

# Processor & Memory Options for ThinkSystem Servers

## Reference Information

### Processors

Intel Xeon Scalable Family is the choice for the most scalable and reliable performance with the greatest variety of features and integrations designed to meet the needs of the widest variety of workloads.

#### Intel® Xeon® Processor Scalable Family

ThinkSystem server platforms incorporate the new third-generation Intel Xeon Processor Scalable Family (formerly codenamed "Ice Lake") to enable critical business workloads and applications. The new Intel scalable design provides significant improvement in performance, advanced reliability, scalability and hardware-enhanced security. Enhancements include higher per-core performance, greater memory bandwidth, expanded I/O, and improved security.

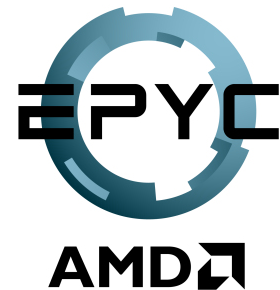
Learn more:

- [Intel Xeon Scalable Processor Reference for Lenovo ThinkSystem Servers](#)



#### AMD® EPYC™ 7003 and 7002 Processor Family

AMD EPYC 7003 and 7002 Generation Processors (formerly codenamed "Milan" and "Rome" respectively) are the world's first 7nm datacenter CPUs with up to 64 cores and 128 lanes of PCIe Gen 4. Suitable to tackle dense virtualization, hosting and software-defined storage applications, they deliver up to 2x performance and 4x floating point capability versus the previous generation.



### Memory

Lenovo TruDDR4 memory enhances and improves performance of data intensive workloads such as big data analytics, cloud and high performance computing. Optimized and qualified for all Lenovo ThinkSystem servers.

## ThinkSystem TruDDR4 Memory

Memory reliability, performance and quality that are even more critical today as customers utilize greater memory capacities for Big Data analytics, cloud computing, virtualization, database and High Performance Computing workloads. Lenovo offers the TruDDR4 Memory portfolio for ThinkSystem servers which help dramatically improve workload performance. New memory enhancements include a speed increase to 2933 MHz and the new Intel Optane DC Persistent Memory.



Learn more:

- [ThinkSystem Memory summary](#)
- [ThinkSystem Memory Configurator](#) (for V1 and V2 servers only)

## Related product families

Product families related to this document are the following:

- [Memory](#)
- [Processors](#)

## Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service. Lenovo may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Lenovo (United States), Inc.  
8001 Development Drive  
Morrisville, NC 27560  
U.S.A.  
Attention: Lenovo Director of Licensing

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Lenovo may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary. Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk. Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

© Copyright Lenovo 2026. All rights reserved.

This document, LP0764, was created or updated on June 15, 2021.

Send us your comments in one of the following ways:

- Use the online Contact us review form found at:  
<https://lenovopress.lenovo.com/LP0764>
- Send your comments in an e-mail to:  
[comments@lenovopress.com](mailto:comments@lenovopress.com)

This document is available online at <https://lenovopress.lenovo.com/LP0764>.

## Trademarks

Lenovo and the Lenovo logo are trademarks or registered trademarks of Lenovo in the United States, other countries, or both. A current list of Lenovo trademarks is available on the Web at <https://www.lenovo.com/us/en/legal/copytrade/>.

The following terms are trademarks of Lenovo in the United States, other countries, or both:

Lenovo®

ThinkSystem®

The following terms are trademarks of other companies:

AMD and AMD EPYC™ are trademarks of Advanced Micro Devices, Inc.

Intel®, the Intel logo, Intel Optane®, and Xeon® are trademarks of Intel Corporation or its subsidiaries.

Other company, product, or service names may be trademarks or service marks of others.