AMD
RYZEN AI
PRO

FROM BUSINESS
LAPTOPS
TO MOBILE
WORKSTATIONS

WHY AI PCS
ARE THE
FUTURE
OF WORK

TABLE OF CONTENTS

AI IS CHANGING THE WAY PEOPLE WORK

AI is redefining how work gets done by empowering businesses to streamline operations, enhance productivity, and unlock new efficiencies. **Nearly 95%** of companies are already using or testing cloud-based AI.[1] However, as enterprises are looking to increase data privacy, enhance security, and reduce costs, there is an increasing desire to shift workloads from the cloud to the edge. This shift is driving businesses to rethink their technology infrastructure.

KEY FACTORS INFLUENCING DEVICE UPGRADES INCLUDE:

WINDOWS 10 END OF SUPPORT (EOS) The end of support for Windows 10 in 2025 means businesses must upgrade to newer, more secure devices to ensure continued protection for their data.	**AI-ENABLED DEVICES** The growing availability of AI-enabled devices is accelerating refresh cycles, as businesses equip their teams with smarter, more efficient technology.

With 58% of enterprise PCs still running on Windows 10,[1] businesses will soon face increased risks from their outdated software and unsupported systems. Windows 11 relies on data protection features built directly into the processor to address such security concerns. These features, combined with OEM system-level defenses, memory protection, and supply chain security, help protect sensitive data as organizations move to more advanced devices—ensuring they can also support the growing demands of AI workloads.

AI functionality is becoming available through Windows itself and in applications like Adobe Creative Cloud, DaVinci Resolve, and others, which place greater demands on device performance, responsiveness, and security. Older devices will struggle to keep up with these requirements.

EQUIP YOUR WORKFORCE WITH THE RIGHT TOOLS

Every employee has unique needs, whether it's for general business tasks or more specialized work. From versatile business laptops to high-performance mobile workstations, there's a solution tailored to fit every role and workload.

Let's explore these options to see how the right devices can help maximize productivity and meet the evolving demands of the modern workplace.

WINDOWS 10 IS APPROACHING END OF SUPPORT ON OCTOBER 14, 2025.[2]

AI PCS: POWERING THE FUTURE OF WORK

AI PCs are reshaping business technology by processing AI workloads locally. This reduces reliance on the cloud, while improving efficiency, security, and cost predictability. **73%** of ITDMs report that AI PCs are accelerating their PC device refresh plans,[1] marking a shift toward a workplace optimized for AI-powered productivity. What's fueling the sudden focus on emerging tech? It comes down to four factors. We'll unpack each below.

HOW AI PCS ARE RESHAPING THE WORKPLACE

Enhanced performance and productivity

AI PCs optimize critical AI-driven applications such as document summarization, real-time captions, and cybersecurity tools by processing workloads locally. This results in faster, smoother user experiences, improved performance and increased productivity.

More than

70%

of ITDMs agree that AI PCs will directly contribute to enhanced productivity across various business functions.[1]

74%

of ITDMs consider the increased capacity of AI PCs to prevent security risks a compelling feature.[1]

Improved privacy and security

Sensitive data stays on the device rather than being transmitted over the cloud, mitigating security risks. This is valuable for industries with stringent compliance requirements, where robust data protection and regulatory standards are critical.

Optimized spend

By reducing dependence on expensive cloud-based AI processing, AI PCs help businesses control their IT spending and achieve more predictable budgets, making them a strategic investment for organizations looking to reduce operational costs.

Over

70%

of ITDMs believe that AI PCs will improve the total cost of ownership (TCO).[1]

Over

80%

of ITDMs agree that AI PCs will eliminate repetitive tasks, boosting efficiency across the organization.[1]

Reallocate time toward strategic work

AI PCs automate routine tasks such as email management, scheduling, and content generation, changing how work gets done and freeing up employees to focus on more impactful and high value work.

BUSINESS LAPTOPS

VERSATILE AND OPTIMIZED FOR PRODUCTIVITY

Business laptops are built to support a wide range of roles across the organization. With built-in AI capabilities that process tasks locally, they help teams boost productivity, enhance security, and reduce reliance on the cloud.

IT teams can tap into emerging AI-driven tools to automate troubleshooting, detect threats faster, enhance security, and simplify maintenance. This allows them to spend more time optimizing infrastructure and supporting broader technology strategy.

Marketing professionals can take advantage of AI-driven content generation, audience segmentation, and predictive analytics, enabling marketing teams to create targeted, data-driven campaigns that boost engagement and optimize marketing efforts.

Business and knowledge workers rely on AI-powered tools including Copilot and Microsoft 365, which require high-performance PCs to enhance productivity, improve security, and reduce cloud dependency for day-to-day tasks.

In operations and manufacturing, business laptops help predict demand fluctuations, optimize inventory management, and automate processes, driving efficiency and facilitating more informed decision-making within these critical businesses.

By enabling teams across different functions to work more efficiently, business laptops are proving to be a game-changer for businesses looking to scale AI adoption. These devices help organizations boost productivity and improve decision-making, making them a crucial investment for staying competitive in today's business landscape.

MOBILE WORKSTATIONS

PROFESSIONAL, HIGH-PERFORMANCE GRAPHICS AND COMPUTE

As workloads become more specialized, the need for performance, speed, and responsiveness grows. Mobile workstations are built to meet these demands—delivering the compute power, graphics performance and efficiency required in fields like architecture, product design, engineering, content creation and AI. Unlike standard business PCs, workstations typically offer better CPU and GPU performance and come with professional-grade drivers and ISV certifications.

Whether it's rendering, 3D CAD modeling, video editing, real-time visualization or local AI development, mobile workstations offer the optimized and certified application performance needed to accelerate complex, resource-intensive projects.

IDC predicts

ONE IN 10

commercial PCs shipped into the enterprise by 2030 will be a workstation as more organizations recognize their value for mission-critical workloads.[3]

Creative and engineering professionals handle complex workloads including video editing, 3D rendering, and CAD design. Mobile workstations eliminate slow render times and system crashes, allowing professionals to work more efficiently and meet tight deadlines with smooth, uninterrupted workflows.

Developers and AI engineers rely on local AI compute power to train and optimize AI models. With up to 50+ TOPS[4] of AI compute capacity, mobile workstations enable faster development and iteration, helping AI projects scale more effectively without relying on cloud resources.

Mobile workstations deliver best-in-class performance, security, and longevity, making them essential for professionals managing complex, AI-driven workloads. With fast processing, enhanced security, and long-term value, these systems are built to meet the demands of today's technology-driven environment.

AMD RYZEN™ AI PRO PROCESSORS

BUILT FOR AI, DESIGNED FOR PROFESSIONALS

AMD Ryzen™ AI PRO[5] processors are engineered to meet the evolving demands of modern work, delivering the performance and efficiency needed for everything from general office tasks to AI-driven workloads and specialized professional applications. Designed for professionals looking to elevate AI performance, these processors provide an advantage through AI-enabled hardware, helping businesses stay ahead in an increasingly intelligent workplace.

AMD RYZEN™ AI PRO PROCESSORS AT A GLANCE

World's first integrated
AI engine in an x86 processor[6]

Optimized to run AI workloads for
incredible system efficiency

Up to 4 concurrent AI streams
for real-time multitasking

Processes up to 50+ Trillion
AI Operations Per Second (TOPS)[4]

AMD Ryzen™ AI PRO processors powers AI PCs, including business laptops for everyday productivity and mobile workstations for demanding, high-performance tasks, covering a wide range of use cases.

AMD RYZEN™ AI PRO PROCESSORS FOR BUSINESS LAPTOPS

For professionals who rely on AI-driven productivity tools, AMD Ryzen™ AI PRO processors deliver advanced performance and efficiency, making business laptops more powerful than ever.

These processors are built to handle everyday office tasks and AI-driven applications, enabling seamless workflows, enhanced performance, and impressive power efficiency.

Business laptops powered by AMD Ryzen™ AI PRO processors keep teams productive while delivering the reliability and speed modern work environments demand. With next-generation AI capabilities, these devices empower businesses to thrive in a rapidly evolving digital world.

KEY BENEFITS INCLUDE:

1

THE WORLD'S MOST POWERFUL NPU[7]

Designed to accelerate AI tasks, ensuring faster processing and real-time performance for demanding workloads.

2

INCREASED PRODUCTIVITY

Achieve new levels of productivity with up to 8 high-performance cores, built on the leadership 4nm process "Zen 4" architecture and Wi-Fi 7 support for lightning-fast internet speeds.

3

LONG-LASTING BATTERY LIFE

Experience adaptive power management with up to 24 hours of battery life, offering the freedom to work anywhere with cool, near-silent operation.[8]

4

ENTERPRISE-GRADE SECURITY

Benefit from enterprise-grade multi-layered security, simplified deployment, manageability, and quality assurance features that meet the demands of business and IT decision-makers.

UP TO 53%
faster in Cinebench R24 n-thread performance, a key indicator of multitasking capability.[9]*

*Versus a Dell Latitude 7450 with an Intel Core Ultra 7 165H processor (vPro enabled)

UP TO 60%
faster in overall system performance with PassMark 11.[10]*

*Versus a Dell Latitude 7450 with an Intel Core Ultra 7 165H processor (vPro enabled)

AMD RYZEN™ AI PRO PROCESSORS FOR MOBILE WORKSTATIONS

For technical and creative experts handling complex workloads, AMD Ryzen™ AI PRO processors power mobile workstations with the advanced computing performance needed for demanding applications like 3D rendering, CAD, and AI model development.

These high-performance systems deliver unmatched speed, seamless multitasking, and AI acceleration, thanks to cutting-edge CPUs, high-bandwidth memory, and integrated graphics. Whether working with large AI models locally or running GPU-accelerated applications, AMD Ryzen™ AI PRO processors deliver a next-level experience, redefining the capabilities of mobile workstations.

KEY BENEFITS INCLUDE:

1 CUTTING-EDGE CPU AND MEMORY

Tackle complex 3D projects with multiple applications running in parallel or explore new avenues using large AI models locally.

2 TRANSFORMATIONAL AI EXPERIENCES

Handle more demanding AI-enhanced workloads and surpass the capabilities of discrete GPUs, all from anywhere.

3 INTEGRATED CERTIFIED GRAPHICS

Work with graphics-intensive applications, run GPU-accelerated AI, or rely on high image quality for precise, professional results.

UP TO 106%

faster for design and manufacturing tasks such as Keyshot rendering.[11]

UP TO 78%

faster for architecture, engineering, and construction tasks such as Corona rendering.[12]

UP TO 102%

faster for media and entertainment tasks such as Chaos V-Ray rendering.[13]

UP TO 41%

faster for software and science tasks such as Chromium processing.[14]

AMD offers the right device for every employee, to give teams the performance they need whether they're working on office tasks, AI workloads, or specialized professional applications. But choosing the right device for each user requires careful consideration.

CHOOSE THE RIGHT DEVICE FOR THE RIGHT USER

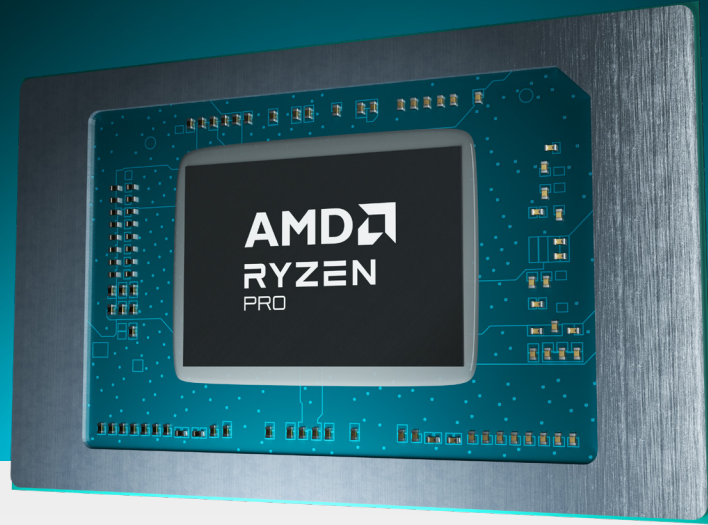Empower your workforce with high-performance tools designed to drive business growth.

KEY CONSIDERATIONS INCLUDE:

- ✓ What are the key tasks and workloads these devices need to support?

- ✓ Do different teams require different device specifications?

- ✓ Will these devices help improve efficiency and productivity?

- ✓ Will these devices be able to support new business applications over time?

- ✓ Are we investing in devices that will scale with the organization's growth?

- ✓ Will these devices support hybrid or remote work effectively?

Connect with your OEM, ISV, and silicon vendors to explore the available solutions tailored to your business needs.
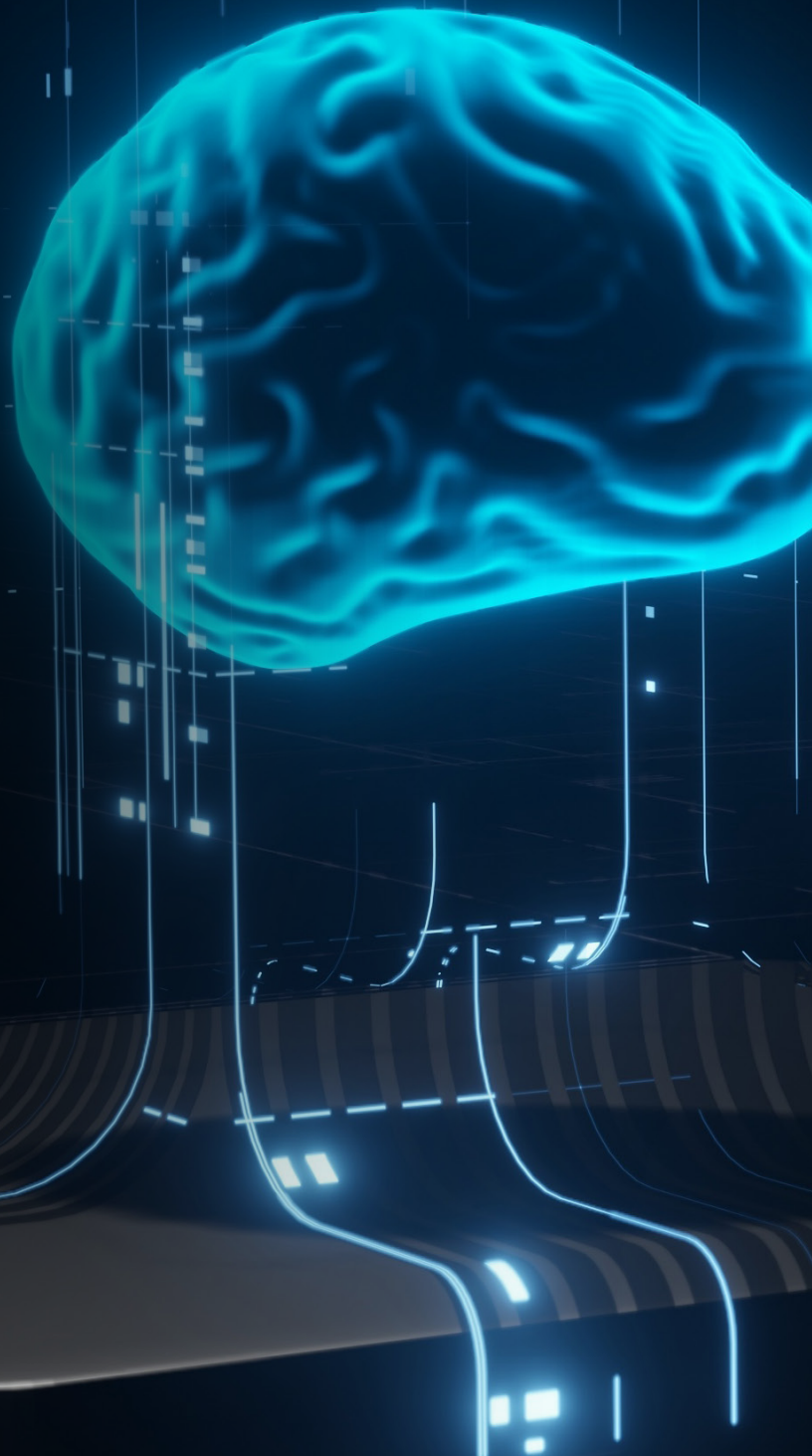
READY TO TAKE A CLOSER LOOK?

Power your workforce with AMD Ryzen™ AI PRO processors for laptops

Equip your team with cutting-edge business laptops, delivering performance, efficiency, and security for any task.

EXPLORE NOW

Unleash your team's potential with AMD Ryzen™ AI PRO mobile workstations

Equip your team with high-performance mobile workstations, designed for demanding tasks and enhanced productivity.

DISCOVER MORE

[1]IDC White Paper, sponsored by AMD, Accelerate Your Organization's AI Strategy by Deploying High-Performance AI PCs, document #US53192925, February 2025.

[2]Microsoft, End of support for Windows 10, Windows 8.1, and Windows 7, 2025.

[3]IDC, FutureScape: Worldwide Connected Devices 2025 Predictions, doc #US52635024, October 2024.

[4]GD 243: Trillions of Operations per Second (TOPS) for an AMD Ryzen processor is the maximum number of operations per second that can be executed in an optimal scenario and may not be typical. TOPS may vary based on several factors, including the specific system configuration, AI model, and software version. GD-243.

[5]Ryzen™ AI is defined as the combination of a dedicated AI engine, AMD Radeon™ graphics engine, and Ryzen processor cores that enable AI capabilities. OEM and ISV enablement is required, and certain AI features may not yet be optimized for Ryzen AI processors. Ryzen AI is compatible with: (a) AMD Ryzen 7040 and 8040 Series processors and Ryzen PRO 7040/8040 Series processors except Ryzen 5 7540U, Ryzen 5 8540U, Ryzen 3 7440U, and Ryzen 3 8440U processors; (b) AMD Ryzen AI 300 Series processors and AMD Ryzen AI PRO 300 Series processors; (c) all AMD Ryzen 8000G Series desktop processors except the Ryzen 5 8500G/GE and Ryzen 3 8300G/GE; (d) AMD Ryzen 200 Series processors and Ryzen PRO 200 Series processors except Ryzen 5 220 and Ryzen 3 210; and (e) AMD Ryzen AI Max Series processors and Ryzen AI PRO Max Series processors. Please check with your system manufacturer for feature availability prior to purchase. GD-220e.

[6]As of May 2023, AMD has the first available dedicated AI engine on an x86 Windows processor, where 'dedicated AI engine' is defined as an AI engine that has no function other than to process AI inference models and is part of the x86 processor die. For detailed information, please check: https://www.amd.com/en/technologies/xdna.html. PHX-3a.

[7]STXP-06a: Based on AMD product specifications and competitive products announced as of March 2025. AMD Ryzen™ AI PRO 300 Series processors' NPU offers up to 55 peak TOPS. This is the most TOPS offered on any system found in enterprise today. AI PC is defined as a laptop PC with a processor that includes a neural processing unit (NPU). STXP-06a.

[8]RMBR-01: Projected based on testing by AMD Labs as of 4/11/22. Battery life evaluated in hours of continuous 1080p local video playback with a HP EliteBook 865 G9 configured with an AMD Ryzen 7 PRO 6850U processor with Radeon 680M graphics, 76 WHr battery, 150 nit screen brightness, 256GB HDD, 8GB memory, Win 10 Pro, video resolution of 1920 x 1200 x 60 Hz and the power slider set to "better battery." Actual battery life will vary based on several factors, including, but not limited to product configuration and usage, software, operating conditions, wireless functionality, power management settings, screen brightness and other factors. The maximum capacity of the battery will naturally decrease with time and use.

[9]9STXP-12. HP EliteBook X G1a with AMD Ryzen™ AI 9 HX PRO 375 processor. Dell Latitude 7450 with Intel Core Ultra 7 165H processor (vPro enabled). The HP EliteBook X G1a with an AMD Ryzen™ AI 9 HX PRO 375 processor offers up to 53% higher performance when compared to the Dell Latitude 7450 with an Intel Core Ultra 7 165H in the Cinebench R24 nT benchmark.

[10]STXP-16. HP EliteBook X G1a with AMD Ryzen™ AI 9 HX PRO 375 processor. Dell Latitude 7450 with Intel Core Ultra 7 165H processor (vPro enabled).The HP EliteBook X G1a with AMD Ryzen™ AI 9 HX PRO 375 processor offers up to 60% higher performance when compared to the Dell Latitude 7450 with an Intel Core Ultra 7 165H processor when running the Passmark 11 (overall) benchmark.

[11]SHOP-04: Testing as of November 2024 by AMD Performance Labs using the following benchmarks: SPECapc Solidworks 2024, SPECapc PTC Creo, SPECviewperf 2024, Luxion Keyshot. Configuration for AMD Ryzen™ AI Max+ PRO 395 processor: AMD reference board, Radeon™ 8060S graphics, 128GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Intel Core Ultra 9 185H processor: Dell Precision 5490 14", Nvidia RTX 3000 Ada Graphics (8GB), 64GB RAM, 1TB SSD, VBS=ON, Windows 11. Laptop manufacturers may vary configurations yielding different results.

[12]SHOP-05: Testing as of November 2024 by AMD Performance Labs using the following benchmarks: Revit 2025 benchmarks, Cadalyst AutoCAD benchmark 2022, Corona Render.Configuration for AMD Ryzen™ AI Max+ PRO 395 processor: AMD reference board, Radeon™ 8060S graphics, 128GB RAM, 1TB SSD, VBS=ON, Windows 11.Configuration for Intel Core Ultra 9 185H processor: Dell Precision 5490 14", Nvidia RTX 3000 Ada Graphics (8GB), 64GB RAM, 1TB SSD, VBS=ON, Windows 11. Laptop manufacturers may vary configurations yielding different results.

[13]SHOP-03: Testing as of November 2024 by AMD Performance Labs using the following benchmarks: Puget Adobe Premiere Pro, Puget After Effects, Cinebench R24 (n-thread), V-Ray Benchmark 6 (CPU).Configuration for AMD Ryzen™ AI Max+ PRO 395 processor: AMD reference board, Radeon™ 8060S graphics, 128GB RAM, 1TB SSD, VBS=ON, Windows 11.Configuration for Intel Core Ultra 9 185H processor: Dell Precision 5490 14", Nvidia RTX 3000 Ada Graphics (8GB), 64GB RAM, 1TB SSD, VBS=ON, Windows 11. Laptop manufacturers may vary configurations yielding different results.

[14]SHOP-06: Testing as of November 2024 by AMD Performance Labs using the following benchmarks: Chromium Compilation, Unreal Engine 5.3 Compilation. Configuration for AMD Ryzen™ AI Max+ PRO 395 processor: AMD reference board, Radeon™ 8060S graphics, 128GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Intel Core Ultra 9 185H processor: Dell Precision 5490 14", Nvidia RTX 3000 Ada Graphics (8GB), 64GB RAM, 1TB SSD, VBS=ON, Windows 11. Laptop manufacturers may vary configurations yielding different results.