights. The room has a grid ceiling and is illuminated with a mix of blue and white light. Overlaid on the image are several colorful, glowing, abstract lines in shades of red, orange, yellow, green, and blue, which appear to be digital data paths or network connections.

# LENOVO SOLUTIONS FROM THE EDGE TO THE DATA CENTER

Portfolio Guide

January 2022



**ThinkSystem** **ThinkAgile**

# CONTENTS

|  |           |
|--|-----------|
| <b>Enabling the Future</b>   | <b>3</b>  |
| <b>Data Center and Edge Infrastructure</b>                                   | <b>4</b>  |
| <b>ThinkSystem Rack &amp; Tower Servers</b>                                  | <b>4</b>  |
| <b>ThinkSystem High End</b>  | <b>10</b> |
| <b>ThinkSystem Blades</b>  | <b>13</b> |
| <b>ThinkSystem Dense-Optimised</b>   | <b>16</b> |
| <b>ThinkSystem and ThinkEdge Edge Solutions</b>                              | <b>20</b> |
| <b>Storage</b>   | <b>23</b> |
| <b>ThinkSystem DM Series</b>   | <b>24</b> |
| <b>ThinkSystem DE Series</b>   | <b>26</b> |
| <b>Lenovo Fibre Channel Switches &amp; Directors</b>                         | <b>27</b> |
| <b>Direct Attach Storage (JBOD)</b>  | <b>28</b> |
| <b>Tape Archive Solutions</b>  | <b>29</b> |
| <b>OEM Solutions</b>   | <b>30</b> |
| <b>On Demand Solution Offerings</b>  | <b>30</b> |
| <b>Team Up With an Industry-Leading Global Partner for Your OEM Solution</b> | <b>30</b> |
| <b>Software-Defined Infrastructure</b>                                       | <b>31</b> |
| <b>ThinkAgile SX for Microsoft Azure Stack</b>                               | <b>32</b> |
| <b>Hyperconverged Infrastructure</b>   | <b>32</b> |
| <b>ThinkAgile MX Series</b>  | <b>33</b> |
| <b>ThinkAgile HX Series</b>  | <b>35</b> |
| <b>ThinkAgile VX Series</b>  | <b>39</b> |
| <b>ThinkAgile Advantage Support for Appliances and Certified Nodes</b>       | <b>43</b> |
| <b>Software for Your Infrastructure</b>                                      | <b>44</b> |
| <b>Lenovo XClarity Management</b>  | <b>45</b> |
| <b>Computing Orchestration and Cloud Automation</b>                          | <b>46</b> |
| <b>Microsoft® Windows® Server</b>  | <b>47</b> |
| <b>Red Hat® Enterprise Linux®</b>  | <b>48</b> |
| <b>SUSE® Linux Enterprise Server</b>   | <b>48</b> |
| <b>Virtualization</b>  | <b>49</b> |
| <b>Data Protection</b>   | <b>50</b> |
| <b>Engineered Solutions</b>  | <b>50</b> |
| <b>Lenovo DSS-G</b>  | <b>51</b> |
| <b>Lenovo Showcase</b>   | <b>52</b> |
| <b>Lenovo Services</b>   | <b>53</b> |

# ENABLING THE FUTURE

Lenovo

By providing the strongest foundation of performance, reliability and security in the industry, Lenovo delivers an Edge to Cloud portfolio of compute, storage and networking capabilities that seamlessly integrate and interoperate with any environment. To accelerate deployment and reduce time-to-value, Lenovo offers a suite of pre-tested and pre-engineered solutions, ready-to-deploy clients' workloads. Every phase of the IT lifecycle is taken care of by Lenovo Services, which help clients deliver the most from their technology investment.

- **Most reliable:** Lenovo servers ranked No.1 in uptime of any x86 systems for the past 8 years running, according to 2021 ITIC reliability [survey](#)<sup>1</sup>.
- **Most secure:** Lenovo provides the best and most airtight platform security with our Trusted Platform Assurance. Even after adding options at additional cost, our competitors offer fewer security capabilities than come standard on Lenovo ThinkSystem.
- **Strategic Relationships:** Unlike our major competitors, Lenovo does not have a proprietary software business and remains more open for industry leading partnerships. Because of this, Lenovo's customers can benefit from an open standards strategy that allows them to grow and change their IT systems as needed.

With our ever-growing portfolio, powered by the Intel® Xeon® processor Scalable family, with open, modular technologies designed to adapt easily and scale quickly, Lenovo's clients can excel and accelerate into the future. Find out more about:

- **ThinkSystem:** Server, storage and networking solutions that deliver the industry's best combination of performance, flexibility, and reliability.
- **ThinkAgile:** Next generation IT software-defined infrastructure that's easier to deploy and manage, and reduces costs and complexity.
- **ThinkEdge:** Unleash the power of AI solutions at the Edge, by taking purpose built server compute power closer to the source of the data.

<sup>1</sup> ITIC 2021 Global Hardware, Server OS Reliability Report <sup>2</sup> Lenovo's Data Center Group is dual headquartered and managed from Morrisville, NC, USA. We are experienced with over 25 years in the data center business. We build our datacenter products in Lenovo owned and controlled factories in each of the regions we operate. This gives us greater control over quality and supply chain security than our competitors have.

# DATA CENTER AND EDGE INFRASTRUCTURE

Lenovo

By providing the strongest foundation of performance, reliability and security in the industry, Lenovo delivers an end-to-end portfolio of compute, storage and networking capabilities that seamlessly integrate and interoperate with any environment.

## ThinkSystem RACK & TOWER SERVERS

Flexible for even the most demanding workloads

Driving new levels of storage density and connectivity, Lenovo ThinkSystem servers powered by Intel® Xeon® Scalable processor family are the ideal platform to host private and public cloud, virtualisation, VDI, web serving, analytics and big data solutions.

Trust Lenovo to be your expert. Single point of contact for hardware, firmware and software support.

If you would like to find out more specific details regarding the products below, please visit [here](#), remember to scroll down to find the products you are looking for.

Looking for feature comparison, then please visit [here](#).

All our rack servers can be found [here](#).

ThinkSystem SR590



ThinkSystem ThinkAgile

# TOWER SERVERS







| Lenovo Model         | ThinkSystem ST50   | ThinkSystem ST250   |
|----------------------|--|---|
| Rack Units           | 4U   | 4U  |
| Typical Workloads    | Small-to-medium-sized business office applications, and remote office/branch office (ROBO) or retail applications. | Web serving, system management, and near-side data backup, blockchain, remote office/branch office (ROBO), retail applications. |
| Processor            | 1 x Intel Xeon E-2200, 6 cores max.  | 1 x Intel Xeon E-2200, 6 cores max.   |
| Memory Maximum       | 64GB   | 128GB   |
| Storage maximum (TB) | 32TB   | 64TB  |
| Product Guide        | <a href="https://lenovopress.com/lp0960">https://lenovopress.com/lp0960</a>  | <a href="https://lenovopress.com/lp0961">https://lenovopress.com/lp0961</a>   |





| Lenovo Model         | ThinkSystem ST550  | ThinkSystem ST650 V2   |
|----------------------|--|--|
| Rack Units           | 4U   | 4U Tower   |
| Typical Workloads    | Email, file/print, private cloud, VDI, web serving, remote office/branch office (ROBO), retail applications. | The ST650 V2 is designed to handle a wide range of workloads, such as databases, virtualization and cloud computing, virtual desktop infrastructure (VDI), infrastructure security, systems management, enterprise applications, collaboration/email, streaming media, web, and HPC. |
| Processor            | 2 x Intel 2nd Generation Xeon Scalable Processor, 16 cores max.  | 2 x Intel 3rd Generation Xeon Scalable Processor, 36 cores max.  |
| Memory Maximum       | 768GB  | 4TB  |
| Storage maximum (TB) | 154TB  | 256TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1055">https://lenovopress.com/lp1055</a>                                  | <a href="https://lenovopress.com/lp1390">https://lenovopress.com/lp1390</a>  |


# RACK SERVERS


|                      |   |  |
|----------------------|---|--|
| <b>Lenovo Model</b>  | <b>SR250</b>  |    |
| Rack Units           | 1U  |  |
| Typical Workloads    | Web serving, virtualization, entry-cloud and data-analytics applications, blockchain, media streaming.    |  |
| Processor            | 1 x Intel Xeon E-2200, 6 cores max  |  |
| Memory Maximum       | 128GB   |  |
| Storage maximum (TB) | 32TB  |  |
| Product Guide        | <a href="https://lenovopress.com/lp1272">https://lenovopress.com/lp1272</a>                               |  |
| <b>Lenovo Model</b>  | <b>SR635</b>  |    |
| Rack Units           | 1U  |  |
| Typical Workloads    | Database, HPC, software-defined storage, SMB/ROBO.  |  |
| Processor            | 1 x AMD EPYC 7002/7003, 64 cores max  |  |
| Memory Maximum       | 2TB   |  |
| Storage maximum (TB) | 108TB   |  |
| Product Guide        | <a href="https://lenovopress.com/lp1160">https://lenovopress.com/lp1160</a>                               |  |
| <b>Lenovo Model</b>  | <b>SR655</b>  |  |
| Rack Units           | 2U  |  |
| Typical Workloads    | AI inference, VDI, video analytics, software-defined storage, network workloads (packet inspection, etc.) |  |
| Processor            | 1 x AMD EPYC 7002/7003, 64 cores max.   |  |
| Memory Maximum       | 2TB   |  |
| Storage maximum (TB) | 280TB   |  |
| Product Guide        | <a href="https://lenovopress.com/lp1161">https://lenovopress.com/lp1161</a>                               |  |

|                      |   |  |
|----------------------|---|--|
| <b>Lenovo Model</b>  | <b>SR645</b>  |  |
| Rack Units           | 1U  |  |
| Typical Workloads    | HPC, database, virtualization, VDI.   |  |
| Processor            | 2 x AMD EPYC 7002, 7003, 64 cores max.                                      |  |
| Memory Maximum       | 8TB   |  |
| Storage maximum (TB) | 92TB  |  |
| Product Guide        | <a href="https://lenovopress.com/LP1280">https://lenovopress.com/LP1280</a> |  |

|                      |   |  |
|----------------------|---|--|
| <b>Lenovo Model</b>  | <b>SR665</b>  |  |
| Rack Units           | 2U  |  |
| Typical Workloads    | Inference, virtualization, VDI, HPC, HCI.                                   |  |
| Processor            | 2 x AMD EPYC 7002, 7003, 64 cores max.                                      |  |
| Memory Maximum       | 8TB   |  |
| Storage maximum (TB) | 320TB   |  |
| Product Guide        | <a href="https://lenovopress.com/LP1269">https://lenovopress.com/LP1269</a> |  |




|                      |   |  |
|----------------------|---|--|
| <b>Lenovo Model</b>  | <b>SR530</b>  |  |
| Rack Units           | 1U  |  |
| Typical Workloads    | Email, file/print, public/private cloud, Web serving.                       |  |
| Processor            | 2 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 16 cores max. |  |
| Memory Maximum       | 768GB   |  |
| Storage maximum (TB) | 61TB  |  |
| Product Guide        | <a href="https://lenovopress.com/lp1045">https://lenovopress.com/lp1045</a> |  |

|                      |   |
|----------------------|---|
| <b>Lenovo Model</b>  | <b>SR550</b>  |
| Rack Units           | 2U  |
| Typical Workloads    | Email, file/print, public/private cloud, Web serving, media streaming.                          |
| Processor            | 2 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 16 cores max.                     |
| Memory Maximum       | 768GB   |
| Storage maximum (TB) | 168TB   |
| Product Guide        | <a href="https://lenovopress.com/lp1046">https://lenovopress.com/lp1046</a>                     |

|                      |   |
|----------------------|---|
| <b>Lenovo Model</b>  | <b>SR570</b>  |
| Rack Units           | 1U  |
| Typical Workloads    | Email, file/print, web serving, public/private cloud, virtualization, HPC, big data, VDI.       |
| Processor            | 2 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 16 cores max.                     |
| Memory Maximum       | 1TB   |
| Storage maximum (TB) | 77TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1047">https://lenovopress.com/lp1047</a>                     |

|                      |  |
|----------------------|--|
| <b>Lenovo Model</b>  | <b>SR590</b>           |
| Rack Units           | 2U   |
| Typical Workloads    | Email, file/print, web serving, public/private cloud, virtualization, HPC, big data, VDI, media streaming. |
| Processor            | 2 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 16 cores max.                                |
| Memory Maximum       | 1TB  |
| Storage maximum (TB) | 196TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1048">https://lenovopress.com/lp1048</a>                                |



|                      |  |
|----------------------|--|
| <b>Lenovo Model</b>  | <b>SR630 V2</b>    |
| Rack Units           | 1U   |
| Typical Workloads    | The SR630 V2 is designed to handle a wide range of workloads, such as databases, virtualization and cloud computing, infrastructure security, systems management, enterprise applications, collaboration/email, streaming media, web, and HPC.   |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 40 cores max.  |
| Memory Maximum       | 4TB  |
| Storage maximum (TB) | 92.16TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1391">https://lenovopress.com/lp1391</a>  |
| <b>Lenovo Model</b>  | <b>SR650 V2</b>    |
| Rack Units           | 2U   |
| Typical Workloads    | The SR650 V2 is designed to handle a wide range of workloads, such as databases, virtualization and cloud computing, virtual desktop infrastructure (VDI), infrastructure security, systems management, enterprise applications, collaboration/email, streaming media, web, and HPC.   |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 40 cores max   |
| Memory Maximum       | 4TB  |
| Storage maximum (TB) | 360TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1392">https://lenovopress.com/lp1392</a>  |
| <b>Lenovo Model</b>  | <b>SR670 V2</b>    |
| Rack Units           | 3U   |
| Typical Workloads    | The server delivers optimal performance for Artificial Intelligence (AI), High Performance Computing (HPC) and graphical workloads across an array of industries. Retail, manufacturing, financial services and healthcare industries can leverage the processing power of the GPUs in the SR670 V2 to extract greater insights and drive innovation utilizing machine learning (ML) and deep learning (DL). |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 40 cores max   |
| Memory Maximum       | 2TB  |
| Storage maximum (TB) | 64TB   |
| Product Guide        | <a href="https://lenovopress.com/lp1393">https://lenovopress.com/lp1393</a>  |

# ThinkSystem HIGH END

Designed with your mission-critical workloads in mind

Lenovo's high-end rack servers are suited for heavy vertical workloads, virtualisation and legacy system replacements. The ThinkSystem portfolio brings new models designed for your most demanding, mission-critical workloads, such as in-memory databases, large transactional databases, batch and real-time analytics, ERP, CRM, and virtualised server workloads.

Everything within reach. Unmatched scalability with 4S & 8S in one 4U platform, modular drive tray, highest drive density, front and rear access for 12% faster serviceability.

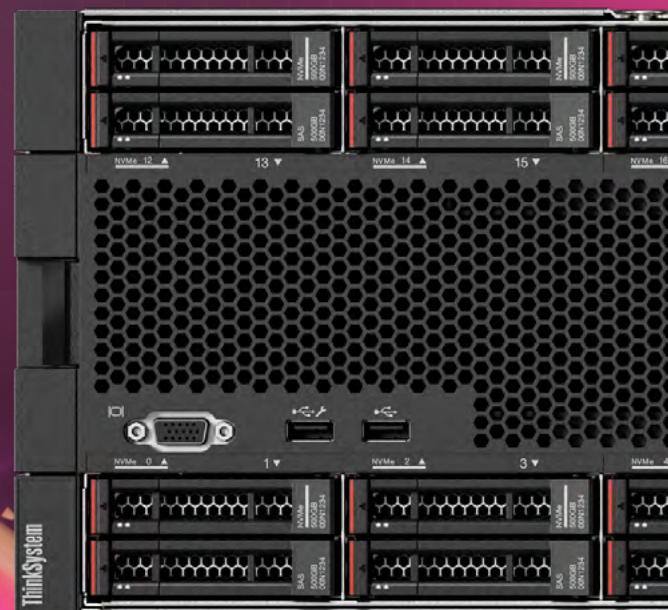
For more specific details regarding the products below, please [visit here](#).

If you're looking for feature comparison, please [visit here](#).


All our rack servers can be found [here](#).

Lenovo

ThinkSystem SR950




ThinkSystem


|                      |   |
|----------------------|---|
| <b>Lenovo Model</b>  | <b>SR850</b>  |
| Rack Units           | 2U  |
| Typical Workloads    | Business applications, server consolidation, database, virtualization.                          |
| Processor            | 4 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 28 cores max.                     |
| Memory Maximum       | 6TB   |
| Storage maximum (TB) | 246TB   |
| Product Guide        | <a href="https://lenovopress.com/lp1052">https://lenovopress.com/lp1052</a>                     |

|                      |  |
|----------------------|--|
| <b>Lenovo Model</b>  | <b>SR850P</b>  |
| Rack Units           | 2U   |
| Typical Workloads    | Business applications, server consolidation, database, virtualization.                           |
| Processor            | 4 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 28 cores max.                      |
| Memory Maximum       | 6TB  |
| Storage maximum (TB) | 123TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1237">https://lenovopress.com/lp1237</a>                      |

|                      |  |
|----------------------|--|
| <b>Lenovo Model</b>  | <b>SR850 V2</b>    |
| Rack Units           | 2U   |
| Typical Workloads    | Mission critical workloads scaling up from 2S systems such as enterprise virtualization, CRM, ERP, SQL databases, VDI and small-mid sized SAP HANA computing environments. |
| Processor            | 4 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 28 cores max.  |
| Memory Maximum       | 6TB  |
| Storage maximum (TB) | 369TB  |
| Product Guide        | <a href="https://lenovopress.com/LP1301">https://lenovopress.com/LP1301</a>  |

|                     |              |  |
|---------------------|--------------|--|
| <b>Lenovo Model</b> | <b>SR860</b> |  |
|---------------------|--------------|--|

|                      |   |
|----------------------|---|
| Rack Units           | 4U  |
| Typical Workloads    | Business consolidation, database virtualization, data analytics, and scientific/technical applications. |
| Processor            | 4 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 28 cores max.                             |
| Memory Maximum       | 6TB   |
| Storage maximum (TB) | 246TB   |
| Product Guide        | <a href="https://lenovopress.com/lp1053">https://lenovopress.com/lp1053</a>                             |

|                     |                 |  |
|---------------------|-----------------|--|
| <b>Lenovo Model</b> | <b>SR860 V2</b> |  |
|---------------------|-----------------|--|

|                      |  |
|----------------------|--|
| Rack Units           | 4U   |
| Typical Workloads    | Mission critical workloads such as SAP HANA in-memory computing, transactional databases, deep learning, analytics, big data, and virtual machine density. |
| Processor            | 4 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 28 cores max.  |
| Memory Maximum       | 6TB  |
| Storage maximum (TB) | 737TB  |
| Product Guide        | <a href="https://lenovopress.com/LP1302">https://lenovopress.com/LP1302</a>  |

|                     |              |  |
|---------------------|--------------|--|
| <b>Lenovo Model</b> | <b>SR950</b> |  |
|---------------------|--------------|--|

|                      |   |
|----------------------|---|
| Rack Units           | 4U  |
| Typical Workloads    | Virtualization, analytics, database, HPC, VDI, mission-critical applications. |
| Processor            | 8 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 28 cores max.   |
| Memory Maximum       | 24TB  |
| Storage maximum (TB) | 369TB   |
| Product Guide        | <a href="https://lenovopress.com/lp1054">https://lenovopress.com/lp1054</a>   |

# ThinkSystem BLADES

ThinkSystem SN850



The orchestration platform for conducting tomorrow's business

Flexible infrastructure for ever-changing workloads. Resource management that leverages both hardware and systems management.





Flex System uses the latest generation of Intel Xeon SP to deliver more performance and bandwidth and far more capability to consolidate and virtualize than previous systems. Flex System is anchored by the Flex System Enterprise Chassis which enables high-speed performance with integrated servers and networking. Furthermore, its flexible design can meet the needs of varying workloads with independently scalable IT resource pools for higher utilization and lower cost per workload.

## More info on chassis

| Lenovo Model         | <b>SN550 V2</b>    |
|----------------------|---|
| Rack Units           | 0.7 U   |
| Typical Workloads    | Flexible, high-performance blades for critical workloads, such as cloud, server virtualization, database, and virtual desktop infrastructure (VDI). |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 36 cores max.   |
| Memory Maximum       | 2TB   |
| Storage maximum (TB) | 24TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1397">https://lenovopress.com/lp1397</a>   |

ThinkSystem

|                      |   |
|----------------------|---|
| <b>Lenovo Model</b>  | <b>SN550</b>    |
| Rack Units           | 0.7U  |
| Typical Workloads    | Flexible, high-performance blades for critical workloads, such as cloud, server virtualization, database, and virtual desktop infrastructure (VDI). |
| Processor            | 2 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 28 cores max.   |
| Memory Maximum       | 3TB   |
| Storage maximum (TB) | 31TB  |
| Product Guide        | <a href="https://lenovopress.com/lp1043">https://lenovopress.com/lp1043</a>   |

|                      |  |
|----------------------|--|
| <b>Lenovo Model</b>  | <b>SN850</b>                               |
| Rack Units           | 1.4U   |
| Typical Workloads    | Optimized for high-end virtualization, mainstream database deployments, and memory-intensive, high-performance environments. |
| Processor            | 4 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 28 cores max.  |
| Memory Maximum       | 6TB  |
| Storage maximum (TB) | 61TB   |
| Product Guide        | <a href="https://lenovopress.com/lp1044">https://lenovopress.com/lp1044</a>  |

|                      |  |  |
|----------------------|--|--|
| <b>Lenovo Models</b> | <b>ThinkSystem NE2552E Flex Switch</b> |  |
|----------------------|--|--|



|       |  |  |
|-------|--|--|
| Ports | Internal: 28x 10/25 Gb Ethernet ports or 14x 50 Gb Ethernet ports supporting 2 and 4 port 10Gb, 25Gb and 50Gb adapters External: 8x SFP+/SFP28 ports and 4x QSFP+/QSFP28 ports supporting 10Gb, 25Gb, 40Gb, 50Gb and 100Gb port speeds |  |
|-------|--|--|

|                          |  |  |
|--------------------------|--|--|
| Data Sheet Product Guide | <a href="https://lenovopress.com/datasheet/ds0040">https://lenovopress.com/datasheet/ds0040</a><br><a href="https://lenovopress.com/lp0854">https://lenovopress.com/lp0854</a> |  |
|--------------------------|--|--|

|                      |                              |  |
|----------------------|------------------------------|--|
| <b>Lenovo Models</b> | <b>EN4091 10Gb Pass thru</b> | <b>SI4091 System Interconnect Module</b> |
|----------------------|------------------------------|--|

|                          |   |   |
|--------------------------|---|---|
| Base Configuration Ports | 14 x 1/10Gb internal ports<br>14 x 1/10Gb SFP + external transceivers | 14 x 10Gb internal<br>10 x 10Gb SFP+ external |
|--------------------------|---|---|

|                  |   |   |
|------------------|---|---|
| Recommended for: | Low cost unmanaged 10Gb, 1-1 direct connectivity solution | Low cost 10Gb, simple management connectivity |
|------------------|---|---|

|               |   |   |
|---------------|---|---|
| Product Guide | <a href="https://lenovopress.com/tips0865">https://lenovopress.com/tips0865</a> | <a href="https://lenovopress.com/tips1196">https://lenovopress.com/tips1196</a> |
|---------------|---|---|

|                      |                                     |  |
|----------------------|-------------------------------------|--|
| <b>Lenovo Models</b> | <b>EN4093R 10Gb Scalable Switch</b> | <b>SI4093 System Interconnect Module</b> |
|----------------------|-------------------------------------|--|

|                          |  |  |
|--------------------------|--|--|
| Base Configuration Ports | Up to 28 x 10Gb internal<br>Up to 14 x 10Gb SFP+ and 2 x 40Gb or 4 x 10Gb QSFP+ external | Up to 28 x 10Gb internal<br>Up to 14 x 10Gb SFP+ and 2 x 40Gb or 4 x 10Gb QSFP+ external |
|--------------------------|--|--|

|                  |  |   |
|------------------|--|---|
| Recommended for: | Demanding Layer 2/3 10Gb environments with optional 40Gb uplinks | 10/40Gb simplified management connectivity, with enhanced scalability and performance |
|------------------|--|---|

|               |   |   |
|---------------|---|---|
| Product Guide | <a href="https://lenovopress.com/tips1292">https://lenovopress.com/tips1292</a> | <a href="https://lenovopress.com/tips1294">https://lenovopress.com/tips1294</a> |
|---------------|---|---|

ThinkSystem SN550



ThinkSystem

# ThinkSystem DENSE-OPTIMISED

Ready to adapt when you are

Powerful platforms for compute-intensive workloads, ranging from technical computing, to grid deployments, to analytics workloads, to large-scale cloud and virtualisation infrastructures.


**ThinkSystem** SD530




**Lenovo**

**ThinkSystem**




|                      |   |  |
|----------------------|---|--|
| <b>Lenovo Model</b>  | <b>SD530</b>  |  |
| Rack Units           | 0.5U  |  |
| Typical Workloads    | HPC, VDI, Web serving, public/private cloud, virtualization.                |  |
| Processor            | 2 x Intel 2 <sup>nd</sup> Generation Xeon Scalable Processor, 28 cores max. |  |
| Memory Maximum       | 2TB   |  |
| Storage maximum (TB) | 92TB  |  |
| Product Guide        | <a href="https://lenovopress.com/lp1041">https://lenovopress.com/lp1041</a> |  |

|                      |  |  |
|----------------------|--|--|
| <b>Lenovo Model</b>  | <b>SR670 V2</b>  |  |
| Rack Units           | 3U   |  |
| Typical Workloads    | The server delivers optimal performance for Artificial Intelligence (AI), High Performance Computing (HPC) and graphical workloads across an array of industries. Retail, manufacturing, financial services and healthcare industries can leverage the processing power of the GPUs in the SR670 V2 to extract greater insights and drive innovation utilizing machine learning (ML) and deep learning (DL). |  |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 40 cores max.  |  |
| Memory Maximum       | 2TB  |  |
| Storage maximum (TB) | 64TB   |  |
| Product Guide        | <a href="https://lenovopress.com/lp1393">https://lenovopress.com/lp1393</a>  |  |

**ThinkSystem** SR670




**ThinkSystem**


|                      |   |  |
|----------------------|---|--|
| <b>Lenovo Model</b>  | <b>SD630 V2</b>   |  |
| Rack Units           | 0.5 U   |  |
| Typical Workloads    | The SD630 V2 is well suited for workloads ranging from cloud, analytics to AI and high performance computing application like Computer Aided Engineering (CAE) or Electronic Design Automation (EDA). |  |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 36 cores max.   |  |
| Memory Maximum       | 1TB   |  |
| Storage maximum (TB) | 92.16TB   |  |
| Product Guide        | <a href="https://lenovopress.com/lp1394">https://lenovopress.com/lp1394</a>   |  |

Lenovo ThinkSystem SD650 V2 and SD650-N V2 are based on our fourth generation Lenovo Neptune direct water cooling (DWC) platform leveraging two 3rd Gen Intel Xeon Scalable processors with NVIDIA HDR Infini Band networking. The ability to use water as the cooling method results in extreme performance in dense packaging. Direct water cooling is part of Lenovo’s Neptune family of liquid cooling technologies which drive both greater energy efficiency and higher performance. Lenovo Neptune’s approach uses liquid cooling to dissipate heat from systems with high thermal output, which, combined with Energy Aware Run time environments, enables data centers to run up to 40% more efficiently while maintaining uncompromised performance and preserving a dense data center footprint. With direct water cooling, Lenovo drives increased compute density, performance, and cooling efficiency for High Performance Computing and other workloads that require dense compute performance, such as Cloud, Grid, and Analytics. Direct water cooling is achieved by circulating the cooling water directly through cold plates that contact the CPU thermal case, DIMMs, and other high-heat-producing components in the server.

One of the main advantages of direct water cooling is the water can be relatively warm and still be very effective, as water conducts heat much more effectively than air. Depending on the server configuration, 85 - 90% of the heat is removed by water cooling; the rest can easily be managed by a standard computer room air conditioner. With allowable inlet temperatures for the water being as high as 50°C (122°F), in many cases the water can be cooled by using ambient air and chilled water and a heat exchanger is not required.



|                      |   |  |
|----------------------|---|--|
| <b>Lenovo Model</b>  | <b>SD650 V2</b>   |  |
| Rack Units           | 1 U   |  |
| Typical Workloads    | Designed to industry-standards, the SD650 V2 is a general-purpose platform that is designed to give customers a flexible IT infrastructure. Customized solutions can be configured to provide an application-appropriate platform with a choice of servers, networking switches, adapters, and racks. |  |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 40 cores max.   |  |
| Memory Maximum       | 2TB   |  |
| Storage maximum (TB) | 3.84TB  |  |
| Product Guide        | <a href="https://lenovopress.com/lp1395">https://lenovopress.com/lp1395</a>   |  |

|                      |  |  |
|----------------------|--|--|
| <b>Lenovo Model</b>  | <b>SD650-N V2</b>  |  |
| Rack Units           | 1 U  |  |
| Typical Workloads    | The ThinkSystem SD650-N V2 server is the next-generation high-performance GPU-rich server based on Lenovo's fourth generation Lenovo Neptune™ direct water cooling platform. |  |
| Processor            | 2 x Intel 3 <sup>rd</sup> Generation Xeon Scalable Processor, 40 cores max.  |  |
| Memory Maximum       | 1TB - 2TB in plan for Q3   |  |
| Storage maximum (TB) | 3.84TB   |  |
| Product Guide        | <a href="https://lenovopress.com/lp1396">https://lenovopress.com/lp1396</a>  |  |

**ThinkSystem** SD530



**ThinkSystem**

# ThinkSystem and ThinkEdge EDGE SOLUTIONS

Lenovo


## Overview

The world is more connected than ever, and most data is now being generated outside of the data center. Lenovo is here to help you speed things up by defining your IoT strategy and bringing compute capabilities wherever you need them. We also bring AI to the edge for faster processing with purpose-built solutions that use high-performance GPUs and your choice of integrated storage and data management.

## Benefits

Our edge servers are rugged and secure with ThinkShield protection-covering physical tamper-proofing, secure BIOS and data encryption, and the ability to withstand conditions of all kinds. With a range of capabilities from small IoT devices to larger multi GPU systems, no matter what you need, we'll find the right solution for you.

Note that the following offerings will be orderable in 2022: SE70, SE450

| Lenovo Models        | SE30   |  |
|----------------------|--|---|
| Rack Units           | Compact 0.81U desk unit with VESA and DIN mounting options                           |   |
| Target workloads     | Industrial Edge, MIL-SPEC tested, serial, bluetooth, wired, wireless and LTE options |   |
| Processor            | Intel Core i5 vPRO   |   |
| Memory Maximum       | 16GB   |   |
| Storage Maximum (TB) | 1TB, up to 2x M,2  |   |
| Product Guide        | <a href="https://techtoday.lenovo.com/10189">https://techtoday.lenovo.com/10189</a>  |   |


ThinkEdge


| Lenovo Models        | SE50   |
|----------------------|--|
| Rack Units           | Compat 2U desktop with DIN rail mounting options   |
| Target workloads     | Smart edge with increased CPU requirements. CAN bus support, serial, wired, wireless options |
| Processor            | Intel Core i5 or i7 vPro   |
| Memory Maximum       | 32GB   |
| Storage Maximum (TB) | 3TB, up to 3x M.2  |
| Product Guide        | <a href="https://techtoday.lenovo.com/10301">https://techtoday.lenovo.com/10301</a>          |



| Lenovo Models        | SE70  |
|----------------------|---|
| Rack Units           | Desktop with general form factor or expanded form factor for multiple POE and power options wired.  |
| Target workloads     | AI powered Edge including Computer Vision (CV)  |
| Processor            | CPU: 6-core NVIDIA Carmel Arm®v8.2 64-bit CPU<br>GPU: 384-core NVIDIA Volta™ GPU, 48 Tensor Cores   |
| Memory Maximum       | TBC   |
| Storage Maximum (TB) | TBC   |
| Product Guide        | <a href="https://news.lenovo.com/pressroom/press-releases/powerful-and-flexible-thinkedge-se70-edge-ai-platform/">https://news.lenovo.com/pressroom/press-releases/powerful-and-flexible-thinkedge-se70-edge-ai-platform/</a> |



|                      |  |   |
|----------------------|--|---|
| <b>Lenovo Models</b> | <b>SE350</b>   |  |
| Rack Units           | 0.5U also desktop, stacked, bookshelf, wall, DIN rail or ceiling mounting options  |   |
| Target workloads     | Edge computing (IoT, AI, machine learning), retail, video security, inventory management, building control, telecommunications, manufacturing, distribution. |   |
| Processor            | 1 x Intel Xeon D-2100, 16 cores max.   |   |
| Memory Maximum       | 256GB  |   |
| Storage Maximum (TB) | 16TB   |   |
| Product Guide        | <a href="https://lenovopress.com/lp1168">https://lenovopress.com/lp1168</a>  |   |

|                      |   |   |
|----------------------|---|---|
| <b>Lenovo Models</b> | <b>SE450</b>  |  |
| Rack Units           | 2U short depth 300mm or short depth 360mm   |   |
| Target workloads     | GPU rich, CPU intensive edge applications including Smart Manufacturing, Smart Cities. Smart Retail, Smart Telecom. |   |
| Processor            | 1 x Intel 3rd Generation Xeon Scalable Processor, 36 cores max.   |   |
| Memory Maximum       | 1TB   |   |
| Storage Maximum (TB) | Up to 6x 2.5" 7mm drives, up to 6x NVMe, 2xM.2 Boot drives  |   |
| Product Guide        | <a href="https://lenovopress.com/datasheet/ds0135">https://lenovopress.com/datasheet/ds0135</a>                     |   |

For more information on Edge solution visit <https://www.lenovo.com/gb/en/data-center/solutions/edge-computing/>

<https://techtoday.lenovo.com/gb/en/solutions/smb/thinkedge>

# STORAGE

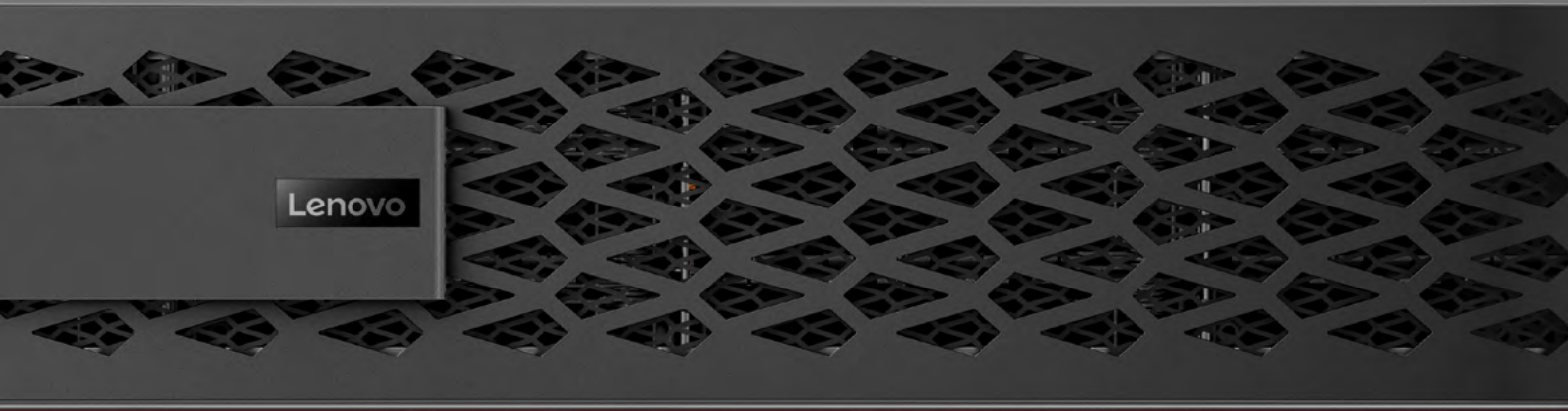
Lenovo

Lenovo offers a wide range of enterprise grade storage solutions that address the ever-growing needs of businesses, fit into existing budget and ensure data is ready when it is needed. The offering includes key data efficiency features like data compression and compaction along with thin provisioning and data encryption, all through a user-friendly interface.

Protect your business: On-board encryption, multi-factor authentication and synchronous replication headline a host of leading data management features.






ThinkSystem DM5000F



ThinkSystem




# THINKSYSTEM DM SERIES

The ThinkSystem DM Series all-flash and hybrid-flash portfolio is cloud, virtualisation and AI ready. Optimise, accelerate, and consolidate your data with SAN and NAS unified in one system.

| Sub-Series                       | DM Hybrid Systems  |  |   |
|----------------------------------|--|--|---|
| Model                            | DM7100H   | DM5000H  | DM3000H  |
| Target Workloads                 | Hybrid Cloud, Artificial Intelligence, Big Data Analytics, Engineering and Design  | Artificial Intelligence Data Analytics Enterprise Applications Engineering and Design      | Virtualization Microsoft Solutions Backup & Recovery File Services                          |
| Max Drives per HA Pair (HDD/SSD) | 720  | 144  | 144   |
| Maximum Raw Capacity per HA Pair | 11.2PB   | 720  | 720   |
| Expansions Supported             | DM240S, DM120S, DM600S   |  |   |
| Protocols Supported              | FC, iSCSI, NFS, pNFS, CIFS/SMB, S3   |  |   |
| DM Series Hybrid Software        | The ONTAP 9 software bundle includes a set of products that delivers leading data management, storage efficiency, data protection, high performance, and advanced capabilities such as instant cloning, data replication, application-aware backup and recovery, and data retention. For more details, visit the <a href="#">ONTAP datasheet</a> . |  |   |
| Datasheet                        | <a href="https://lenovopress.com/lp1270">https://lenovopress.com/lp1270</a>  | <a href="https://lenovopress.com/lp0885">https://lenovopress.com/lp0885</a>                | <a href="https://lenovopress.com/lp0884">https://lenovopress.com/lp0884</a>                 |





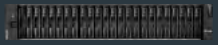




| Sub-Series                       | DM All-Flash Systems   |  |  |
|----------------------------------|--|--|--|
| Model                            | <b>DM7100F</b>    | <b>DM5100F</b>   | <b>DM5000F</b>    |
| Target Workloads                 | Wide range of enterprise workloads, including big data and analytics, artificial intelligence, engineering and design, hybrid clouds, and other storage I/O-intensive application  | Wide range of enterprise workloads, including big data and analytics, artificial intelligence, engineering and design, enterprise applications, and other storage I/O-intensive applications | Wide range of enterprise workloads, including big data and analytics, artificial intelligence, engineering and design, enterprise applications, and other storage I/O-intensive applications |
| Max Drives per HA Pair (SSD)     | 480 (48 NVMe + 432 SAS)  | 48 NVMe  | 144  |
| Maximum Raw Capacity per HA Pair | 7.37PB   | 737.28TB   | 2.2PB  |
| Expansions Supported             | DM240S, DM240N   | DM240N   | DM240S   |
| Protocols Supported              | FC, iSCSI, NFS, pNFS, SMB, NVMe/FC, S3   | SAN Only: FC, iSCSI, NVMe/FC   Unified: FC, iSCSI, NFS, pNFS, SMB, NVMe/FC, S3   | SAN Only: FC, iSCSI   Unified FC, iSCSI, NFS, pNFS, SMB, S3  |
| DM Series Software               | The ONTAP 9 software bundle includes a set of products that delivers leading data management, storage efficiency, data protection, high performance, and advanced capabilities such as instant cloning, data replication, application-aware backup and recovery, and data retention. For more details, visit the <a href="#">ONTAP datasheet</a> . |  |  |
| Datasheet                        | <a href="http://lenovopress.com/LP1271">http://lenovopress.com/LP1271</a>  | <a href="http://lenovopress.com/LP1365">http://lenovopress.com/LP1365</a>  | <a href="http://lenovopress.com/LP0911">http://lenovopress.com/LP0911</a>  |



# THINKSYSTEM DE SERIES

All-flash and hybrid-flash arrays that deliver the perfect combination of performance and economics to handle your most important data needs.

| Sub-Series                  | DE Hybrid Systems  |  |  |
|-----------------------------|--|--|--|
| Model                       | DE6000H   | DE4000H    | DE2000H   |
| Target Workloads            | Perfect fit for a wide range of enterprise workloads, including big data and analytics, video surveillance, technical computing, backup and recovery, and other storage I/O-intensive applications | Perfect fit for a wide range of enterprise workloads, including big data and analytics, video surveillance, technical computing, backup and recovery, and other storage I/O-intensive applications | Perfect fit for small offices and remote/branch offices of large enterprises that run a wide range of workloads, including big data and analytics, video surveillance, technical computing, backup and recovery, and other storage I/O-intensive application |
| Max Drives (HDD/SSD)        | 480/120  | 192/120  | 96/96  |
| Maximum Raw Capacity        | 8.64PB   | 3.46PB   | 1.73PB   |
| Expansions Supported        | Up to 7 DE240S, DE120S<br>Up to 3 DE600S   | Up to 7 DE240S, DE120S<br>Up to 3 DE600S   | Up to 3 DE240S, DE120S   |
| Protocols Supported         | FC, iSCSI, SAS   |  |  |
| DE Series Optional Software | Drive Encryption, Snapshots upgrade, asynchronous mirroring, synchronous mirroring (DE6000H and DE4000H only)  |  |  |
| Datasheet                   | <a href="https://www.lenovopress.com/LP0883">https://www.lenovopress.com/LP0883</a>  | <a href="https://www.lenovopress.com/LP0882">https://www.lenovopress.com/LP0882</a>  | <a href="https://www.lenovopress.com/LP0881">https://www.lenovopress.com/LP0881</a>  |

| Sub-Series           | DE All-Flash Systems  |   |
|----------------------|---|---|
| Model                | DE6000F   | DE4000F    |
| Target Workloads     | Perfect fit for a wide range of enterprise workloads, including big data and analytics, technical computing, and other storage I/O-intensive applications | Perfect fit for a wide range of enterprise workloads, including big data and analytics, technical computing, and other storage I/O-intensive applications |
| Max Drives (SSD)     | 120   | 120   |
| Maximum Raw Capacity | 1.84PB  | 1.84PB  |
| Expansions Supported | Up to 4 DE240S  | Up to 4 DE240S  |
| Protocols Supported  | FC, iSCSI, SAS  |   |
| Software Features    | Snapshots, Asynchronous mirroring, Synchronous mirroring, Drive Encryption  |   |
| Datasheet            | <a href="https://www.lenovopress.com/LP0910">https://www.lenovopress.com/LP0910</a>   | <a href="http://www.lenovopress.com/LP0909">http://www.lenovopress.com/LP0909</a>   |



# LENOVO FIBRE CHANNEL SWITCHES & DIRECTORS

Combining Lenovo Servers and Lenovo Storage with Lenovo Fibre Channel SAN switches and directors provides customers a complete, innovative and affordable end-to-end solution to address dynamic business needs.

Management without complexity. Simply manage your network through integrated dashboards and easy-to-use GUI.

| Model            | ThinkSystem DB630  | ThinkSystem DB720   | ThinkSystem DB620   | ThinkSystem DB610  |
|------------------|--|---|---|--|
| Target Workloads | Perfect for the most demanding of Flash and NVMe Storage workloads in midsize to large enterprise environments | Perfect for Flash and NVMe Storage workloads in midsize enterprise environments | Perfect for highly virtualized environments to meet the demands of hyper-scale, private cloud storage, and growing flash-based storage environments | Perfect for Flash and NVMe Storage workloads in small to midsize enterprise environments |
| Ports            | 96x 32Gb SFP+ ports<br>8x 128Gb QSFP+ ports  | 56x 64Gb SFP+ ports   | 48x 32Gb SFP+ ports<br>4x 128Gb QSFP+ ports   | 24x 32Gb SFP+ ports  |
| Power Supply     | Redundant Hot Swap power supplies  | Redundant Hot Swap power supplies   | Redundant Hot Swap power supplies   | One fixed power supply   |
| Datasheet        | <a href="https://lenovopress.com/lp1090">https://lenovopress.com/lp1090</a>                                    | <a href="https://lenovopress.com/lp1358">https://lenovopress.com/lp1358</a>     | <a href="https://lenovopress.com/lp0580">https://lenovopress.com/lp0580</a>   | <a href="https://lenovopress.com/lp0582">https://lenovopress.com/lp0582</a>              |

# DIRECT ATTACH STORAGE (JBOD)

## Capacity expansion for servers or Software Defined Storage

The Lenovo DAS portfolio provides traditional, as well as high density, storage for high-capacity applications, such as digital media, big data, HPC and video surveillance, at an affordable price. At near limitless scalability with disruptive levels of performance, the DAS portfolio easily satisfies your ever-growing storage needs.

| Components       | Lenovo D12XX Series (D1212/D1224)   | Lenovo High-Density D3284   |
|------------------|---|---|
| Target Workload  | Big Data, Business Analytics, Video Surveillance, Media Streaming, Private Clouds, File and Print Serving, E-mail and Collaboration, Databases, SAP HANA, Software-defined Storage, Windows Storage Spaces  | Big Data, Business Analytics, Video Surveillance, Private and Hybrid Clouds, File and Print Serving, Backup and Archiving, Software-defined Storage, Windows Storage Spaces   |
| Form Factor      | 2U  | 5U  |
| Drive Bays       | D1212: 12 LFF hot-swap drive bays; up to 8x D1212 enclosures can be daisy chained on a supported RAID adapter or HBA for a total of up to 96 LFF drives. D1224: 24 SFF hot-swap drive bays; up to 8x D1224 enclosures can be daisy chained on a supported RAID adapter or HBA for a total of up to 192 SFF drives. Intermix of SFF and LFF enclosures is supported. | 84 LFF hot-swap drive bays in two drawers. Each drawer has three drive rows, and each row has 14 drives. Up to 4x D3284 enclosures can be daisy chained on a supported adapter for a total of up to 336 LFF drives. |
| Storage Capacity | D1212: Up to 1.73 PB (96x 18TB LFF NL SAS HDDs)<br>D1224: Up to 1.47 PB (192x 7.68 TB SFF SAS SSDs)   | Up to 6.05PB (336x 18TB NL SAS HDDs)  |
| Product Guide    | <a href="https://lenovopress.com/lp0512">https://lenovopress.com/lp0512</a>   | <a href="https://lenovopress.com/lp0513">https://lenovopress.com/lp0513</a>   |



**ThinkSystem**

# TAPE ARCHIVE SOLUTIONS

## Cost-effective long-term retention or infrequent access

IBM Tape Series stores digital information on tape. Tape is the perfect choice for storing long term data, such as system back-up, disaster recovery or archive. Using less energy and space, infinitely scalable and media life of up to 30 years all speak in favour of the IBM TS Series portfolio.

| Features                  | IBM TS22XX Tape Drives   | TS2900 Tap Autoloader  |
|---------------------------|--|--|
| Target Workload           | Backup and archive   |  |
| Available Models          | <ul style="list-style-type: none"> <li>LTO Ultrium 8 6160S8E</li> <li>LTO Ultrium 7 6160S7E</li> </ul>   | <ul style="list-style-type: none"> <li>LTO Ultrium 8 6171S8R</li> <li>LTO Ultrium 7 6171S7R</li> </ul> |
| Number of drives          | 1  | 1  |
| Number of cartridge slots | 1  | 9  |
| Cartridge Capacity        | LTO 8: 12 TB native; up to 30 TB compressed (with 2.5:1 compression ratio)<br>LTO 7: 6 TB native; up to 15 TB compressed (with 2.5:1 compression ratio)              |  |
| Total Backup capacity     | Dependent on cartridge as above  | LTO 8: Up to 108 TB / up to 270 TB*<br>LTO 7: Up to 54 TB / up to 135 TB*                              |
| Data transfer rate        | LTO 8: Up to 360 MB/s native; up to 750 MB/s compressed (with 2.5:1 compression)<br>LTO 7: Up to 300 MB/s native; up to 750 MB/s compressed (with 2.5:1 compression) |  |
| Product Guide             | <a href="https://lenovopress.com/tips1305">https://lenovopress.com/tips1305</a>  | <a href="https://lenovopress.com/tips1303">https://lenovopress.com/tips1303</a>                        |

| Features                  | IBM TS4300 Tape Library  |
|---------------------------|--|
| Target Workload           | Enterprise tape automation and reliability with open system affordability. It is a high-density, highly scalable, easy-to-manage solution designed to keep data securely stored long-term, while helping reduce the costs associated with data center space and utilities. |
| Available Models          | TS4300 Tape Library Base Model 6741A1F<br>TS4300 Tape Library Expansion Model 6741A3F  |
| Form Factor               | Base module: 3U rack-mount or stand-alone.<br>Expansion module: 3U rack-mount; up to 6 expansion modules.<br>7-module library: 21U rack-mount.   |
| Number of drives          | Per module: Up to 1x full-high and 1x half-high tape drives, or up to 3x half-high tape drives.<br>Per 7-module library: From up to 7x full-high and 7x half-high tape drives to up to 21x half-high tape drives.  |
| Number of cartridge slots | Per module: 40.<br>Per 7-module library: 280.  |
| Cartridge Capacity        | LTO 8: 12 TB native; up to 30 TB compressed (with 2.5:1 compression ratio)<br>LTO 7: 6 TB native; up to 15 TB compressed (with 2.5:1 compression ratio)  |
| Total Backup Capacity     | Per module:<br>LTO 8: Up to 480 TB<br>LTO 7: Up to 240 TB<br>Per 7-module library:<br>LTO 8: Up to 3.36 PB<br>LTO 7: Up to 1.68 PB   |
| Total Backup Capacity     | LTO 8: Up to 360 MB/s native; up to 750 MB/s compressed (with 2.5:1 compression)<br>LTO 7: Up to 300 MB/s native; up to 750 MB/s compressed (with 2.5:1 compression)   |
| Product Guide             | <a href="https://lenovopress.com/lp0773">https://lenovopress.com/lp0773</a>  |

\* With 2.5:1 compression ratio

## OEM SOLUTIONS

Get on-demand OEM that lives up to your product standards. You'll have award-winning global support, innovative technology, and flexible programs that deliver at low cost.

## ON DEMAND SOLUTION OFFERINGS

Lenovo has partnered with several ISVs to offer you the following solutions through our unique ON DEMAND program. We offer complete solutions for security and video surveillance, hyperconverged infrastructure (HCI), data protection and backup/recovery, and a solution to deploy and manage containerized applications across on-premises and hybrid cloud infrastructures. Review our available solutions below.

## TEAM UP WITH AN INDUSTRY-LEADING GLOBAL PARTNER FOR YOUR OEM SOLUTION

Let our innovation work for you

Bring your solutions to market rapidly and efficiently with complementary services, resources, and capabilities from Lenovo representatives you can trust. We offer dedicated resources to manage your product from concept to launch to lifestyle, as well as financing options.

Lenovo is a global supplier of IT products and solutions. With the most reliable x86 servers in the industry, as well as the best-selling brand of laptops in history, Lenovo truly is world-class. We've shipped more than 20M servers to 160+ markets, and work with over 2000 vetted suppliers.

Lenovo OEM solutions works across numerous verticals with some of the world's largest brands around the globe to help them go to market with their products and solutions built on a solid foundation of Lenovo technology. This is why you can depend on Lenovo to be your trusted OEM partner.

# SOFTWARE-DEFINED INFRASTRUCTURE

From the simplest hyperconverged building blocks of a software-defined data center to more complex cloud solution, Lenovo offers a variety of approaches tailored for any of your need. The Lenovo ThinkAgile family of products are engineered to simplify the user experience, software-defined infrastructure is designed to adapt to changing IT needs while reducing complexity and cost created by silos in traditional IT. Pre-integrated, pre-built and pre-tested offerings accelerate application deployment and add robust capabilities to your data center faster. All ThinkAgile solutions can be easily managed through a full integration of Lenovo XClarity into the original software vendor management software for the easiest and seamless operational daily tasks.

On top, ThinkAgile Advantage provides a first-class, white glove experience with end to end data center services to make the most of your Lenovo hyperconverged ThinkAgile products and solutions.

You'll have a remote single point of contact providing direct access to Level 2 technicians skilled in hardware, software, and advanced troubleshooting to help maintain smooth data center operations 24x7.

It also includes hardware and software deployment by skilled Lenovo professionals, onsite hardware repair and is included with ThinkAgile Advantage Support, 3 to 5 years.

The Lenovo logo is positioned in the top right corner of the page. It consists of the word "Lenovo" written in a white, sans-serif font, oriented vertically within a red rectangular background.The ThinkAgile logo is located in the bottom right corner. It features the word "ThinkAgile" in a white, sans-serif font, with the "i" in "Think" having a red dot. The background behind the text is a complex, abstract pattern of red and blue lines and dots, resembling a data center or network visualization.

# THINKAGILE SX FOR MICROSOFT AZURE STACK

Lenovo ThinkAgile SX for Microsoft Azure Stack Hub delivers a pre-integrated, easy-to-deploy rack-level solution for hybrid cloud to dramatically reduce time-to-value and total cost of ownership (TCO). The solution is based on Lenovo’s industry-leading data center infrastructure and Microsoft Azure Stack Hub, an extension of Microsoft Azure Services to on-premises environments.

Suggested workloads for the ThinkAgile SX for Microsoft Azure Stack Hub include virtual desktop infrastructure (VDI), back-office applications, server consolidation, enterprise applications, databases, test and development environments, and cloud implementation. Starting with as few as four nodes to keep your acquisition costs down, the solution offers “pay as you grow” scalability as your needs grow.

The ThinkAgile SXM for Microsoft Azure Stack Hub ships fully integrated into a rack cabinet (optionally deployed in a customer provided cabinet), tested, configured, and ready to be plugged in and turned on and it is designed to integrate into an existing infrastructure effortlessly, to accelerate time to value and reduce infrastructure maintenance costs while extending Microsoft Azure technologies on-premises.

## HYPERCONVERGED INFRASTRUCTURE

Lenovo’s hyperconverged solutions leverage virtualisation and software-defined storage to natively collapse core storage, compute, and networking functions into a single pool of resources that are deployed as a scale-out cluster.

| Lenovo Models         | ThinkAgile SXM4400   | ThinkAgile SXM4400                           | ThinkAgile SXM6400 |
|-----------------------|--|--|--------------------|
| Form Factor and Nodes | 25U, 4 to 8 nodes  | 42U or customer provided rack, 4 to 16 nodes | 42U, 16 nodes      |
| Components            | 1x ThinkSystem SR630 management node<br>Up to 16x ThinkSystem SR650 hyperconverged nodes, Hybrid or All Flash<br>2x Mellanox SN2410 25GbE network switches |  |                    |
| Software              | Microsoft Windows Server 2019 with Hyper-V, Microsoft Storage Spaces Direct, Microsoft Azure Stack Hub, Lenovo XClarity Administrator Pro.                 |  |                    |
| Target workloads      | Virtualized workloads<br>DevOps - Dev/Test/QA<br>SQL as a service<br>Enterprise backup<br>IOT<br>BigData/Analytics<br>Containers                           |  |                    |
| Product Guide         | <a href="https://lenovopress.com/lp1177">https://lenovopress.com/lp1177</a>  |  |                    |



# THINKAGILE MX SERIES

Lenovo

Azure Stack HCI is an HCI host operating system from Microsoft, delivered as an Azure service, providing the latest and up-to-date security, performance and feature updates. Azure Stack HCI builds on the foundation of the Microsoft Windows Server Software Defined program and provides a certification path for Storage Spaces Direct solutions. Lenovo ThinkAgile MX Series, Appliances and Certified Nodes, refreshed with the latest Intel technology as Intel Whitley platform with Xeon Scalable 3rd gen processors, combine the Storage Spaces Direct technology included in this new host OS, with industry leading Lenovo servers to deliver HCI building blocks that build your infrastructure solutions. Lenovo ThinkAgile MX appliances map to Microsoft Azure Stack HCI Integrated Systems and ThinkAgile MX Certified Nodes map to Microsoft Azure Stack HCI Validated Nodes.

ThinkAgile MX Series are built with certified hardware components, are easily orderable as appliances, and include deployment/update features built into Windows Admin Center. Benefits like these allow businesses to deploy solutions quickly and easily.

ThinkAgile MX Appliance models includes the preloaded Azure Stack HCI operating system only and requires activation via a CSP such as Lenovo Cloud Marketplace, with the option to purchase a Windows Server 2019 Datacenter license if unlimited guest OS VMs are desired, while ThinkAgile MX Certified Node can optionally have Windows Server 2019 Datacenter preinstalled.

ThinkAgile MX Series also features the MX102x model for Edge workloads and includes:

- Fully validated and integrated hardware and firmware.
- ThinkAgile Advantage and Single Point of Support.
- Enterprise Support Services.
- Optional deployment services.

Lenovo ThinkAgile MX series with Intel processors is available as both Purley platform with Cascade Lake Intel Xeon Scalable 2<sup>nd</sup> gen processors and the latest Whitley platform featuring Ice Lake Intel Xeon Scalable 3<sup>rd</sup> gen processors models.

| Lenovo Models<br>(Intel Xeon Scalable 2nd gen platform)            | ThinkAgile MX352x-F and MX352x-H<br>(x=0 for Appliance, X=1 for Certified Node, F=All Flash, H= Hybrid)  | ThinkAgile MX102x<br>(x=0 for Appliance, X=1 for Certified Node)                    |
|--|--|---|
| Target Workload  | LOB apps, large file services, SQL, VDI, collaboration   | ROBO and Edge   |
| Form Factor  | 2U   | 1U half-wide  |
| Processor  | 2x Intel Xeon Scalable Gen 2 family processors   | 1x Intel Xeon D2100 Series  |
| GPU  | Nvidia T4, V100, AMD Radeon MI25, (up to 5x)   | Nvidia T4 (max 1)   |
| Software (included with Appliances, optional with Certified Nodes) | Appliances include the preloaded Azure Stack HCI operating system only and requires activation via a CSP. Windows Server 2019 Datacenter license is optional if unlimited guest OS VMs are desired. Certified Nodes can optionally have Windows Server 2019 Datacenter preinstalled. |   |
| Product Guide  | MX352x-F: <a href="https://lenovopress.com/lp1176">https://lenovopress.com/lp1176</a><br>MX352x-H: <a href="https://lenovopress.com/lp1175">https://lenovopress.com/lp1175</a>   | MX102x: <a href="https://lenovopress.com/lp1296">https://lenovopress.com/lp1296</a> |

ThinkAgile

| <b>LENOVO MODELS<br/>(Intel Xeon Scalable 3rd gen platform)</b>    | <b>ThinkAgile MX333x-F and MX333x-H<br/>(x=0 for Appliance, X=1 for Certified Node, F=All Flash, H= Hybrid)</b>  | <b>ThinkAgile MX353x-F and MX350x-H<br/>(x=0 for Appliance, X=1 for Certified Node, F=All Flash, H= Hybrid)</b> |
|--|--|---|
| Target Workload  | LOB apps, large file services, SQL, VDI, collaboration   |   |
| Form Factor  | 1U   | 2U  |
| Processor  | 2x Intel Xeon Scalable Gen 3 family processors   |   |
| GPU  | Nvidia T4 (up to 3x)   | Nvidia A10, A40, A100, V100, T4, Quadro RTX6000, (up to 8x)   |
| Software (included with Appliances, optional with Certified Nodes) | Appliances include the preloaded Azure Stack HCI operating system only and requires activation via a CSP. Windows Server 2019 Datacenter license is optional if unlimited guest OS VMs are desired. Certified Nodes can optionally have Windows Server 2019 Datacenter preinstalled. |   |
| Product Guide  | <a href="https://lenovopress.com/lp1511">https://lenovopress.com/lp1511</a>  | <a href="https://lenovopress.com/lp1512">https://lenovopress.com/lp1512</a>                                     |



**ThinkAgile**

## ThinkAgile HX Series

Lenovo ThinkAgile HX Series, a best-in-class hyperconverged system with Nutanix's industry leading software preloaded on both Intel-based and AMD-based Lenovo platforms, dramatically simplifies data center management, freeing up IT staff and accelerating solution deployment.

This hyperconverged solution fully integrates Lenovo servers with core Nutanix software to provide:

- Application mobility.
- Distributed storage fabric and a hypervisor (all part of Nutanix Acropolis).
- System management software (Nutanix Prism to manage the cluster and virtual machines and Lenovo XClarity to manage the hardware resources).

ThinkAgile HX series has been designed, engineered, tailored and validated for a wide range of business solutions, so that you have the freedom to run any workload, at any scale, all the time, consolidating compute, storage and virtualization software into a resource pool, easily managed in scale-out clusters through a single interface. The HX series ships from Lenovo as fully integrated system (Appliances) and as validated building blocks (Certified Nodes), now also configurable with the latest Intel technology as Intel Whitley platform with Xeon Scalable 3rd gen processors, and delivers extreme reliability, security, scalability and simplified management. As a result, you can deploy applications faster, without the hassle, while dramatically reducing total cost of ownership. Lenovo also offers businesses with SAP deployments an opportunity to reap the efficiencies and cost savings of hyperconverged clusters. By migrating HANA workloads from complex, three-tiered legacy architectures to hyperconverged clusters, customers can enjoy all the benefits of hyperconverged infrastructure. Customers with hyperconverged architectures who require real-time analytics to guide their business decisions also have the option to leverage their existing IT to deploy SAP HANA.

Lenovo ThinkAgile HX series with Intel processors is available as both Purley platform with Cascade Lake Intel Xeon Scalable 2nd gen processors and the latest Whitley platform featuring Ice Lake Intel Xeon Scalable 3rd gen processors models.

The ThinkAgile logo is positioned in the bottom right corner of the page. It features the word "ThinkAgile" in a white, sans-serif font. The letter "i" in "Think" has a red dot, and the letter "A" in "Agile" has a red outline. The background of the entire page is a vibrant orange with a hexagonal pattern, transitioning into a dark blue and purple abstract light trail graphic in the lower half.

| <b>THINKAGILE HX1000 SERIES (INTEL)</b>                            | HX1021<br>(Certified Node only)   | HX132x<br>(x=0 for Appliance, X=1 for Certified Node)  | ThinkAgile HX133x<br>(x=0 for Appliance, X=1 for Certified Node)                    |
|--|---|--|---|
| Target Workload  | Edge  | Remote Office/Branch Office (ROBO) Replication Target  | Remote Office/Branch Office (ROBO) Replication Target                               |
| Form Factor  | 1U half-width   | 1U   | 1U  |
| Processor  | 1x Intel Xeon D2100 Series  | 1x Xeon Scalable Gen 2 family processors   | 1x Xeon Scalable Gen 3 family processors  |
| GPU adapters   |   | 1x Nvidia T4   | 1x Nvidia T4  |
| Drive Bays   | Up to 3x M.2 adapters for up to 10x M.2 drives  | 4x 3,5"  | 4x 3,5" (front) + 2x 2,5" (rear)  |
| Software (included with Appliances, optional with Certified Nodes) | Nutanix Acropolis: Starter, Pro, and Ultimate editions. Nutanix Prism, Nutanix Calm (optional), Nutanix Flow (optional). Any other Nutanix licence can purchased through Lenovo and added to the configuration. |  |   |
| Product Guide  | HX1021: <a href="https://lenovopress.com/lp1384">https://lenovopress.com/lp1384</a>   | HX1320: <a href="https://lenovopress.com/lp1521">https://lenovopress.com/lp1521</a><br>HX1321: <a href="https://lenovopress.com/lp1521">https://lenovopress.com/lp1521</a> | HX133x: <a href="https://lenovopress.com/lp1481">https://lenovopress.com/lp1481</a> |

| <b>THINKAGILE HX2000 SERIES (INTEL)</b>                            | HX2320<br>(x=0 for Appliance, X=1 for Certified Node)   | ThinkAgile HX233x<br>(x=0 for Appliance, X=1 for Certified Node)                    |
|--|---|---|
| Target Workload  | Small and Medium Business   |   |
| Form Factor  | 1U  | 1U  |
| Processor  | 2x Xeon Scalable Gen 2 family processors  | 2x Xeon Scalable Gen 3 family processors  |
| GPU adapters   |   | 2x Nvidia T4  |
| Drive Bays   | 4x 3,5"   | 4x 3,5" (front) + 2x 2,5" (rear)  |
| Software (included with Appliances, optional with Certified Nodes) | Nutanix Acropolis: Starter, Pro, and Ultimate editions. Nutanix Prism, Nutanix Calm (optional), Nutanix Flow (optional). Any other Nutanix licence can purchased through Lenovo and added to the configuration. |   |
| Product Guide  | HX2320: <a href="https://lenovopress.com/lp1521">https://lenovopress.com/lp1521</a><br>HX2321: <a href="https://lenovopress.com/lp1521">https://lenovopress.com/lp1521</a>                                      | HX233x: <a href="https://lenovopress.com/lp1481">https://lenovopress.com/lp1481</a> |



|  |  |  |  |  |
|--|--|--|--|--|
| <b>THINKAGILE HX3000 SERIES (INTEL)</b>                            | HX332x (+ SAP HANA)<br>(x=0 for Appliance, X=1 for Certified Node)   | HX352x-G<br>(x=0 for Appliance, X=1 for Certified Node)  | HX372x<br>(x=0 for Appliance, X=1 for Certified Node)  | ThinkAgile HX333x<br>(x=0 for Appliance, X=1 for Certified Node)                       |
| Target Workload  | General Virtualization and VDI   | Compute Heavy with GPU   | Dense  | General Virtualization and VDI   |
| Form Factor  | 1U   | 2U   | 2U 4N  | 1U   |
| Processors   | 2x Xeon Scalable Gen 2 family processors (per Node)  |  |  | 2x Xeon Scalable Gen 3 family processors   |
| GPU adapters   |  | Nvidia M10, M60, V100, T4 (up to 5x)   |  | 2x Nvidia T4   |
| Drive Bays   | up to 12x 2,5"   | Up to 16x 2,5"   | Up to 6x 2,5" per Node   | 10x 2,5" (front) + 2x 2,5" (rear), SAS, SATA NVMe                                      |
| Software (included with Appliances, optional with Certified Nodes) | Nutanix Acropolis: Starter, Pro, and Ultimate editions. Nutanix Prism, Nutanix Calm (optional), Nutanix Flow (optional). Any other Nutanix licence can purchased through Lenovo and added to the configuration.  |  |  |  |
| Product Guide  | HX3320:<br><a href="https://lenovopress.com/lp1521">https://lenovopress.com/lp1521</a><br><br>HX3320 SAP HANA:<br><a href="https://lenovopress.com/lp1216">https://lenovopress.com/lp1216</a><br><br>HX3321:<br><a href="https://lenovopress.com/lp1521">https://lenovopress.com/lp1521</a><br><br>HX3321 SAP HANA:<br><a href="https://lenovopress.com/lp1217">https://lenovopress.com/lp1217</a> | HX3520-G:<br><a href="https://lenovopress.com/lp1522">https://lenovopress.com/lp1522</a><br><br>HX3521-G:<br><a href="https://lenovopress.com/lp1522">https://lenovopress.com/lp1522</a> | HX3720:<br><a href="https://lenovopress.com/lp1123">https://lenovopress.com/lp1123</a><br><br>HX3721:<br><a href="https://lenovopress.com/lp1131">https://lenovopress.com/lp1131</a> | HX333x:<br><a href="https://lenovopress.com/lp1481">https://lenovopress.com/lp1481</a> |
| <b>THINKAGILE HX3000 SERIES (AMD)</b>                              | HX337x<br>(x=5 for Appliance, X=6 for Certified Node)  |  |  |  |
| Target Workload  | General Virtualization and VDI, Compute Heavy with GPU   |  |  |  |
| Form Factor  | 1U   |  |  |  |
| Processor  | 2x AMD EPYC 7002 family processors   |  |  |  |
| GPU adapters   | Up to 2x Nvidia T4   |  |  |  |
| Drive Bays   | up to 12x 2,5"   |  |  |  |
| Software (included with Appliances, optional with Certified Nodes) | Nutanix Acropolis: Starter, Pro, and Ultimate editions. Nutanix Prism, Nutanix Calm (optional), Nutanix Flow (optional). Any other Nutanix licence can purchased through Lenovo and added to the configuration.  |  |  |  |
| Product Guide  | HX337x: <a href="https://lenovopress.com/lp1383">https://lenovopress.com/lp1383</a>  |  |  |  |



ThinkAgile



## ThinkAgile HX5520

| THINKAGILE HX5000 SERIES (INTEL)                                   | HX552x<br>(x=0 for Appliance, X=1 for Certified Node)   | ThinkAgile HX553x<br>(x=0 for Appliance, X=1 for Certified Node)                       |
|--|---|--|
| Target Workloads   | Big Data and High Capacity  |  |
| Form Factor  | 2U  | 2U   |
| Processor  | 2x Xeon Scalable Gen 2 family processors  | 2x Xeon Scalable Gen 3 family processors   |
| Drive Bays   | Up to 14x 3,5"  | 12x 3,5" (front) + 4x 2,5" (rear)  |
| Software (included with Appliances, optional with Certified Nodes) | Nutanix Acropolis: Starter, Pro, and Ultimate editions. Nutanix Prism, Nutanix Calm (optional), Nutanix Flow (optional). Any other Nutanix licence can purchased through Lenovo and added to the configuration. |  |
| Product Guide  | HX5520: <a href="https://lenovopress.com/lp1522">https://lenovopress.com/lp1522</a><br>HX5521: <a href="https://lenovopress.com/lp1522">https://lenovopress.com/lp1522</a>                                      | HX553x:<br><a href="https://lenovopress.com/lp1482">https://lenovopress.com/lp1482</a> |

| THINKAGILE HX7000 SERIES (INTEL) | HX752x (+ SAP HANA)<br>(x=0 for Appliance, X=1 for Certified Node)   | ThinkAgile HX753x (+ SAP HANA)<br>(x=0 for Appliance, X=1 for Certified Node)                          | HX782x (+SAP HANA)<br>(x=0 for Appliance, X=1 for Certified Node)  |
|----------------------------------|--|--|--|
| Target Workloads                 | Databases and High Performance   |  |  |
| Form Factor                      | 2U   | 2U   | 4U   |
| Processor                        | 2x Xeon Scalable Gen 2 family processors   | 2x Xeon Scalable Gen 3 family processor  | 4x Xeon Scalable Gen 2 family processors   |
| Drive Bays                       | Up to 24x 2,5"   |  |  |
| Drive Bays                       | Nutanix Acropolis: Starter, Pro, and Ultimate editions. Nutanix Prism, Nutanix Calm (optional), Nutanix Flow (optional). Any other Nutanix licence can purchased through Lenovo and added to the configuration.  |  |  |
| Product Guide                    | HX7520:<br><a href="https://lenovopress.com/lp1522">https://lenovopress.com/lp1522</a><br>HX7520 SAP HANA:<br><a href="https://lenovopress.com/lp1218">https://lenovopress.com/lp1218</a><br>HX7521:<br><a href="https://lenovopress.com/lp1522">https://lenovopress.com/lp1522</a><br>HX7521 SAP HANA:<br><a href="https://lenovopress.com/lp1219">https://lenovopress.com/lp1219</a> | HX753x (incl SAP HANA):<br><a href="https://lenovopress.com/lp1482">https://lenovopress.com/lp1482</a> | HX7820:<br><a href="https://lenovopress.com/lp1126">https://lenovopress.com/lp1126</a><br>HX7820 SAP HANA:<br><a href="https://lenovopress.com/lp0992">https://lenovopress.com/lp0992</a><br>HX7821:<br><a href="https://lenovopress.com/lp1134">https://lenovopress.com/lp1134</a><br>HX7821 SAP HANA:<br><a href="https://lenovopress.com/lp0993">https://lenovopress.com/lp0993</a> |



# THINKAGILE VX SERIES

Lenovo ThinkAgile VX Series enables you to meet requirements as being competitive in a fast-moving business environment, cost effectiveness and solution simplicity and scalability by focusing on the business outcome you require, rather than on building your infrastructure.

ThinkAgile VX Series, powered by VMware vSAN, designed on both Intel-based and AMD-based Lenovo platforms, is available in several models, Appliances and Certified Nodes, both pre-tested, pre-validated and optimized to provide the simplest way to bring a new VMware hyperconverged environment online, also granting an easy integration into an existing VMware environment.

As any Lenovo ThinkAgile solution, VX Series is delivered with the hardware configured, software installed, and the option of having Lenovo professional services to integrate it into your environment, making this solution easy to deploy, providing faster time-to-value, and reducing costs and it's now also configurable with the latest Intel technology as Intel Whitley platform with Xeon Scalable 3rd gen processors. VX Series includes powerful lifecycle management capabilities via vSphere Lifecycle Manager (vLCM) to speed deployment up, simplifying patching and updating software, with task automation.

ThinkAgile VX Series comes in a wide range of platforms and provides the flexibility to configure the system you need to meet any use-case, and supporting both All-Flash and Hybrid configurations.

Lenovo ThinkAgile VX series with Intel processors is available as both Purley platform with Cascade Lake Intel Xeon Scalable 2nd gen processors and the latest Whitley platform featuring Ice Lake Intel Xeon Scalable 3rd gen processors models.

| THINKAGILE VX 2000 SERIES (INTEL)                                  | ThinkAgile VX2320  | ThinkAgile VX 1U Certified Node   |
|--|--|---|
| Target Workload  | Small and Medium sized businesses  |   |
| Form Factor  | 1U   | 1U  |
| Processor  | Up to 2x Xeon Scalable Gen 2 family processors   | Up to 2x Xeon Scalable Gen 3 family processors                                      |
| Drive Bays   | 4x 3.5"  | 4x 3.5" SAS/SATA/NVMe   |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |   |
| Product Guide  | VX2320: <a href="https://lenovopress.com/lp1501">https://lenovopress.com/lp1501</a><br>VX 1U Certified Node: <a href="https://lenovopress.com/lp1501">https://lenovopress.com/lp1501</a>   | VX2330: <a href="https://lenovopress.com/lp1479">https://lenovopress.com/lp1479</a> |



|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>THINKAGILE VX3000 SERIES (INTEL)</b>                            | ThinkAgile VX3320<br>ThinkAgile VX 1U Certified Node   | ThinkAgile VX3330  | ThinkAgile VX3520-G<br>ThinkAgile VX 2U Certified Node   | ThinkAgile VX3530  | ThinkAgile VX372x<br>(x=0 for Appliance, X=1 for Certified Node)   |
| Target Workloads   | Compute-Heavy  |  | VDI Graphic Intense  |  | Dense  |
| Form Factor  | 1U   | 1U   | 2U   | 2U   | 2U 4N  |
| GPU Adapters   |  |  | NVIDIA Tesla M10, M60, MI25, V340, P620, P4000, V100, T4 (up to 5)   | Up to 8x, up to 150W each  |  |
| Processor  | 2x Xeon Scalable Gen 2 family processors (per Node)  | Up to 2x Xeon Scalable Gen 3 family processors   | 2x Xeon Scalable Gen 2 family processors   | Up to 2x Xeon Scalable Gen 3 family processors   | 2x Xeon Scalable Gen 2 family processors (per Node)  |
| Drive Bays   | up to 10x 2,5"   | 12x 2.5" SAS/SATA or NVMe  | Up to 16x 2,5"   | 24x 2,5"   | Up to 6x 2,5" per Node   |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |  |  |  |  |
| Product Guide  | VX3320:<br><a href="https://lenovopress.com/lp1501">https://lenovopress.com/lp1501</a><br><br>VX 1U Certified Node:<br><a href="https://lenovopress.com/lp1501">https://lenovopress.com/lp1501</a>   | VX333x:<br><a href="https://lenovopress.com/lp1479">https://lenovopress.com/lp1479</a> | VX3520-G:<br><a href="https://lenovopress.com/lp1500">https://lenovopress.com/lp1500</a><br><br>VX 2U Certified Node:<br><a href="https://lenovopress.com/lp1500">https://lenovopress.com/lp1500</a> | VX3530-G:<br><a href="https://lenovopress.com/lp1480">https://lenovopress.com/lp1480</a> | VX3720:<br><a href="https://lenovopress.com/lp1138">https://lenovopress.com/lp1138</a><br><br>VX3721:<br><a href="https://lenovopress.com/lp1131">https://lenovopress.com/lp1131</a> |

|  |  |
|--|--|
| <b>THINKAGILE VX3000 SERIES (AMD)</b>                              | ThinkAgile VX3575-G Integrated Appliance (*)<br>ThinkAgile VX7576 Certified Node (**)  |
| Target Workloads   | VDI Graphic Intensive  |
| Form Factors   | 2U   |
| GPU Adapters   | Nvidia A100, V100 (16GB/32GB), P620, T4 (up to 8x)   |
| Processor  | 2x AMD EPYC 7003 Series Processors   |
| Drive Bays   | Up to 24x 2,5"   |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |
| Product Guide  | VX3575-G: <a href="https://lenovopress.com/lp1473">https://lenovopress.com/lp1473</a><br>(this product guide is valid for whole VX AMD series, and for both Integrated Systems and Certified Nodes)  |

(\*) : Integrated System is a new naming replacing Appliance

(\*\*) : VX7576 is a common 2U Certified Node base platform that can be configured as VX3576-G, VX5576 or VX7576 Certified Node model



|  |  |   |
|--|--|---|
| <b>THINKAGILE VX5000 SERIES (INTEL)</b>                            | ThinkAgile VX5520<br>ThinkAgile VX 2U Certified Node   | ThinkAgile VX5530   |
| Target Workloads   | Storage Heavy workloads<br>Big Data/Analytics<br>Email<br>Large Databases and other high-capacity storage needs  |   |
| Form Factor  | 2U   | 2U  |
| Processor  | 2x Xeon Scalable Gen 2 family processors   | Up to 2x Xeon Scalable Gen 3 family processors                                      |
| Drive Bays   | Up to 14x 3,5"   | 16x 3,5"  |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |   |
| Product Guide  | VX5520: <a href="https://lenovopress.com/lp1500">https://lenovopress.com/lp1500</a><br>VX 2U Certified Nodes: <a href="https://lenovopress.com/lp1500">https://lenovopress.com/lp1500</a>  | VX5530: <a href="https://lenovopress.com/lp1480">https://lenovopress.com/lp1480</a> |

|  |  |
|--|--|
| <b>THINKAGILE VX5000 SERIES (AMD)</b>                              | ThinkAgile VX5575 Integrated System (*)<br>ThinkAgile VX7576 Certified Node (**)   |
| Target Workloads   | Storage Heavy workloads<br>Big Data/Analytics<br>Email<br>Large Databases and other high-capacity storage needs  |
| Form Factors   | 2U   |
| Processor  | 1x or 2x AMD EPYC 7003 Series Processors   |
| Drive Bays   | Up to 16x 3,5"   |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |
| Product Guide  | VX5575: <a href="https://lenovopress.com/lp1473">https://lenovopress.com/lp1473</a><br>(this product guide is valid for whole VX AMD series, and for both Integrated Systems and Certified Nodes)  |

(\*) : Integrated System is a new naming replacing Appliance

(\*\*): VX7576 is a common 2U Certified Node base platform that can be configured as VX3576-G, VX5576 or VX7576 Certified Node model

|  |  |   |   |   |
|--|--|---|---|---|
| <b>THINKAGILE VX7000 2P SERIES (INTEL)</b>                         | ThinkAgile VX7320-N<br>VX 1U Certified Nodes   | ThinkAgile VX7330-N   | ThinkAgile VX7520<br>VX 2U Certified Nodes  | ThinkAgile VX753x<br>(x=0 for Appliance, X=1 for Certified Node)                    |
| Target Workloads   | High-performance workloads<br>Databases<br>load balancing clusters.  |   | In-Memory Databases<br>High-performance storage   |   |
| Form Factor  | 1U   | 1U  | 2U  | 2U  |
| Processor  | 2x Xeon Scalable Gen 2 family processors   | 2x Xeon Scalable Gen 3 family processors  | 2x Xeon Scalable Gen 2 family processors  | 2x Xeon Scalable Gen 3 family processors  |
| Drive Bays   | 10x 2,5" U.2 NVMe  | 10x 2,5" NVMe   | Up to 24x 2,5"  | Up to 40x 2,5"  |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |   |   |   |
| Product Guide  | VX7320-N: <a href="https://lenovopress.com/lp1501">https://lenovopress.com/lp1501</a><br>VX 1U Certified Nodes: <a href="https://lenovopress.com/lp1501">https://lenovopress.com/lp1501</a>  | VX7330-N: <a href="https://lenovopress.com/lp1479">https://lenovopress.com/lp1479</a> | VX7520: <a href="https://lenovopress.com/lp1500">https://lenovopress.com/lp1500</a><br>VX 2U Certified Nodes: <a href="https://lenovopress.com/lp1500">https://lenovopress.com/lp1500</a> | VX753x: <a href="https://lenovopress.com/lp1480">https://lenovopress.com/lp1480</a> |

|  |  |
|--|--|
| <b>THINKAGILE VX7000 2P SERIES (AMD)</b>                           | ThinkAgile VX757x<br>(x=5 for Integrated System (*), X=6 for Certified Node)   |
| Target Workloads   | High-performance workloads<br>Databases  |
| Form Factor  | 2U   |
| Processor  | Up to 2x AMD EPYC 7003 Series Processors   |
| Drive Bays   | Up to 26x 2,5" or up to 16x 3,5" or up to 32x NVMe   |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |
| Product Guide  | VX757x: <a href="https://lenovopress.com/lp1473">https://lenovopress.com/lp1473</a><br>(this product guide is valid for whole VX AMD series, and for both Integrated Systems and Certified Nodes)  |

(\*): Integrated System is a new naming replacing Appliance

|  |  |
|--|--|
| <b>THINKAGILE VX7000 4P/8P SERIES (INTEL)</b>                      | ThinkAgile VX782x (x=0 for Appliance, X=1 for Certified Node)<br>ThinkAgile VX7821 SAP HANA  |
| Target Workloads   | Mission Critical<br>High Performance   |
| Form Factor  | 4U   |
| Processor  | Up to 8x Xeon Scalable Gen 2 family processors   |
| Drive Bays   | Up to 24x 2,5"   |
| Software (included with Appliances, optional with Certified Nodes) | <p>Software licenses that must be purchased from Lenovo:</p> <ul style="list-style-type: none"> <li>• VMware vSAN: Standard, Advanced, Enterprise, or ROBO; or</li> <li>• HCI Kit: Essentials, Standard, Advanced, Enterprise, or ROBO; or</li> <li>• VMware Horizon: Advanced or Enterprise; or</li> <li>• VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise, or for VDI.</li> </ul> <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> <li>• VMware vSphere: Standard, Enterprise Plus, or ROBO.</li> <li>• VMware Horizon: Standard (optional).</li> <li>• VMware vCenter Server: Foundation or Standard.</li> </ul> |
| Product Guide  | VX7820: <a href="https://lenovopress.com/lp1490">https://lenovopress.com/lp1490</a><br>VX7821 SAP HANA: <a href="https://lenovopress.com/lp1250">https://lenovopress.com/lp1250</a>  |

## THINKAGILE ADVANTAGE SUPPORT FOR APPLIANCES AND CERTIFIED NODES

ThinkAgile Advantage provides a first-class, white glove experience with end to end data center services to make the most of your ThinkAgile products and solutions. You'll have a remote single point of contact providing direct access to Level 2 technicians skilled in hardware, software, and advanced troubleshooting to help maintain smooth data center operations 24x7.

ThinkAgile solutions are deployed by Lenovo Professionals, eliminating the need for customer's internal resources. We have tailored deployment options for our ThinkAgile solutions that accelerate your time to value and reduce your risk of managing large implementation projects. You can also purchase onsite Hardware Installation Services to streamline the project.

After deploying a ThinkAgile solution, you'll get supported by a dedicated phone number answered by highly skilled Lenovo technicians who are focused on understanding and resolving any issue, or you can submit a request online: because you reach a technically qualified expert on the first call, we can diagnose issues faster, helping to resolve problems more accurately, in less time.

### ThinkAgile Advantage support grants

- A single point of support for managing all calls to conclusion
- End-to-end case management for the entire solution
- A dedicated Lenovo phone number to answer your calls 24x7, live answered by technical experts
- Simplified warranty entitlement
- Hardware and Software Deployment
- Response times to meet business needs (Foundation, Essential, Advanced)

Check on [Lenovo.com](https://www.lenovo.com) to know more on Lenovo Services for Data Center.

ThinkAgile

# SOFTWARE FOR YOUR INFRASTRUCTURE

Accelerate your success with Lenovo Software & Strategic Alliances

Pair your Lenovo servers, storage, and networking systems with software that creates the right solution for your workloads and your business. Providing the foundation upon which critical enterprise business applications are run. We partner with leading software providers to offer their infrastructure software with our extremely reliable, high-performance ThinkSystem and ThinkAgile servers. Infrastructure software helps businesses become more agile, secure, and service-oriented. Lenovo complements that software with reliable and high-performance hardware systems and services expertise to help you successfully integrate innovative IT infrastructure with your operations and improve your overall business.

Pillars for a modern data center:

- Operating system
- Virtualization
- Data Protection
- Management and Orchestration

Lenovo

# LENOVO XCLARITY

Lenovo XClarity is a family of tools that help administrators to deploy, manage, optimise and secure their servers, storage, networking and solutions. It also goes further by allowing hardware management to seamlessly integrate into the wider IT environment.

Lenovo's modern open approach, reduces complexity, enhances availability and ensures secure control, for even the largest of environments.

## XClarity Administrator

- Be up and running faster, with no installation needed. XClarity Administrator is a ready to go virtual appliance, supported on a range of hypervisors.
- Take control of your inventory with agentless, auto-discovery of endpoints so that managed hardware can be viewed-at-a-glance.
- Monitoring alerts and events are visible via the XClarity Administrator Dashboard, the status bar, and the alerts and events detail for the specific systems.
- Configuration management uses pattern-based configurations to quickly provision and re-provision a single or multiple end-points, with a single set of configuration settings.
- With Compliance Reports you can be sure your systems stay in the state you set them. Any changes to firmware or settings are tracked and reported on.
- Deployment of operating systems and hypervisors to bare metal servers. VMware ESXi, Windows Server, SUSE Linux Enterprise Server (SLES), Red Hat Linux, CentOS and Ubuntu images can be imported and held in a repository for images. Up to 28 OS images can be deployed concurrently.

Lenovo XClarity can be integrated into external, higher level management, automation, and orchestration platforms through open REST application programming interfaces (APIs) with Lenovo XClarity Integrators.

Find out more [here](#)



Download the free  
Lenovo XClarity  
Administrator  
[trial version](#)

## XClarity Orchestrator and XClarity Orchestrator Analytics

Scale up to 10,000 end points and manage multiple Administrator instances across multiple sites

Use powerful AI driven analytic tools to keep your environment in top condition.

Find out more [here](#)

# COMPUTING ORCHESTRATION AND CLOUD AUTOMATION

## Lenovo Intelligent Computing Orchestration (LiCO)

The convergence of HPC and AI is allowing dramatic advancements, but it is also posing non-trivial challenges.

Increasing model sophistication leads to great breakthroughs allowing solving complex tasks, but how to make proper sizing for the resource needed to train those models? How to run multiple large experiments efficiently? How to parallelize multiple training or coordinate multiple teams? And finally, how to optimize the utilization of resources without compromising the freedom of the users to experiment.

Introducing LiCO : Lenovo Intelligent Computing Orchestration (LiCO) is a software developed in-house at Lenovo that provides a simple, easy-to-use Graphical User Interface (GUI) to make accessing customer compute resources very easy for A.I. development and training. LiCO interfaces with an open-source software orchestration stack, enabling the convergence of AI onto an HPC or Kubernetes-based cluster. LiCO solves some of the challenges of AI adoption in terms of simplification of AI development workflow, cluster resources management, monitoring and utilization and thus driving more productivity both for AI users and system administrators.

### Find out more

<https://lenovopress.com/lp0858>

## Lenovo Open Cloud Automation (LOC-A)

The cloud deployment process often involves manual processes that benefit from some level of automation tools. However, this process is sequential, time-consuming and error-prone. LOC-A provides an automation platform that orchestrates the entire chain of events/tools from hardware configuration to Operating Systems installation to Cloud and networking layer deployment.

LOC-A enables customers to accelerate time to value, simplify operations and be cost effective.

LOC-A has support for Kubernetes, Red Hat® OpenShift® and VMware Cloud Foundation™. It is comprised of a set of workload, services and runtime components that generate a toolkit to deliver end-to-end cloud solutions. LOC-A supports 3rd-party networking infrastructures, such as Cisco ACI.

### Find out more

<https://lenovopress.com/ds0113>

# WINDOWS SERVER 2022

Modernize with Windows Server 2022, the cloud-ready operating system that enables hybrid capabilities for optimal value from technology investments. Prepare for the future with options like Windows Server software-defined (WSSD) datacenter solutions for greater efficiency, Secured-core solutions for help with multilayer security, Windows Admin Center for easier management, virtualization for remote desktop and apps, and containerization for flexible, modern apps.

Lenovo

## Offerings

### Windows Server 2022

- Essentials Edition - for small businesses with up to 25 users or 50 devices
- Standard Edition - for customers with low density or minimally virtualized environments
- Datacenter Edition (also available with reassignment rights) - for highly virtualized and software defined data center environments

Lenovo also offers downgrade kits from Windows Server 2022 to Windows Server 2019 and 2016. Alternatively, customers can continue to order Windows Server 2019 and the respective downgrade kits until the end of 2022.

Microsoft no longer refreshes Windows Storage Server, but Lenovo will continue to offer Windows Storage Server 2016 until the end of 2023.

### Find out more

<https://lenovopress.com/lp1079>

# RED HAT® ENTERPRISE LINUX®

Open source operating system that is the foundation from which you can scale existing apps — and roll out emerging technologies — across bare-metal, virtual, container, and all types of cloud environments. Combining Red Hat Enterprise Linux with Lenovo servers gives you exceptional reliability and military-grade security, freeing you to deliver meaningful business results through technology.

Lenovo

## Offerings

- RHEL Server provides a stable, secure, and performance-driven foundation for applications
- RHEL for Virtual Data centers allows for the deployment of unlimited guests in dense virtualized environments on supported hypervisors
- RHEL with Smart Virtualization helps organizations virtualize critical applications while delivering performance, scalability, and security.
- RHEL for HPC enables the creation, management and usage of a high-performance computing (HPC) cluster.



Find out more

<https://lenovopress.com/lp1236>

# SUSE® LINUX ENTERPRISE SERVER

A scalable, secure, and modular operating system, SUSE Linux Enterprise Server helps simplify multi-platform (traditional, software defined and cloud) environments, makes traditional IT infrastructure more efficient and provides an engaging platform for developers. As a result, you can easily deploy and transition business-critical workloads across on-premise and public cloud environments.

## Offerings

- SLES x86 provides a stable, secure, and performance-driven foundation for applications on x86 servers
- SLES for HPC - provides a parallel computing platform for high performance data analytics workloads such as artificial intelligence and machine learning
- SLES for SAP - is optimized for SAP HANA, SAP NetWeaver and SAP S/4HANA environments



Find out more

<https://lenovopress.com/lp1264>



# VIRTUALIZATION

Improve system utilization, reduce capital and operating costs, and minimize or eliminate downtime when running virtualization software on Lenovo servers. environments, makes traditional IT infrastructure more efficient and provides an engaging platform for developers. As a result, you can easily deploy and transition business-critical workloads across on-premise and public cloud environments.

Lenovo

## VMware vSphere

Server virtualization software that allows you to consolidate your data center hardware and enable business continuity through server virtualization, reduce CapEx by increasing the use of existing hardware and simplify management of infrastructure at scale, ensure business continuity by reducing or eliminating downtime, and extend your on-premises environment to a vSphere-based public cloud for a seamless hybrid cloud experience.

## Offerings

- Standard - Server consolidation and business recovery
- Enterprise Plus - Resource management, enhanced application availability and performance
- Essentials Kit - Server virtualization and consolidation
- Essentials Plus Kit - Server virtualization and consolidation plus business continuity
- Remote Office Branch Office (ROBO) Standard - Remote server virtualization with business continuity and backup features
- ROBO Advanced - Remote server virtualization with business continuity and backup and standardization of host configurations
- Acceleration Kit - Server consolidation and no planned downtime
- Desktop - client virtualization



Find out more

<https://lenovopress.com/lp1265>

# DATA PROTECTION

## Veeam® Availability Suite™

Provides the ability to manage virtual, physical and cloud-based workloads from a single console. Includes a host of advanced features which provide portability, scalability and enterprise grade security & control of your most important asset - data.

### Offerings

- Enterprise Plus - everything in Enterprise plus full backup I/O control, full backup from storage snapshots, full built-in WAN acceleration, and plug-in for SAP HANA



Find out more

<https://en.resources.lenovo.com/solution-brief-documents>

Lenovo

# ENGINEERED SOLUTIONS

Accelerate cloud service delivery, extract insights from your data, and improve business outcomes with Lenovo Engineered Solutions. Developed to simplify configuration and deployment, Lenovo Engineered Solutions are designed, tested and certified to provide faster time-to-value and lower TCO. To meet your desired business outcomes, Lenovo partners with market leaders and technology leaders worked to develop high-performance, scalable offerings based on foundational ThinkSystem platforms and tested for enterprise applications matching your needs.



[Cloud Solutions](#)



[Database Solutions](#)



[Big Data and Analytics](#)



[High Performance Computing](#)



[Business Applications](#)



[Client Virtualisation](#)

To find out more about which engineered solution would suit you please visit <https://www.lenovo.com/gb/en/future-defined>

# LENOVO DSS-G



Lenovo Distributed Storage Solution for IBM Spectrum Scale (DSS-G) is a software-defined storage (SDS) solution for dense scalable file and object storage suitable for high-performance and data-intensive environments.

DSS-G combines the performance of the Lenovo ThinkSystem SR650 servers, Lenovo D1224 and D3284 storage enclosures, and industry leading IBM Spectrum Scale software to offer a high performance, scalable building block approach to modern storage needs.

Lenovo DSS-G is delivered as a pre-integrated, easy-to-deploy rack level engineered solution that dramatically reduces time-to-value and total cost of ownership (TCO). All DSS-G base offerings described in this product guide are built on Lenovo ThinkSystem SR650 servers, Lenovo Storage D1224 Drive Enclosures with high-performance 2.5-inch SAS solid-state drives, and Lenovo Storage D3284 High-Density Drive Enclosures with large capacity 3.5-inch NL SAS HDDs.

Combined with IBM Spectrum Scale (formerly IBM General Parallel File System, GPFS), an industry leader in high-performance clustered file system, you have an ideal solution for the ultimate file and object storage solution for HPC and Big Data.

Lenovo DSS-G

| Project             | DSS-G for IBM Spectrum Scale   |
|---------------------|--|
| Solution Definition | <ul style="list-style-type: none"> <li>• 2 ThinkSystem SR650 Servers</li> <li>• Software: RedHat Enterprise Linux, IBM Spectrum Scale for DSS Standard or Data Management Edition</li> <li>• 2, 4 or 6 Storage Enclosures</li> <li>• Lenovo D3284 12Gb JBOD (5U84) or 4TB, 6TB, 8TB, 10TB, 12TB NL-SAS</li> <li>• 1, 2, 4 or 6 Storage Enclosures • Lenovo D1224 12Gb JBOD (2U24 or 0.3TB - 1.8TB SAS, 0.4TB - 3.8TB SSD</li> <li>• Connectivity 10GbE/25GbE/40GbE/100GbE/FDR IB/EDR IB/OPA</li> </ul> |
| Target Market       | HPC, Big Data, Cloud, Media & Entertainment, Digital Surveillance  |
| Target Workloads    | HPC and Distributed File Systems   |
| Value Proposition   | High storage density and I/O performance with superior availability, reliability and resiliency  |



For more info see this link  
<https://lenovopress.com/lp0837>

# LENOVO SHOWCASE

Lenovo

## LENOVO EXECUTIVE BRIEFING CENTERS – WHERE INNOVATION NEVER STOPS!

At Lenovo, we believe collaboration is the path to innovation. Come take a peek at the innovative solutions for the datacenter & beyond that enable you to make the most of your data, utilize hybrid cloud environments and maximize the skills within your organization to respond faster to new business demands.

Our Executive Briefing Center in Stuttgart (Germany) provides an interactive environment for discussions based on customized agendas that cater to the specific requirements of the customers and business partners visiting the center.

Equipped to showcase the latest technology, the briefing center offers a range of experiences from one-on-one tailored visits to multi-client seminars, all of which offer the opportunity to:

### Share

Discuss specific business challenges, analyze evolving industry trends, and share Lenovo's technology strategy and our broad offering roadmap

### Experience

Explore first-hand Lenovo's cutting-edge solutions from device to datacenter and edge, whilst meeting experts from product teams – ready to support you

### Prove

Connect with Lenovo and our Technology Partners' experts in-center and remotely and get remote access to Lenovo's infrastructure to test industry leading solutions for your business

### Interact

Host educational events for your business, or book in-depth hardware and software demonstrations for your customers

We look forward to welcoming you at the Lenovo Executive Briefing Center. To explore options that best suit your unique requirements and schedule a client briefing, please contact your Lenovo Sales Team or email: [emeaebc@lenovo.com](mailto:emeaebc@lenovo.com)

# LENOVO SERVICES

Maximize your ROI with award-winning services that ensure you have the best solution for every stage of your IT lifecycle

Lenovo offers a comprehensive portfolio of services that support the full lifecycle of a customer's Lenovo IT assets with support at every stage; plan, fulfil, deploy, support, optimise, and end of life. With Lenovo Professional Services expertise we can help clients gain the most from their technology investment.

## Solution Services

From the simple to the complex, our experts work with you to find the right solution for your one-of-a-kind strategic and business needs.

- Assessment Services.
- Design Services.

## Implementation Services

Accelerate your time to productivity so you can focus on taking care of your customers and growing your business.

- Hardware Installation.
- Deployment Service.
- Factory Integrated Service.

## Support Services

Around the world and around the clock, our experts are standing by 24x7 to safeguard your IT investment.

- Premier Support.
- Preconfigured Support.
- Managed Services.
- Technical Account Manager.
- Enterprise Server Software Support.

For more information on Lenovo Services please visit <http://www.lenovo.com>.

Lenovo

ThinkSystem ThinkAgile

The background features a dark grey grid of triangles. Overlaid on this are vibrant, multi-colored light trails in shades of orange, red, green, blue, and pink, creating a dynamic, abstract pattern.

**ThinkSystem ThinkAgile**

To learn more about Lenovo server, storage and enterprise services portfolio, contact your Lenovo representative or Business Partner, or visit [lenovo.com/data center](https://lenovo.com/data_center) and [lenovopress.com](https://lenovopress.com)

Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. Product images shown are not to scale. Warranty: For a copy or applicable warranties, write to: Warranty Support Dept., EMEA Services, Lenovo, Einsteinova 21, 851 01 Bratislava, Slovakia. Lenovo makes no representation or warranty regarding third-party products or services. Trademarks: Lenovo, the Lenovo logo, System x, ThinkServer, ThinkSystem, ThinkAgile are trademarks or registered trademarks of Lenovo. AMD, and the AMD Arrow logo, AMD EPYC™ and combinations thereof are trademarks of Advanced Micro Devices, Inc. Other company products and service names may be trademarks or service marks of others. Ultrabook, Celeron, Celeron Inside, Core Inside, Intel, Intel Logo, Intel Atom, Intel Atom Inside, Intel Core, Intel Inside, Intel Inside Logo, Intel vPro, Itanium, Itanium Inside, Pentium, Pentium Inside, vPro Inside, Xeon, Xeon Phi, and Xeon Inside are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

© 2022 Lenovo. All rights reserved.

Visit [www.lenovo.com/lenovo/us/en/safecomp.html](https://www.lenovo.com/lenovo/us/en/safecomp.html) periodically for the latest information on safe and effective computing.

To learn more about Lenovo server, storage and enterprise services portfolio, contact your Lenovo representative or Business Partner, or visit [lenovo.com/data center](https://lenovo.com/data_center) and [lenovopress.com](https://lenovopress.com)



Please Recycle