

Next-Generation Lenovo ThinkSystem™ Servers Accelerate a Broader Range of Business-Critical Applications

Lenovo ThinkSystem servers powered by 3rd Gen Intel® Xeon® Scalable processors



Lenovo servers achieved the highest level of **99.999% reliability** among all mainstream server platforms.¹

An Unbeatable Base

Lenovo ThinkShield provides holistic protection with an end-to-end approach to security, including supply chain and manufacturing processes. Building on this solid security foundation, new Lenovo servers deliver enhanced ThinkShield features that lock down data at enterprise levels.

- Standards-compliant NIST SP800-193 Platform Firmware Resiliency (PFR) with hardware Root of Trust (RoT) provides key platform subsystem protection against cyberattacks, unauthorized firmware updates and corruption.
- Discrete security processor testing validated by leading third-party security firms – available for customer review, providing unprecedented transparency and assurance.

Protect and Serve

Intel® Software Guard Extensions (Intel® SGX) is the most researched, updated and battle-tested hardware-based Trusted Execution Environment (TEE) available for the data center today.² SGX helps protect data and application code in real time from the edge to the data center and multi-tenant public cloud, enabling enhanced collaboration using shared data – without compromising privacy.

Transparency and Assurance

Intel® Total Memory Encryption (Intel® TME) helps protect against physical attacks by providing bulk encryption of the entire system memory, including customer credentials, encryption keys and other IP or personal information on the external memory bus.

Reads and Rewrites

Intel® Platform Firmware Resiliency (Intel® PFR) detects and corrects firmware attacks – including permanent denial-of-service attacks – before they can compromise or disable the machine.

Fast and Fortified

Intel® Crypto Acceleration coupled with software innovations, deliver breakthrough performance for the industry's most widely deployed cryptographic algorithms, so customers no longer have to choose between speed and security.



ThinkSystem

Lenovo ThinkSystem™ servers with 3rd Gen Intel® Xeon® Scalable processors – the smarter way to protect your IT investment.

¹ ITIC 2020 Global Server Hardware, Server OS Reliability Report. Information Technology Intelligence Consulting Corp. (ITIC). Posted on Lenovo.com [here](#). February/March 2020.

² As of August 2020, hundreds of research papers have referenced Intel® SGX.