Whitepaper

Unleash the full power of AI PCs for your business

Explore real-world AI PC use cases that unlock the limitless potential of AI-powered innovation

Smarter technology for all

Lenovo

AMD RYZEN AI PRO 300 Series

Copilot+ PC
Your AI assistant at work

In this whitepaper

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The future of computing is AI PCs

Companies across industries are rapidly embracing AI. They are using these emerging tools to help them complete rote tasks more efficiently, collaborate seamlessly with colleagues, and focus more on their most meaningful work.

While the cloud provides scalable power for complex AI models, there's a growing demand to process AI workloads closer to the edge – where data is generated and real-time decisions are made.

95%

of organizations say their organizations already use or test cloud-based AI for various use cases[1]

Enter AI PCs. These modern, high-performance devices equipped with dedicated neural processing units (NPUs) that accelerate AI inferencing more efficiently at the edge.

They deliver numerous benefits, such as ultra-low latency, stronger privacy and security, and reduced reliance on the cloud, which helps lower operational costs.

Now's the time to upgrade to AI PCs

With organizations aligning the next fleet refresh with their upgrade to Windows 11, it's the perfect time to adopt a new generation of PCs that include productivity-boosting AI capabilities and built-in security protections.

73%

of organizations are accelerating PC refresh cycles to integrate AI capabilities[1]

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Next-gen AI experiences at your fingertips

As businesses continue building their hybrid AI strategies, AI PCs are central to blending cloud and local capabilities to help businesses gain a competitive edge.

AI PCs, such as Lenovo ThinkPad T14s Gen 6 powered by AMD, are emerging as a cornerstone of AI strategies in forward-thinking organizations.

Your competitive edge starts with an AI PC

As organizations unlock the value of AI PCs, ITDMs face growing pressure to modernize while maintaining security, performance, and employee experience. AI PCs can help mitigate these challenges and offer a common set of benefits over traditional PCs.

Greater productivity and efficiency

Low latency keeps employees productive; running inferencing locally allows use of AI tools even without internet access.

Cost-savings and ROI

AI PCs can help save money over time by reducing reliance on cloud-based, per-seat AI services.
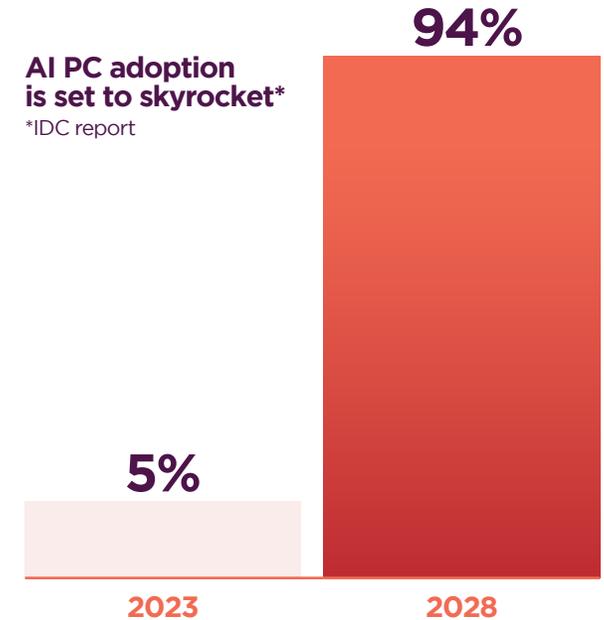
Protect your most valuable assets

Scale AI across your organization while protecting sensitive data and improving security posture.

Personalized work experiences

AI PCs personalize workflows by learning how people work and optimizing for efficiency.

94%

AI PC adoption is set to skyrocket*
*IDC report

5%

2023   2028

Read on in this whitepaper to discover how AI PCs can become a powerful pillar of your technology ecosystem across

- Finance >
- Financial services >
- Healthcare >
- Manufacturing >
- Retail >

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Enabling real-time analysis and automation

AI PCs have the potential to transform financial divisions within businesses through analysis and modelling, real-time forecasting, as well as advanced decision-making in portfolio management.

Current challenges of traditional PCs	How AI PCs can modernize the finance function
Lack of automation capabilities Routine tasks, such as tax and payroll, are done manually – which can lead to inefficiencies and a higher likelihood of human errors.	**Improved efficiencies for financial analysis and modeling** AI PCs can handle complex financial workflows with greater accuracy and speed. This is crucial for tasks like real-time financial forecasting and regulatory reporting.
Limited processing power for real-time analyses Traditional PCs are unable to process vast amounts of data for transactional, planning, and specialized financial activities.	**Automation of routine tasks** AI PCs can automate routine tasks like data entry, report generation, and transaction processing. This helps improve accuracy and free up time for finance teams to focus on other value-added activities.
Cyberthreats and rising regulatory needs Lack of embedded security frameworks in traditional PCs can lead to compromise of sensitive financial data.	**Enhanced protection against cyberthreats** AI PCs are a secure choice for organizations handling critical data. For example, ThinkPad T14s Gen 6 comes with AMD PRO Security that delivers robust protection for sensitive financial data.

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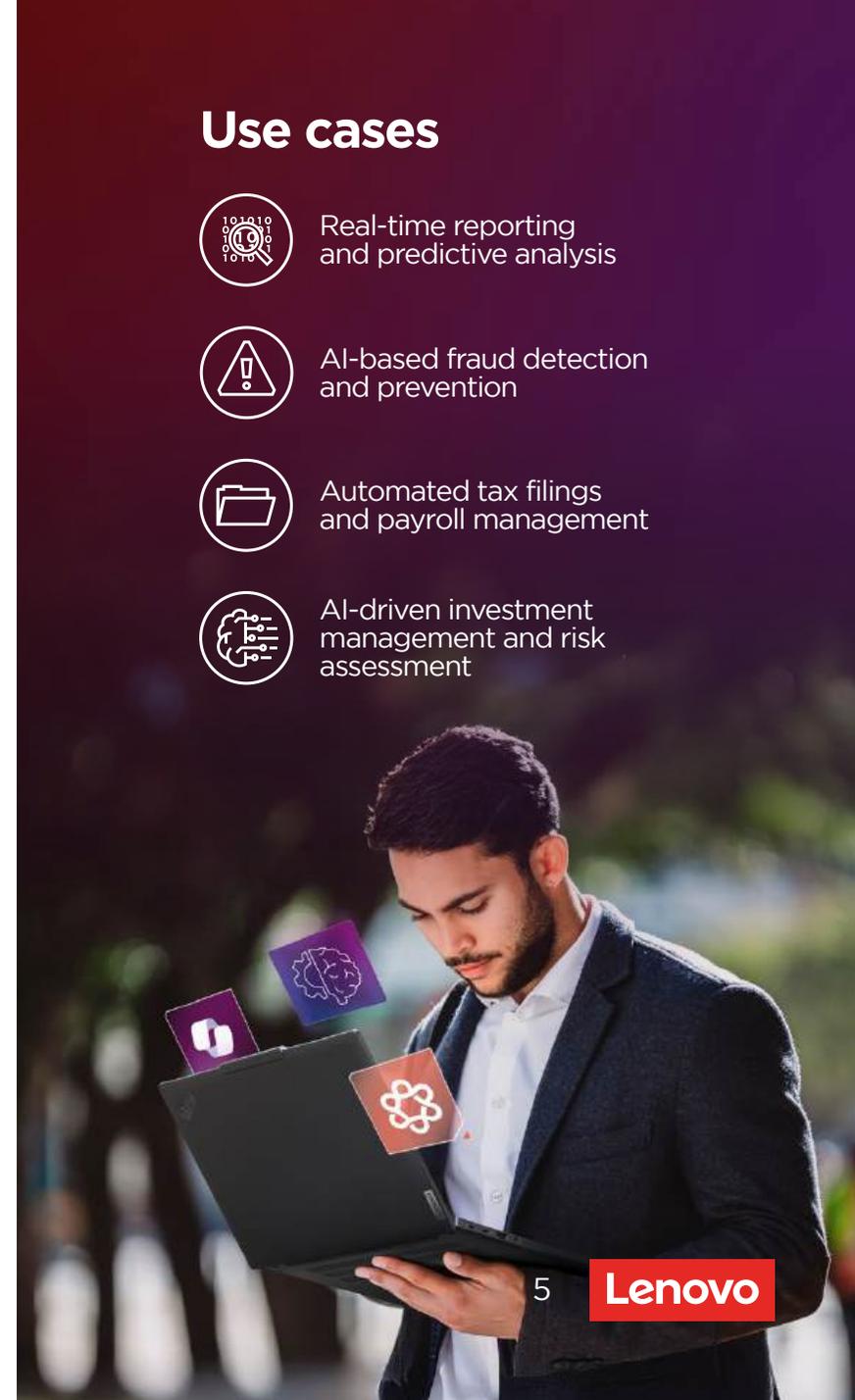
Use cases

Real-time reporting and predictive analysis

AI-based fraud detection and prevention

Automated tax filings and payroll management

AI-driven investment management and risk assessment

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Delivering digital-first, personalized services

AI PCs provide a unique value proposition for the financial services industry by enabling the processing of large financial data sets locally, addressing data fragmentation issues, and ensuring seamless operations.

Current challenges of traditional PCs	How AI PCs can transform the financial services sector
Fragmented data environment Inconsistent data environments in traditional PCs slow down critical decision-making for tasks like market analysis.	**Integrated data environment enables real-time analytics** Seamless data aggregation, enabling financial services firms to run real-time analytics for fraud detection, trading strategies, and liquidity analysis.
Incompatibility with next-gen AI applications Legacy PCs lack the computational capacity needed for modern AI workloads, limiting capabilities in areas like fraud detection and customer insights.	**Enhanced customer experience** AI PCS can help simplify the integration of advanced technologies. By streamlining workflows and delivering data-driven insights, they enable more responsive and tailored financial solutions for customers.
Reliance on third-party resources Heavy reliance on external vendors can result in cost overruns and vendor lock-ins, restricting scalability.	**Self-sufficiency in IT resources and compliance adherence** With AI PCs, financial services firms can process AI workloads locally, reducing reliance on public cloud services. This keeps sensitive data on-premises and addresses regulatory complexities.

Use cases

Advanced risk modeling and forecasting

Enhanced credit scoring and underwriting

Real-time trading strategies

Regulatory compliance and continuous monitoring

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Enhancing the care experience

AI PCs are poised to revolutionize healthcare – with their adaptive performance and intelligent sensing to handle complex tasks, enabling personalized care, improved productivity, and robust protection.

Current challenges of traditional PCs	How AI PCs can enhance healthcare delivery
Slow processing speed Inefficiency in handling Big Data and AI workloads can cause bottlenecks in tasks like imaging analysis and real-time data processing.	**Accelerate data processing and real-time insights** AI PCs can process vast volumes of data to enable real-time data analysis and advanced radiographic images. This helps improve patient access and enhance quality of care.
Data silos Traditional PCs often operate in isolated systems, which can hinder data sharing and care coordination.	**Seamless integration of data** AI PCs enable integration across electronic health records, telemedicine platforms, and diagnostic tools. This gives clinicians access to unified patient information – ultimately driving better patient outcomes and more personalized care.
Security risks Traditional PCs lack advanced encryption, real-time threat detection, and compliance tools to help safeguard sensitive data.	**Elevating security and compliance standards** AI PCs integrate advanced security features, such as real-time threat detection, AI-driven encryption, and HIPAA-compliant tools to safeguard sensitive patient data.

Use cases

- AI-enhanced imaging platforms for early diagnosis
- Integration of telemedicine for chronic care
- Dynamic and personalized preventive health tools
- AI-powered operational platforms for hospital efficiency

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Transforming the production lifecycle

With their advanced processing capabilities, AI PCs are a critical component of the emerging industrial AI ecosystem. Here's how they can empower manufacturers to improve productivity, reduce costs, and maintain a competitive edge.

Current challenges of traditional PCs	How AI PCs can transform manufacturing processes
Limited processing power Delays in processing IoT data can slow down decision-making, affecting production schedules and resource planning.	**Enhanced precision and quality** By running advanced analytics and machine vision systems locally, AI PCs detect defects in real time and provide immediate feedback to the controlled machine.
Lack of automation and reliability Traditional PCs lack the ability to automate routine tasks like inventory tracking and scheduling efficiently.	**Optimized resource allocation** AI PCs help reduce manual errors and improving operational efficiency by automating routine tasks. By processing real-time data from IoT-enabled systems, they can dynamically allocate resources and streamline workflows.
Inadequate security measures Regular device security solutions fall short against threats that target AI applications like prompt injection and local file vulnerability, leaving sensitive information at risk.	**Improve security posture with on-device processing** AI PCs process data locally, reducing cloud reliance and ensures compliance with strict manufacturing standards.

Use cases

Enhance quality and efficiency for smart edge computing

Assist collaborative robots in adapting to dynamic workflows

Streamline procurement and invoicing processes

Advance warehouse and inventory management

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Creating exceptional shopping experiences

AI PCs holds the potential to revolutionize the retail landscape – from improving inventory management and customer service to enhancing pricing strategies. They can be integrated with other emerging technologies, such as IoT cameras and smart shelves.

Current challenges of traditional PCs	How AI PCs can optimize retail operations
Slow processing power Delays in decision making can lead to missed sales opportunities and customer dissatisfaction due to stockouts.	**Enhanced cost efficiencies and customer experiences** Task automation helps to reduce manual effort and lower operational costs. AI PCs can also analyze shopping preferences in real time to boost customer satisfaction and loyalty.
Lack of real-time analytics This can impede retailers' ability to quickly respond to market trends and offer high-quality customer service.	**Improved sales forecasting** By analyzing historical sales data and market trends in real time, retailers can then generate precise forecasts, manage inventory efficiently, reduce stockouts, and streamline supply chain operations.
Increases security vulnerabilities Traditional device security solutions fall short against threats that target AI applications and are highly susceptible to modern cyber threats.	**Improve security posture with on-device processing** AI PCs performs computations on-device, reducing reliance on cloud infrastructure and improving security.

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Use cases

- Automated checkout systems
- Personalized shopping recommendations
- Content creation and marketing analytics
- Dynamic pricing optimization

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Unlock next-gen AI experiences for your best workers

Lenovo puts you in command of AI processing power with ThinkPad T14s Gen 6. Purpose-built for your trusted x86 architecture, this powerful Copilot+ PC offers a 50 TOPS performance to handle intensive AI tasks without compromise.

41%
PCs powered by AMD are 41% faster to deploy, using modern deployment solutions like Windows Autopilot[2]

Personalized

Deep integration of AMD Ryzen™ AI PRO processor features and Windows 11 capabilities means optimized speed and unique AI experiences that streamline workflows, optimize performance, and boost user experiences.

Productive

Transform workflows with AI-driven content creation, predictive experiences, and intelligent decisioning. Lenovo's built-in AI tools enable smarter collaboration experiences with smart noise canceling, and video enhancements.

Protected

Bolster your defense with state-of-the-art security from AMD Ryzen™ AI PRO processors, integrated with Microsoft Pluton security processor and strengthened by AI-powered ThinkShield.

With Lenovo and AMD, AI is more than just an advanced software

- **Supercharged AMD processors** with a dedicated AI engine for power efficiency
- **AI-driven** apps to take productivity and security to the next level
- **Reliable Lenovo hardware and services** to put it all together

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Your AI assistant at work

ThinkPad T14s Gen 6 advanced by AMD Ryzen™ AI 7 PRO 360 processors

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Discover how easy it is to reap the benefits of next-gen AI PCs like ThinkPad T14s Gen 6 advanced by AMD for your business.

With our end-to-end suite of solutions and services, Lenovo experts can help you to seamless scale cutting-edge AI capabilities across your fleet and optimize AI PC investments.

Learn more at **techtoday.lenovo.com/ai-pc/amd**

[1] Accelerate your organization's AI strategy by deploying high-performance AI PCs, IDC

[2] Principled Technologies® and AMD, "Deploy operating systems and drivers to PCs with a single process regardless of processor," November 2023

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