

Smarter manufacturing: Accelerate your AI initiatives

Purpose-built Lenovo enterprise AI solutions powered by AMD deliver performance, reliability, and security



Now's the time to optimize manufacturing processes

The future of manufacturing is here — the Fourth Industrial Revolution (4IR). The explosion in adoption and use cases for artificial intelligence (AI) is pushing companies to find new ways to get more done, from streamlining design to bringing smart factory solutions to the edge, improving productivity, efficiency, and profitability.

Today, manufacturers are looking for new tools they can use to improve product quality, optimize and automate processes (including adding robotics), and protect sensitive data. Infrastructure breakthroughs from advanced technology partners like Lenovo and AMD are delivering faster, more robust options to not only add more power but also to move the processing of data closer to the edge where data is collected.

A smarter path to AI

Manufacturing and warehouse optimization solutions featuring Lenovo ThinkSystem servers powered by industry leading GPUs deliver flexibility, reliability, and efficiency. Lenovo and AMD are trusted partners with a legacy of quality and design innovation, and backed by Lenovo's software, services, and AI expertise to help your organization thrive.



of organizations believe **AI-powered devices enhance employee productivity** and experience, with a significant majority either already piloting or planning adoption.¹

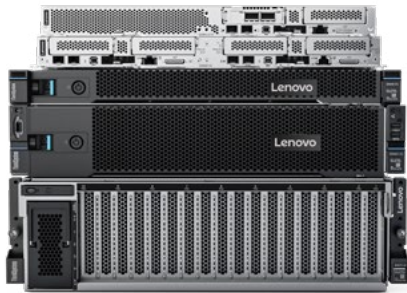


**Smarter
technology
for all**

Lenovo

Accelerate time to value with Lenovo and AMD

Lenovo and AMD are creating new ways to help solve manufacturers' problems and new opportunities that transform the way we live, learn, and work. We help deliver meaningful insights and end-to-end solutions and services at any scale, through accessible and reliable technology. Lenovo has pre-validated AI solutions for its servers that are powered by AMD EPYC™ processors. These solutions can help accelerate deployments and help reduce time to ROI. See how our partnership can help you meet the intensive performance demands of AI while improving efficiency and controlling total cost of ownership.



ThinkSystem servers powered by AMD EPYC™ processors

Gain productivity with right-sized AI solutions

The world of manufacturing is moving faster than ever before. And you need to be able to react faster and implement new processes quickly to meet your customers' needs. You're generating lots of data, but you also need to optimize the processes and infrastructure that help you speed decision-making. That's where AI can help most. Putting serious compute power closer to data sources and improving connectivity gives you the framework to take next steps sooner.

Address your AI data center needs across the full spectrum of AI workloads with the right mix of CPUs and GPUs, compute option (HPC, x86, Edge), software and expertise from Lenovo and AMD. These pre-tested and integrated solutions are available to deliver a turnkey hybrid AI solution. Designed for various size AI workloads wherever you need them: on-prem, in the cloud, at the edge, or at colocation facilities.

Lenovo servers have a well-earned reputation for reliability². When combined with AMD processors and industry-leading GPUs, our servers can help you address your manufacturing-centric workloads to help you drive more business value.

Security features by design

Lenovo is recognized for the most secure servers in the industry.⁴ Lenovo ThinkSystem servers utilize immutable Silicon Root of Trust, a secure supply chain and Lenovo-owned global manufacturing.

AMD Infinity Guard, a key feature of AMD EPYC processors, further enhances the security of Lenovo servers to help protect vital data.

Supplier security standards

Lenovo's Trusted Supplier Program specifies supplier security requirements and carefully screens suppliers to ensure they meet stringent security standards.

AMD EPYC™ processors

AMD creates high-performing CPUs that power Lenovo x86 servers. Together, this partnership holds over 150 world records for performance.³



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Operate your AI efficiently

Together, Lenovo and AMD help enable you to scale and evolve your AI operations, optimizing your energy consumption, performance, and costs. Flexibly manage your AI infrastructure with modular designs and as-a-service options.



Energy efficient

Lenovo servers provide innovative air, liquid-to-air, and direct water-cooling options for AI installations. Powered by AMD processors, **Lenovo ThinkSystem SR675 V3 servers** feature Lenovo Neptune® liquid-to-air hybrid cooling technology, while **Lenovo ThinkSystem SD665 V3** and **SD665-N V3** servers with Lenovo Neptune direct water cooling capture up to 100% of system heat⁵ reducing power consumption and enabling GPU-optimized AI solutions. Lenovo Neptune is also available for **ThinkSystem SR645 V3** and **SR665 VS** for CPU cooling. Lenovo servers powered by AMD EPYC™ processors are among the world's most energy efficient with industry leading performance per watt.⁶



Streamlined management

XClarity One powered with AIOps delivers a hybrid-cloud unified management architecture to support servers and edge devices in a single, user-friendly UX/UI interface. With AI-powered **Smarter Support** capabilities included, XClarity One customers gain access to AIOps engines that leverage ML for predictive maintenance and intelligent analytics to enable administrators to automate menial management tasks and focus on business-critical issues.



AI expertise

Lenovo TruScale for HPC delivers on-prem and hybrid cloud HPC options in a flexible financial model, enabling the speed and security of private cloud with the flexibility and scalability of public cloud. Easily meet the changing demands of your business, including powerful AI initiatives, with scalability on the latest technology, including advanced GPUs and a dedicated HPC systems administrator.

The **Lenovo AI Services Center of Excellence** (COE) helps accelerate AI solutions from ideation to reality quickly, cost-effectively, and at scale.

The **Lenovo AI Fast Start** helps prove your business value of use cases with a ready-for-product AI solution that uses your data and focuses on your specific needs.

Premier support for data centers: Gain direct access to Lenovo's experienced technicians for faster diagnosis, a single point of contact, and end-to-end problem resolution, including third-party collaborative software support and assistance.

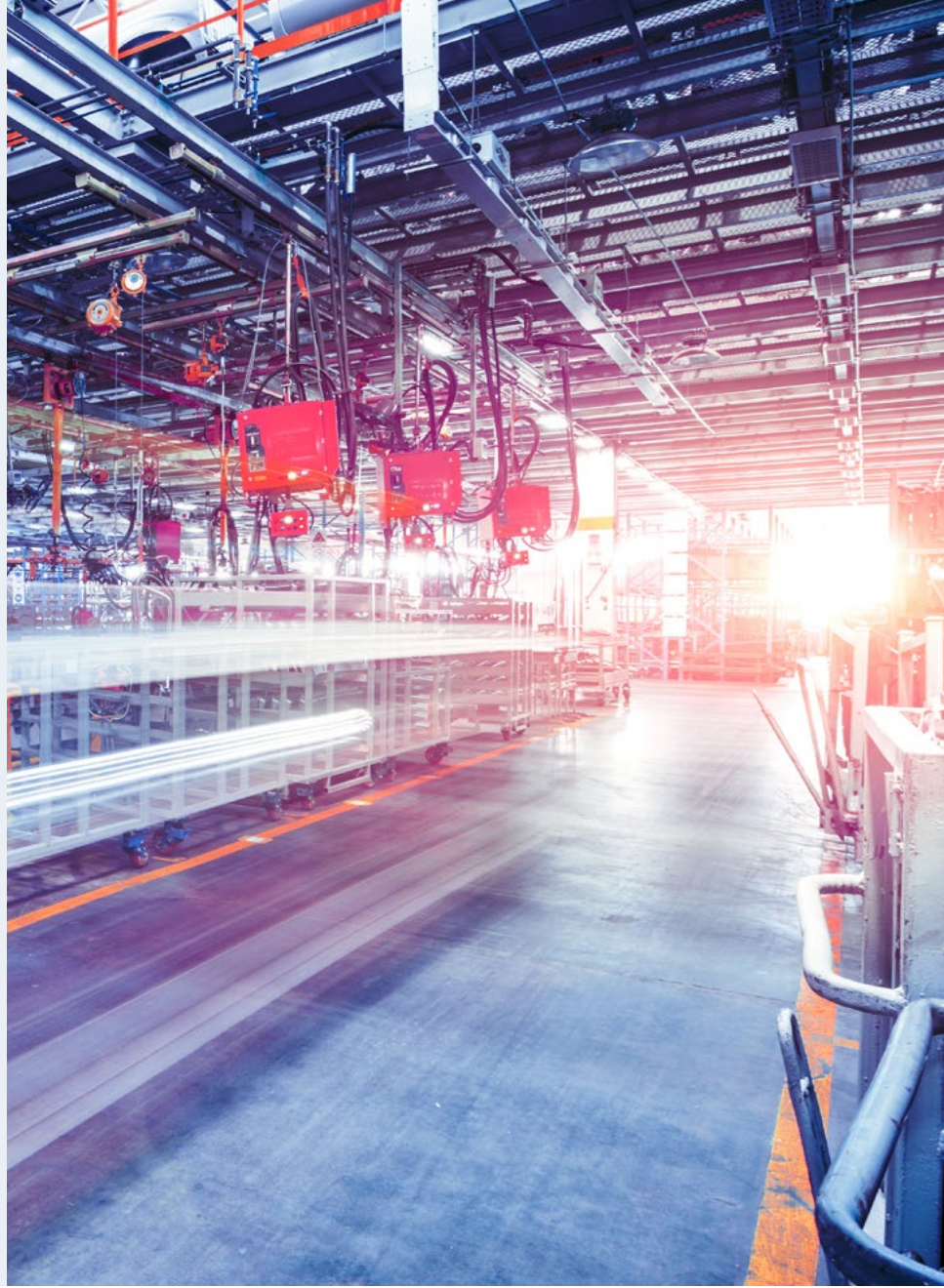


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Lenovo and AMD advanced technology: Working for you

Lenovo and AMD are trusted partners to IT leaders around the world. Lenovo hybrid AI solutions, powered by AMD processors, leverage our global team of AI experts, with security and privacy at the forefront of the process. For 10 years in a row, Lenovo servers have ranked as the industry's most reliable x86 platforms.² Our deep experience in scalable hybrid cloud infrastructure can help your organization move to the forefront of innovation.



To learn more, visit the [Lenovo and AMD partner page](#) or contact your Lenovo sales representative.

Sources

- 1 Lenovo, "Lenovo Global CIO Playbook 2025," February 2025
- 2 Information Technology Intelligence Consulting, "ITIC 2024 Global Server Hardware, Server OS Reliability Report," November 2024
- 3 AMD, "AMD EPYC™ Processor World Records," March 2025
- 4 Information Technology Intelligence Consulting, "ITIC 2023 Global Server Hardware, Server OS Reliability Report," September 2023
- 5 Lenovo, Lenovo ThinkSystem SD665 V3 Neptune DWC Server Product Guide, February 2025
- 6 SP5-143A: SPECrate®2017_int_base comparison based on performing system published scores from www.spec.org as of 6/13/2013. 2P AMD EPYC 9754 scores 1950 SPECrate®2017_int_base is higher than all other 2P servers. 1P AMD EPYC 9754 scores 981 SPECrate®2017_int_base score (981.4 score/socket) is higher per socket than all other servers. SPEC®, SPEC CPU®, and SPECrate® are registered trademarks of the Standard Performance Evaluation Corporation. See www.spec.org for more information.

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