

Deliver AI everywhere.

Lenovo and Intel have partnered to deliver AI everywhere — a fast, secure, cost-effective way to tap into the potential of AI.



Lenovo ThinkSystem SR650 V3 servers built on 5th Gen Intel® Xeon® Scalable processors designed for AI.

**Smarter
technology
for all**

Lenovo



The demand for AI is surging

IT leaders want to put AI to work, and their organizations are willing to invest. 65% of businesses are either accelerating existing AI strategies or creating their first AI strategy.¹ Among CIOs, the race to implement AI is even more urgent.



80%
of CIOs say they're exploring AI implementation.



43%
say it's a top priority.^{2,3}

Why is AI adoption surging?

40%

Accenture estimates that 40% of all employees' working hours can be augmented or automated by generative AI.⁴

23%

Using AI for underwriting, auto lenders have reported cutting their losses by 23% annually.⁵

According to the National Bureau of Economic Research,



AI could save 5%-10%
a year in healthcare industry spending
(up to \$360 billion).⁶

Generative AI could increase productivity in the retail industry by



up to 2%
of annual revenues
(up to an additional \$660 billion).⁷



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The upside of AI seems too good to ignore.

So, what's the holdup?



Anticipated expenses

Developing an AI model unique to your organization's needs may be the ultimate goal for streamlining operations and unlocking unique insights. Using existing models trained on public data, companies can put inference AI to work delivering actionable insights in a fraction of the time.

Availability of AI expertise

Finding the expertise needed to plan, implement, and maintain AI infrastructure is a massive hurdle for most organizations. Already, 36% of IT professionals in finance say finding and keeping experts is a big obstacle to implementing AI.⁸

Effort required to deliver practical applications

In order to deliver that GenAI performance to entire organizations, inferencing must move to the edge. Gartner predicts this is where organizations will go, projecting that 55% of all data analysis by deep neural networks will occur at the point of capture in an edge system by 2025.⁹ That's up from less than 10% just a few years ago.⁹ IT leaders are concerned about the effort of delivering AI. Of organizations that have adopted AI, available models and tools were the number one challenge in their efforts.¹⁰

Inference makes all the difference

IT leaders are turning to AI inference models, built from existing trained models and incorporating proprietary dynamic data, to transform their organizations. Focusing on inferencing delivers custom insights derived from the proprietary data while avoiding the long development timeline required for training a new model. Lenovo and Intel have teamed up to deliver purpose-built solutions from the edge to the cloud and enable AI inferencing everywhere.



Discover how to put the power of AI inferencing to work for your organization with solutions like the Lenovo ThinkSystem SR650 V3, powered by 5th Gen Intel® Xeon® Scalable processors.

Unlock data insights faster

Using smarter AI inferencing solutions, organizations get actionable insights in a fraction of the time while lowering the data and performance requirements to the levels of mainstream server technology. The next generation of processors enhances server performance with built-in acceleration, removing the need for GPUs.

Faster can also be efficient

These purpose-built solutions not only deliver greater performance, but also capitalize on other efficiencies. The latest Intel® Accelerator Engines help improve performance across AI, data analytics, networking, and storage workloads. Experience **up to 10x higher performance** per watt using built-in accelerators on targeted workloads.¹²

Intel® AI and OpenVINO™ toolkit simplify deep learning inference deployment for hundreds of pretrained models.

With Intel® Granulate™, you can improve performance and energy efficiency and **reduce costs by up to 45%** with no code changes or R&D efforts by optimizing OS and runtime resource management.¹³



#1

Lenovo ThinkSystem has been rated #1 in server reliability for 9 years in a row.¹¹



Lenovo ThinkSystem has also been rated #1 in X86 server security for 4 years in a row.¹¹

Up to 14x

5th Gen Intel® Xeon® Scalable processors with built-in accelerators deliver up to 42% better AI performance than the previous generation and up to 14x better AI inference performance than 3rd Gen Intel® Xeon® Scalable processors.¹²

Ensure success with AI transformation expertise

Lenovo provides dedicated AI expertise and tailored resources to ensure you get the most from your AI implementation.



Lenovo AI Discover Center of Excellence

provides access to Lenovo data scientists, AI architects, and engineers to help you evaluate solutions, conduct proofs of concept (POCs), and optimize infrastructure configurations.

Lenovo Professional Services can assess and design the best way to manage end-to-end architecture, hardware installation, data migration, and system deployment — accelerating your time to productivity. AI workshops help guide your journey and ensure your success. Lenovo Professional Services can also provide expertise and global coverage to address resource gaps.

Lenovo Managed Services close resource gaps, improve performance, limit downtime, and restore your peace of mind by helping you control and predict your costs, system availability, and capacity.

Lenovo Infrastructure Services deliver these global end-to-end infrastructure management and lifecycle services along with a dedicated **Lenovo Customer Success Manager**. Your single point of contact helps simplify support to keep up with the demands of modern workloads and applications.

Accelerate deployment

Lenovo AI Innovators is an ecosystem of validated turnkey AI solutions from cutting-edge partners to accelerate development and implementation.

50+ AI solution providers

165+ enterprise AI solutions

180+ countries served

30+ channel partners



These state-of-the-art enterprise AI solutions enable faster, safer, more efficient deployments from pocket to core to cloud. The Lenovo AI Innovators program brings best-of-breed AI software and solution providers vetted by our data science team and validated on Lenovo infrastructure.



See AI innovation in action

Discover how the Lenovo AI Innovators Program, with the help of Intel® Xeon® Scalable processors and the OpenVINO™ toolkit, helped C2RO offer a solution for a new class of video analytics AI systems.

[Read more](#)



92%

of CIOs say they would likely consider adding new as-a-service offerings over the next two years.¹⁴

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Pay as you go

Lenovo TruScale offers the flexibility of a scalable pay-as-you-go model — freeing up resources to accelerate your initiatives.

Meet inferencing demands with predictable simplicity

Lenovo TruScale Infrastructure as a Service (IaaS) offers all the power and strategic advantages of the latest hardware through a pay-as-you-go business model.

TruScale's end-to-end service includes initial consultation, analysis, and configuration through ongoing assessment and maintenance services, and remote monitoring and system health to billing and administration. Pricing structures are simple and include all associated services in one monthly bill.



Optimizing your data center with **Lenovo ThinkSystem** servers, powered by 5th Gen Intel® Xeon® Scalable processors for AI inference — along with Lenovo TruScale Infrastructure as a Service (IaaS) — can help reduce CO₂e and power by up to 20%.

TruScale IaaS accurately reports on power and CO₂ emissions, enabling managed infrastructures to be designed, implemented, and tuned not only for performance and capacity, but also for CO₂ emissions.

Partnering with Lenovo means buying responsibly

According to Climate Neutral Group, data center computing generates around 2% of the world's greenhouse gas emissions, putting it on par with the airline industry.¹⁵ Lenovo is committed to reducing the environmental impact of its products, harnessing innovation to increase sustainability.

- ✔ **Lenovo is committed to reaching net-zero emissions by 2050 and reducing absolute scope 1 and scope 2 GHG emissions 50% by 2030.**¹⁶
- ✔ **Lenovo topped the Green500 list with the world's most energy-efficient supercomputer.**¹⁷
- ✔ **Lenovo was awarded Best Value Chain Initiative and Best Green Energy Product for Lenovo Neptune™ at the 2024 CRN Sustainability in Tech Summit.**¹⁸



Sustainably minded products

- Lenovo Neptune™ direct water cooling delivers 95% heat removal efficiency and up to 40% lower power consumption.¹⁹
- Our low-temperature solder (LTS) technology benefits the environment while improving reliability, efficiency, and cost.¹⁹
- All company-owned manufacturing sites (not including new locations with less than one year of labor data) have undergone audits by independent auditors using the latest version of the Responsible Business Alliance (RBA) Standards.
- Intel® Xeon® processors have built-in telemetry tools, like Intel® Data Center Manager (Intel® DCM), to help you monitor and manage CPU resources to better govern costs. The latest Intel® Accelerator Engines and Intel® Granulate help boost energy efficiency and reduce costs.

Backed by solid services

- Lenovo's low carbon transport service delivers IT equipment via air freight by using sustainable aviation fuel.¹⁹
- Lenovo Asset Recovery Services keep resources circulating by reusing parts when possible, refurbishing devices, and recycling outdated assets in an environmentally responsible way.¹⁹
- Lenovo CO₂ Offset Services make it easier to offset the estimated carbon emissions across your Lenovo solutions.¹⁹



Unleash AI for your organization

Lenovo and Intel can help you unlock data insights, develop AI solutions with confidence, and accelerate the delivery of practical applications. Together, Lenovo ThinkSystem servers, powered by 5th Gen Intel® Xeon® Scalable processors, provide the path to purpose-built and AI inference-enabled success.

Learn more

Sources

- 1 Scale, "2023 AI Readiness Report," April 2023
- 2 Foundry, "State of the CIO Survey 2024," February 2024
- 3 Lenovo, "SSG Global Study of CIOs: Wave II," April 2023
- 4 Accenture, "A new era of generative AI for everyone," 2023
- 5 Built In, "31 Examples of AI in Finance," October 2023
- 6 National Bureau of Economic Research, "The Potential Impact of Artificial Intelligence on Healthcare Spending," January 2023
- 7 McKinsey, "The economic potential of generative AI: The next productivity frontier," June 2023
- 8 Built In, "31 Examples of AI in Finance," October 2023
- 9 NVIDIA, "State of AI in Financial Services: 2023 Trends," February 2023
- 10 Gartner, "Gartner Identifies Top Trends Shaping the Future of Data Science and Machine Learning," August 2023
- 11 McKinsey, "The state of AI in 2023: Generative AI's breakout year," August 2023
- 12 ITIC, "ITIC 2022 Global Server Hardware, Server OS Reliability Report," February 2023
- 13 Intel, "Intel Performance Index," 2023-2024
- 14 Intel, "Granulate acquired by Intel," 2022
- 15 Lenovo, "The Resilient CIO: Lenovo Global Study of CIOs 2023," June 2023
- 16 Climate Neutral Group, "Carbon emissions of data usage increasing, but what is yours?" 2022
- 17 Lenovo, "Lenovo Commits to Net-Zero Emissions by 2050, Validated by Science Based Targets initiative," January 2023
- 18 Top500, "Green500," November 2023
- 19 CRN, "Sustainability in Tech Awards 2024," February 2024
- 20 Lenovo, "Lenovo Sustainability Report 2023," June 2023



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