

E-BOOK



AI PCs Have Arrived — Exploring the Best of the Best

The AI PC revolution is here — But only the right platform will get your business ready for the future

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The Pivot to AI PCs – Time Is of the Essence

As AI adoption surges, IT leaders are aware that AI PCs aren't just another hardware upgrade. With Windows 10 reaching End-of-Support (EOS) in October 2025, enterprises that fail to modernize their IT infrastructure risk falling behind.

Ninety-five percent of companies are already using or testing AI, and 97% of IT leaders plan to scale AI capabilities across their organizations. Windows 11 equipped PCs — enhanced with Microsoft Copilot+ AI PC capabilities — are further accelerating infrastructure refresh plans. Delaying AI PC adoption doesn't just mean missing out on near-term productivity gains. Any hesitancy can lead to higher IT costs, increased cyber risk and a workforce burdened by outdated tools.

However, not all AI PCs are created equal. Choosing the right platform is critical to unlocking the higher levels of performance businesses need to stay competitive. In a crowded field, AMD provides the most compelling AI PC solution for the modern day enterprise.

What is an AI PC?

An AI PC is a next-generation computing device equipped with a dedicated neural processing unit (NPU) designed to accelerate on-device AI workloads. Unlike traditional systems, advanced AI PCs intelligently distribute AI-driven tasks across the CPU, GPU and NPU for faster execution and lower latency. By processing AI workloads locally rather than in the cloud, AI PCs enhance data privacy, improve responsiveness and reduce operational costs.

AMD Ryzen™ AI PCs Redefine Workplace Efficiency, Security & Collaboration

AI PCs enhanced with AMD Ryzen™ AI transform business performance. For example, AMD on-device AI enables 261% faster AI video editing and image generation.² And with 82% faster content creation, projects that take an hour on the competition can be completed on AMD Ryzen™ AI PCs in as little as 20 minutes.³ By intelligently allocating processing power across CPU, GPU and NPU compute engines, AMD PRO processors optimize workloads for high-speed execution and improved energy efficiency.

AMD AI-powered PCs provide strong security.

AMD solutions deter intruders with the latest TLS 1.3 encryption — versus the outdated TLS 1.2⁵ — providing more robust encryption and lower latency. And unlike traditional systems that rely heavily on cloud computing, AI PCs powered by Ryzen™ AI utilize on-device AI hardware which provides significant security advantages.

For example, in financial services, banks can automate fraud detection in real-time, analyzing transaction patterns directly on-device. This avoids the risk of sensitive customer data being exposed on external cloud networks.

"AMD has found a good balance – the right number of cores, at an amazing speed. My advice to anyone contemplating the switch to AMD CPUs is buy one yesterday. It is a no-brainer. AMD has no competition now."

—**Juan Garces**

IT Support Engineer, Sonos⁴

AI PCs equipped with AMD Ryzen™ AI redefine collaboration.

AI-powered capabilities enhance virtual meetings, content generation and communication tools through Windows 11 Copilot+ PC integration. Features like real-time document summarization, AI-assisted search and intelligent transcription make it easier to work across hybrid and remote work environments.

"We trust AMD Ryzen™ CPUs because they offer robust security features like AMD Secure Processor and AMD Memory Guard, which help protect our clients' sensitive data. The reliability of AMD Ryzen™ CPUs ensures that our operations run smoothly and efficiently, providing a stable and secure environment for our banking services. This combination of security and reliability allow us to maintain the highest standards of trust and performance for our customers."

—Joost Maas

ING, Global Client Infrastructure Manager

The Industry's Most Powerful AI Capabilities

Unlike competitors that focus on isolated AI capabilities, AMD delivers a superior end-to-end AI strategy — from cloud infrastructure to edge processing and endpoint devices. This unified approach ensures that businesses deploying AMD AI PC solutions benefit from an AI ecosystem that is optimized for performance, security and efficiency at every level.

Additionally, AMD Ryzen™ AI PCs solutions incorporate **AMD PRO Technologies** to provide a complete set of security features, robust manageability tools and enterprise-grade stability and reliability. PRO Technologies include hardware-based encryption for real-time security enforcement and **PRO Manageability** to empower IT managers with superior control, flexibility and simplicity.⁶

Advantages of AI PCs Powered by AMD Ryzen™ AI

AI PCs powered with AMD Ryzen™ AI are leading the global AI PC transition, and this includes a variety of business benefits. The chart below summarizes key advantages, divided into three main categories: business advancement, higher ROI and accelerated employee productivity. Afterwards, we'll drill down into each category in more detail.

AI PC POWERED BY RYZEN™ AI ADVANTAGE Advance Your Business

Key Benefits:

- Accelerated deployment & remote management
- Adaptive performance & reduced downtime
- Enterprise-grade manageability

AI PC POWERED BY RYZEN™ AI ADVANTAGE Achieve High ROI

Key Benefits:

- Lower TCO — Up to \$50M in value over competitors.⁷
- Scalable, role-based flexibility
- Longer battery life & reliability to improve ROI

AI PC POWERED BY RYZEN™ AI ADVANTAGE Accelerate Employee Productivity

Key Benefits:

- Boost productivity with AI automation tools
- AI-enhanced collaboration
- Higher performance, stability and longer battery life

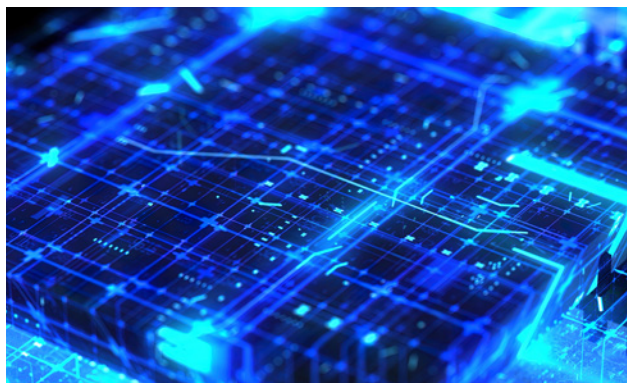
Advance Your Business with AMD Ryzen™ AI PCs

Every CIO knows the demands on modern business infrastructure extend beyond workplace efficiency and security concerns. AMD responded to these demands by integrating open-source, intelligent remote deployment capabilities into its AI PC solutions, satisfying the need for faster endpoint device management.

As part of AMD PRO Technologies, PRO Manageability lets you remotely deploy, monitor and update your entire PC fleets from a centralized interface. With automated provisioning and remote fleet management, PRO Manageability offers faster setup, easier maintenance and automatic security updates. Through PRO Manageability, AMD AI PC solutions are designed to reduce IT complexity with up to 41% faster deployment.⁸

In healthcare, this enables clinicians and administrators to focus on patient care instead of dealing with IT headaches. In retail, where thousands of point-of-sale (POS) endpoints must be deployed across multiple locations, IT teams can remotely configure and manage devices which means less downtime and a more stable IT environment.

Built for Windows 11, AMD AI processors enable an easy transition from Windows 10, further minimizing downtime and compatibility issues. And by running both current and next-generation AI-enhanced applications, AI PCs powered by Ryzen™ AI enable you to stay ahead of the AI capabilities curve.



Manageability Matters More Than Ever

IT environments are more complex, distributed and security-sensitive than ever. AMD PRO Manageability helps you outmaneuver the competition, in addition to faster deployment.

1) Unified Remote Management Reduces Complexity

AMD PRO Manageability supports full remote management — including wireless and KVM — across all configurations, avoiding fragmentation and simplifying IT operations. In contrast, the competition splits features between two solutions, which can increase complexity and limit functionality.⁹

2) More Console Options for Greater Flexibility

Unlike the competition, which supports only one management console, AMD offers multiple options — including DASH CLI, AMC, AMPS and ADMP — allowing IT teams to choose the best fit for their environment.¹⁰

3) Intuitive UI Enhances the User Experience

AMD PRO Manageability features a streamlined, consistent interface based on Microsoft design principles. It simplifies tasks with efficient workflows, offers robust logging and reporting, and ensures a smooth experience across all tools.

4) Broad Compatibility with 3rd-Party Network Devices

AMD PRO Manageability works with the industry's widest range of 3rd-party networking hardware — including wireless from MediaTek and Qualcomm, and wired from Broadcom, Marvell and Realtek — unlike the competition, which supports only their own components.¹¹

Achieve High ROI with AMD AI PC Solutions

For any AI PC investment, executives demand tangible business value, such as lower costs, higher efficiency and long-term reliability. AMD answers these requirements with AI PC solutions engineered to reduce IT overhead with features like extended hardware lifespans and optimized power consumption. The result is a significant lower total cost of ownership (TCO).

"We choose AMD Ryzen™ CPUs because they offer the best Total Cost of Ownership, delivering exceptional performance and efficiency. The advanced features of AMD Ryzen™ CPUs enable us to enhance our data analytics and decision-making processes, driving innovation and operational excellence."

—Robert Kochheim

Shell, Global Portfolio Manager
Digital Workplace

This benefits corporate finance, where IT leaders managing large-scale device refreshes must balance performance needs with budget constraints. With extended refresh cycles and reduced downtime, PCs powered by AMD Ryzen™ AI processors can drive down costs and boost employee productivity. Over time, these savings translate into millions of dollars in value. For example, in organizations with 25k employees, savings can total up to \$50 million in value when choosing AMD AI PC platforms over competing commercial systems.¹² These savings are seen in initial per-employee system acquisition cost and via time-value savings for multitasking performance in typical office workloads.

But not all employees need the same compute power. AMD's extensive AI platform addresses varying workforce requirements by helping businesses match machine capability to employee needs. AMD offers a leadership mix of nine AI PC models supporting the Microsoft Copilot+ PC program. Whether businesses need laptops, desktops or mobile workstations, AMD offers a highly diverse selection of AI PC models.

Additionally, the extended hardware longevity AMD supports means fewer refresh cycles, lowering

infrastructure replacement costs. With 18 months of planned software stability and 24 months of platform availability, AMD provides the consistency and reliability modern enterprises need to scale AI adoption.

Accelerate Employee Productivity with AMD AI PC Solutions

For businesses to remain competitive today, employees require faster processing speeds. Teams also want fewer disruptions and frictionless collaboration. As a response, AMD equips AI PCs with Ryzen™ AI PRO processors, providing the most powerful AI PC capabilities in the industry.¹³

In customer service, AMD AI-enhanced PCs can transcribe calls in real time, generate intelligent responses and summarize key insights. This allows agents to resolve inquiries faster and focus on high-value interactions. AI-powered applications enable real-time document summarization, semantic search and AI-assisted content creation. With AI-enhanced collaboration, cutting-edge AI workplace tools get integrated where your teams need them most.

For hybrid and remote teams, AI PCs powered by Ryzen™ AI processors deliver longer battery life, ensuring extended productivity anywhere. For example, AMD Ryzen™ AI 9 HX PRO 375 CPU delivers up to 23.6 hours of video playback battery life, which is 80% better than the competition.¹⁴ Confidence comes from knowing the most advanced AI tools are at your teams' disposal — and their work won't be interrupted by system crashes or slowdowns.

Shifting focus to practical outcomes in real-world scenarios, a case study involving AMD and ACCIONA provides valuable insight into the experience of utilizing AMD CPUs across desktop, laptop, workstation, and server product lines.

"We saw 10 to 20% better performance with HP laptops powered by AMD Ryzen™ 7 7840HS CPUs. But the best thing is that they could run all those tests and still have the batteries only drop from 100 to 70%. The other laptops were down to 40%."

—Marc Mendis

ANZ Cloud Services Architect, ACCIONA

CASE STUDY

ACCIONA Meets Sustainable Infrastructure Goals Faster with AMD

ACCIONA improves the sustainability of global infrastructure like roads, bridges and tunnels, while demanding that its own internal IT infrastructure meet similar goals. By leveraging AMD CPUs, ACCIONA increased laptop, server, cloud and workstation performance with reduced energy use for its sustainable infrastructure projects along with major workflow benefits.

INDUSTRY

Sustainable infrastructure design, construction and maintenance

CHALLENGES

Digitally transform infrastructure business workflow while satisfying company sustainability goals

SOLUTION

Deploy HP laptops with AMD Ryzen™ PRO CPUs, as well as AMD EPYC™ AWS cloud instances and AMD Ryzen™ Threadripper workstation processors.

RESULTS

10-20% faster laptops with 25% better power consumption

4x better performance with power design simulation

Half the time to stitch rail track survey images

AMD TECHNOLOGY AT A GLANCE

AMD Ryzen™ 7 7840HS CPUs

AMD Ryzen™ 9 CPUs

AMD Ryzen™ Threadripper™ CPUs

3rd Gen AMD EPYC™ CPUs

4th Gen AMD EPYC™ CPUs

"Our entire business in the Australian region will run on AMD."

—**Marc Roles**

ANZ, ICT Operations Manager, ACCIONA

The AMD Advantage: The AI PC Platform Built for the Future

AMD's end-to-end AI leadership is reshaping enterprise computing from cloud to edge to endpoint. AI PCs powered by AMD Ryzen™ AI provide on-device AI processing to safeguard sensitive data, TLS 1.3 encryption for superior security and AMD PRO

Manageability for secure remote fleet control and streamlined IT management.

Optimized for Microsoft 365 and Windows 11 Copilot+ PC features, AMD AI PC solutions enhance productivity, automation and collaboration while reducing IT complexity and operational costs. With the world's most powerful AI acceleration in enterprise PCs, AMD delivers better performance, stronger security and future-ready scalability.

The AI PC revolution is here. Choose the platform built to lead it.

Find out what AMD PRO Processors can do for your enterprise today.

References

1. IDC White Paper, sponsored by AMD, Accelerate Your Organization's AI Strategy by Deploying High-Performance AI PCs, document #US53192925, February 2025.
2. Testing as of Spring 2024 by AMD Performance Labs using the following benchmarks: DaVinci Resolve AI test bench, Procyon AI WinML, and Stable Diffusion Olive-0.4.4 Configuration for AMD Ryzen™ AI 9 365 processor (45W): AMD reference board, Radeon™ 880M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Intel Core Ultra 9 185H processor (45W): MSI Prestige 16 AI Evo, Intel Arc Graphics, 16GB RAM, 1TB SSD, VBS=ON, Windows 11. Laptop manufacturers may vary configurations yielding different results. STX-30.
3. Testing as of May 2024 by AMD Performance Labs using the following benchmarks: 3DMark Night Raid, Cinebench R24, Blender, PCMark 10. Configuration for AMD Ryzen™ AI 9 HX 370 processor (45W): AMD reference board, Radeon™ 890M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Intel Core Ultra 9 185H processor (45W): MSI Prestige 16 AI Evo, Intel Arc Graphics, 32GB RAM, 2TB SSD, VBS=ON, Windows 11. PCMark 10 is a registered trademark of UL Solution. Laptop manufacturers may vary configurations yielding different results. STX-23.
4. Certain AMD technologies may require third-party enablement or activation. Supported features may vary by operating system. Please confirm with the system manufacturer for specific features. No technology or product can be completely secure. GD-18b. © 2025 Advanced Micro Devices, Inc. All rights reserved.
5. AMD PRO Manageability supports the latest security standard which offers better performance and security (compared to solutions based on earlier standards). Compared to Intel vPro, AMD PRO Manageability implements a newer version of the TLS (Transport Layer Security) protocol which provides higher levels of security and lower latency (TLS 1.3 vs TLS 1.2). KRKP-8
6. Statement compares Intel vPro and AMD PRO Manageability software suites as of February 2025, and is based on the AMD Pro Manageability software suite providing: (a) standard support for wireless and KVM manageability in every configuration; (b) a range of supported solutions for IT flexibility (including DASH CLI command line, lightweight UI AMC, Microsoft Configuration Manager Plugin AMPS, and the web browser-based ADMP) as opposed to one (1); and (c) a consistent user experience that adhere to well-known design principles. KRKP-19
7. STXP-35 - Testing as of Dec 2024 by Signal65 (3rd party), on a Lenovo ThinkPad T14s Gen 6 with an AMD Ryzen™ AI 7 PRO 360 processor @22W, Radeon™ 880M graphics, 32GB RAM, 512GB SSD, VBS=ON, Windows 11 Pro vs. a Dell Latitude 7450 with Intel Core Ultra 7 165U processor @15W (vPro enabled), Intel Iris Xe Graphics, VBS=ON, 32GB RAM, 512GB NVMe SSD, Microsoft Windows 11 Enterprise and an IT image(s) on both system. Calculation of total cost savings include comparing the following for an example organization with 25k employees: initial system acquisition cost (per employee) and time value savings per employee (using multitasking performance on typical office workloads). STXP-35.
8. Systems with an AMD Ryzen™ 7 PRO 7840U processor can deploy Windows Enterprise Autopilot up to 41% faster than systems with an Intel Core™ i7-1365U vPro processor. Testing as of Nov 2023 by 3rd party performance labs on a Lenovo® ThinkPad® T14 Gen 4 laptop with AMD Ryzen™ 7 PRO 7840U processor, AMD Radeon™ 780M graphics, 16GB RAM, 256GB SSD, Windows 11 Enterprise x64 v. 22621 and HP EliteBook 845 14" G10 Notebook with AMD Ryzen 7 PRO 7840U processor, AMD Radeon™ 780M graphics, 64GB RAM, 2TB SSD, Windows 11 Enterprise x64 v.22621 vs. Lenovo ThinkPad T14 Gen 4 laptop with Intel Core™ i7-1365U vPro processor, Intel UHD Graphics, 16GB RAM, 1TB SSD, Windows 11 Enterprise x64 v. 22621 and HP EliteBook 840 14" G10 Notebook with Intel Core i7-1365U vPro processor Intel UHD Graphics, 16GB RAM, 512GB SSD, Windows 11 Enterprise x64 v. 22621. When calculating the following: Time to deploy operating systems with Windows 11 Enterprise x64 v. 22621 autopilot. PHXP-87.
9. KRKP-19. Statement compares Intel vPro and AMD PRO Manageability software suites as of February 2025, and is based on the AMD Pro Manageability software suite providing: (a) standard support for wireless and KVM manageability in every configuration; (b) a range of supported solutions for IT flexibility (including DASH CLI command line, lightweight UI AMC, Microsoft Configuration Manager Plugin AMPS, and the web browser-based ADMP) as opposed to one (1); and (c) a consistent user experience that adhere to well-known design principles.
10. KRKP-19. Same as above.
11. As of February 2025, AMD PRO Manageability is supported on a wide range of networking hardware from 3rd parties consisting of wireless devices from MediaTek and Qualcomm as well as wired devices from Broadcom, Marvell and Realtek, unlike Intel vPro which only supports their own network components. KRKP-20
12. STXP-35 - Testing as of Dec 2024 by Signal65 (3rd party), on a Lenovo ThinkPad T14s Gen 6 with an AMD Ryzen™ AI 7 PRO 360 processor @22W, Radeon™ 880M graphics, 32GB RAM, 512GB SSD, VBS=ON, Windows 11 Pro vs. a Dell Latitude 7450 with Intel Core Ultra 7 165U processor @15W (vPro enabled), Intel Iris Xe Graphics, VBS=ON, 32GB RAM, 512GB NVMe SSD, Microsoft Windows 11 Enterprise and an IT image(s) on both system. Calculation of total cost savings include comparing the following for an example organization with 25k employees: initial system acquisition cost (per employee) and time value savings per employee (using multitasking performance on typical office workloads). STXP-35.
13. STXP-06a (see previous footnotes with this code)
14. STXP-31. Based on internal testing by AMD as of 9/23/24. Battery life results evaluated by playing a 1080P video on loop @150 nits brightness from 100 >0% battery running in Best Power Efficiency Mode. All systems use native video player. System config: Lenovo ThinkPad T14s Gen 6 with an AMD Ryzen™ AI 7 PRO 360 processor @22W, Radeon™ 880M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11 Pro. System Config: Dell Latitude 7450 with Intel Core Ultra 7 165U processor @15W (vPro enabled), Intel Iris Xe Graphics, VBS=ON, 32GB RAM, 512GB NVMe SSD, Windows 11 Pro. Video playback battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. Results may vary. STXP-31