5 Reasons Healthcare Organizations Need Intel-Powered AI PCs

Accelerate innovation and productivity in healthcare

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The AI PC era has arrived

AI is here, bringing new opportunities—and new demands—for healthcare organizations.

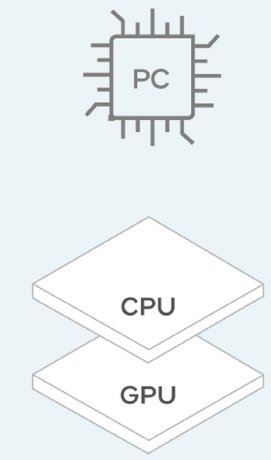
New apps and technologies hit the market every day, unlocking previously unimaginable advances in patient care, clinician efficiency, compliance, and operational resilience. That's why **92% of enterprise organizations surveyed** plan to increase their AI investments over the next three years.[1]

As you prepare to refresh your PC fleet in this rapidly shifting landscape, you need specialized hardware designed to support emerging, compute-intensive AI technology.

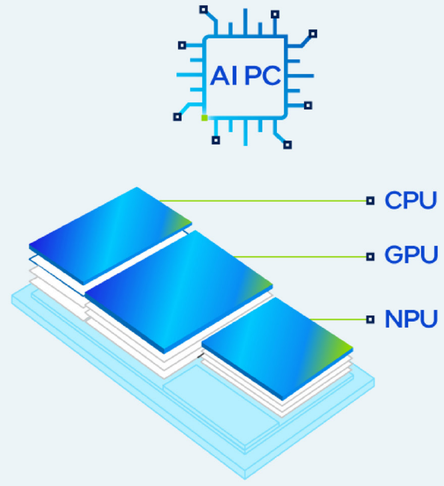
You need AI PCs.

What is an AI PC?

Legacy PCs still have to handle most AI workloads in the cloud to avoid local performance issues. AI PCs add a neural processing unit (NPU) to share workloads with the CPU and GPU to optimize performance, efficiency, and security.



Runs AI tasks in the cloud to avoid local performance issues



Optimized to run AI tasks locally without loss of performance

NPUs handle sustained, heavily used AI tasks at lower power.

Built for business, enhanced with AI

AI PCs built on the Intel vPro® platform and powered by Intel® Core™ Ultra processors are designed to help your organization get more out of AI.

These reliable, high-performance PCs are optimized for today's healthcare needs and tomorrow's advanced AI workloads. Three compute engines work in concert to handle AI apps and features without slowing down system performance.

The dedicated AI acceleration capabilities in AI PCs built on Intel vPro help you achieve:

- Improved clinical decision-making
- Advanced data visualization and analytics
- Smarter, hardware-based security
- Highly efficient remote management
- Reduced clinician burnout

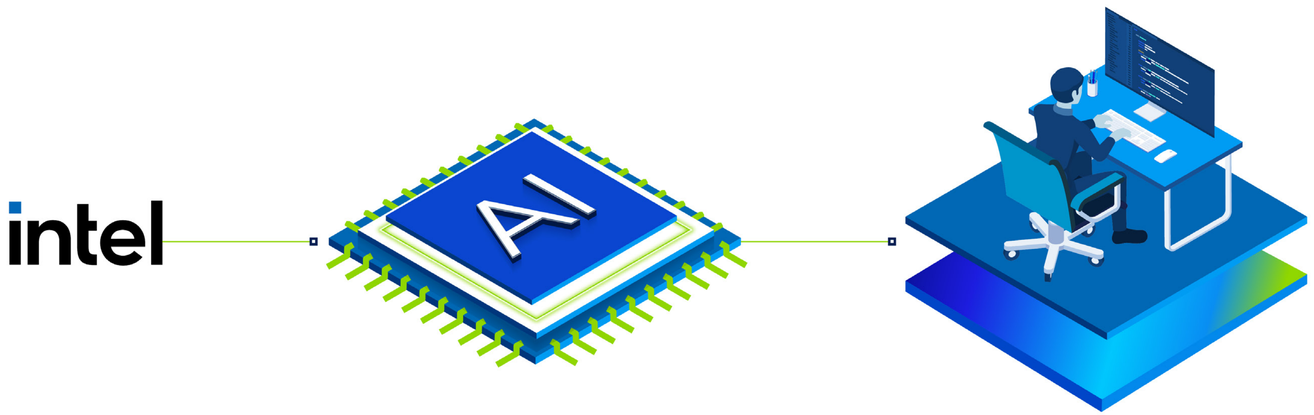
In this eBook, we explore five key reasons your healthcare organization should build its future with AI PCs designed with Intel vPro.

1

Amplifying clinical intelligence

New AI apps and features are coming our way at an ever-accelerating pace—and now you can put them in the hands of your providers and support staff without slowing down system performance. Choosing Intel gives your people access to more than **400 AI features** that promote productivity, collaboration, security, and clear communications. All backed by Intel's **decades of experience** designing and manufacturing industry-leading hardware.

This means a happier, more engaged workforce that gets more done with less downtime and less burnout risk.



The AI PC era | Productivity | ROI | Security | AI ecosystem | Innovation | Ready for the future

SPOTLIGHT

WiNGPT

Healthcare organizations can use large language models (LLMs) to enhance medical literature analysis, healthcare Q&A, and imaging diagnosis. Built by Winning Health Technology Group for Intel-powered AI PCs, WiNGPT provides healthcare-focused LLM features without many drawbacks of other models.

- Optimized LLM performance meets model inference requirements, resulting in benefits like fast medical report generation and improved user experiences.
- Taking advantage of general-purpose servers already in use keeps platform-building costs under control, reducing costs of procurement, deployment, operation, maintenance, and energy consumption.
- Flexible allocation of compute power improves agility and performance.

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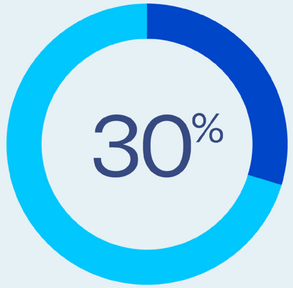


admin tasks automated

Up to 30% of nurses' administrative workloads can be automated with AI, allowing more time for direct patient care[2]

Embracing the future of healthcare

AI PCs built on Intel vPro boost productivity and accessibility in multiple ways.

Automating mundane tasks: According to 92% of clinicians surveyed, too much administrative time leads to burnout.[3] Equip staff with AI PCs to improve automation of necessary but time-consuming tasks, such as transcribing doctor/patient conversations and summarizing clinical notes.

Enabling intelligent assistants: Agents and apps like GE HealthCare's Critical Care Suite help more people get more done by streamlining task management, expediting time to diagnosis, and flagging critical cases during triage.

Enhancing communication: AI-enabled features like smart framing, noise suppression, and eye tracking improve communications in telehealth sessions and hybrid care and foster deeper collaboration throughout the dispersed workforce.

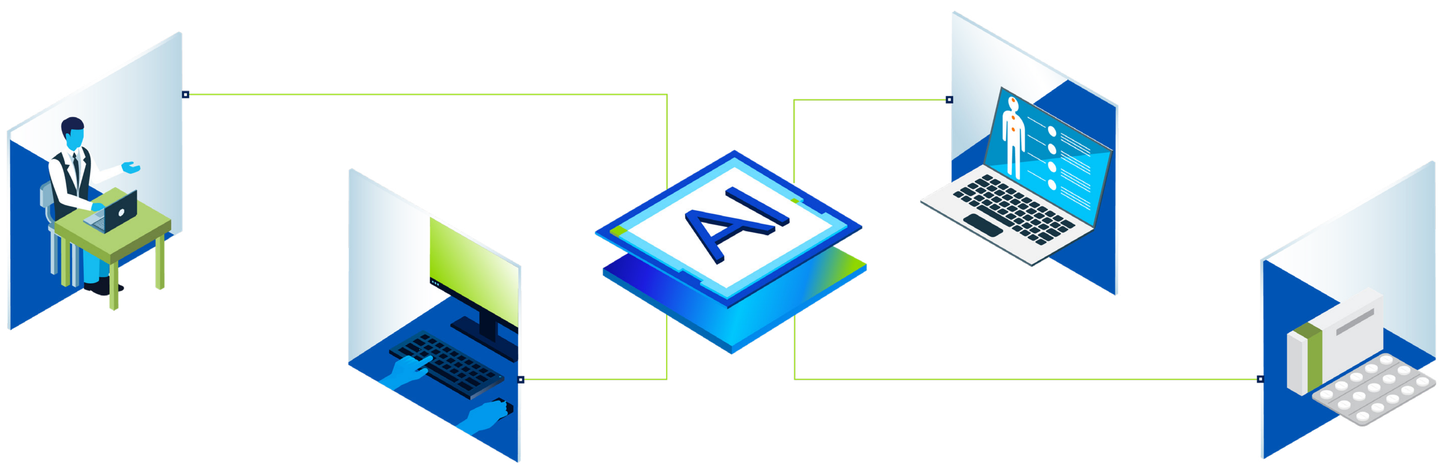
Optimizing power: Resource-hungry AI apps slow down legacy PCs, but AI PCs share these workloads with NPUs built for sustained, energy-efficient performance. This means frontline healthcare workers can worry less about charging their devices and stay more productive on the go.

2

Streamlining operations

Large healthcare organizations rely on IT staff to support a complex, distributed workforce that uses more devices and operating systems than ever before. New capabilities lead to heightened expectations—from insurers, regulators, providers, and support staff—which in turn drive the need for **new, future-ready machines**.

Upgrading your PC fleet will involve some of the most important decisions you'll face. Productivity, security, compliance, and sustainability goals all demand your attention—and your budget. With AI PCs built on Intel vPro, **a large organization can see up to 213% ROI over three years**.[4]

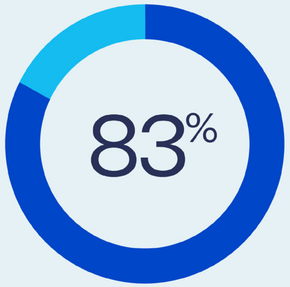


SPOTLIGHT

Intel® Active Management Technology (Intel® AMT)

Comprehensive remote device management streamlines IT processes throughout a healthcare organization.

- BIOS-level access to all devices, even when they're powered down or unresponsive, helps you get ahead of problems without costly on-site visits.[5]
- Intel AMT offers multiple activation paths. You can choose self-hosted or Intel-delivered activation or use your favorite unified endpoint management (UEM) software.



faster resolution

IT pros surveyed say they resolve hardware-related issues faster with Intel vPro based devices[6]

Freeing up valuable resources

Improve life cycle management and boost ROI with AI PCs built on Intel vPro.

Enhance system performance: The onboard NPU helps your people run AI workloads locally with fewer performance issues, which improves productivity and heightens data security.

Reduce downtime: PCs built on Intel vPro help keep your workforce running smoothly while enhancing security and flexibility with out-of-band management plus remote patching and remediation.[7]

Lower your costs and save time: Benefits like operational and power efficiencies, stronger security, greater productivity, and fewer cloud subscriptions add up fast. And the Intel® Stable IT Platform Program (Intel® SIPP) makes it easier to deploy AI PCs on your own schedule.

Prevent end-user issues: AI PCs designed with Intel vPro have fewer issues, along with built-in predictive technology that speeds resolution, which can reduce ticket counts by 40% and free up IT resources for growth and innovation.[8]

3

Securing sensitive data against evolving threats

New security threats come at us every day. A recent study found that 92% of healthcare organizations surveyed had undergone a cyberattack in the last 12 months.[9] And cyberattacks are expensive. UnitedHealth Group anticipates a total cost of $2.87 billion from the Change Healthcare ransomware attack in 2024.[10]

HIPAA and other regulatory mandates mean that healthcare organizations urgently need to stay **ahead of today's threat landscape**, where new AI-driven attacks are flourishing.

AI PCs built on trusted Intel vPro technology **start protecting from the moment of boot up**—and even when they're powered down, if you choose Intel AMT. In a recent survey, 83% of IT leaders reported that Intel vPro hardware-enabled security improves confidence among their organization's leaders and workforce.[11]

SPOTLIGHT

Intel® Threat Detection Technology (Intel® TDT)

Hardware-based Intel TDT helps protect healthcare organizations by profiling and detecting malware on devices enhanced with Intel vPro using CPU telemetry and machine learning algorithms.

- Intel TDT enables software-based security solutions to scan deeper and more frequently to find file-less attacks sooner.
- An essential part of Intel vPro, it's built into the hardware to detect ransomware and software supply chain attacks.
- Intel works with leading security software vendors to pre-integrate Intel TDT so your IT teams can quickly activate hardware-based security capabilities.

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93%
of ransomware detected

Intel TDT detected 93% of known and unknown threats when tested[12]

Protecting your patients, data, and systems

In a world of advanced threats, you need advanced security.

Local handling of AI workloads: AI PCs built on Intel vPro augment your existing security solutions and run more workloads locally, avoiding unnecessary sharing and communication with cloud servers.

Advanced hardware-based security: The AI-enhanced multilayer security features included in Intel vPro help you monitor and adapt to new threats as they arise. Defend against 150 threats identified by the MITRE ATT&CK knowledge base with built-in countermeasures.[13]

Streamlined IT management: Automating processes reduces the time and cost it takes to protect frontline workers. Using AI PCs built on Intel vPro helps you reduce the number of incidents and mitigate the effects when they do occur.

Remote patching: Delivering patches and security updates remotely makes these advanced AI PC workstations much easier to protect.[14]

4

Unlocking new opportunities

Healthcare leaders are pivoting to **new strategies built on AI** to enhance compliance, quality assurance, collaboration, and other critical needs. No one knows exactly what's coming next—but we do know that more and better AI features will come faster and faster as developers take advantage of new technology.

That's why innovative, forward-looking healthcare organizations choose AI PCs designed with Intel vPro.

Intel has built **decades of trust** with customers and developers by consistently empowering better patient and provider experiences.

SPOTLIGHT

GE HealthCare's Critical Care Suite

This groundbreaking AI imaging algorithm, built on the Intel® Distribution of OpenVINO™ toolkit, helps clinicians make faster, better-informed decisions.

- The algorithm is embedded on the imaging device to simplify integration.
- Diagnosis accelerated by 3.3 times compared to imaging without AI optimization.[15]
- Healthcare organizations can use OpenVINO to create their own AI solutions to help improve patient outcomes.

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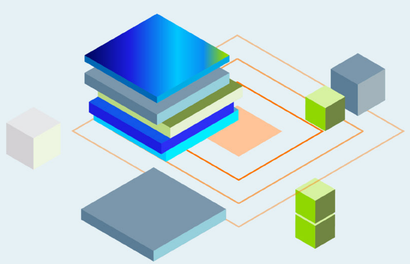
INTEL'S GROWING ECOSYSTEM

200+

ISVs

400+

AI apps and features



Winning the future

Only Intel can cultivate an AI ecosystem at this scale.

Proven track record: Deep collaboration with a robust developer network helps ensure Intel's hardware is optimized for uptime and ready for demanding AI workloads. Make sure you can run new electronic health record systems, telehealth, advanced diagnostic tools, and other critical healthcare applications when you need them.

Massive library of supported AI software: Intel has one of the broadest ISV ecosystems in the PC processor industry. More than 400 AI apps and features are optimized for AI PCs powered by Intel today—and Intel's ready to run many more that haven't been dreamed up yet.

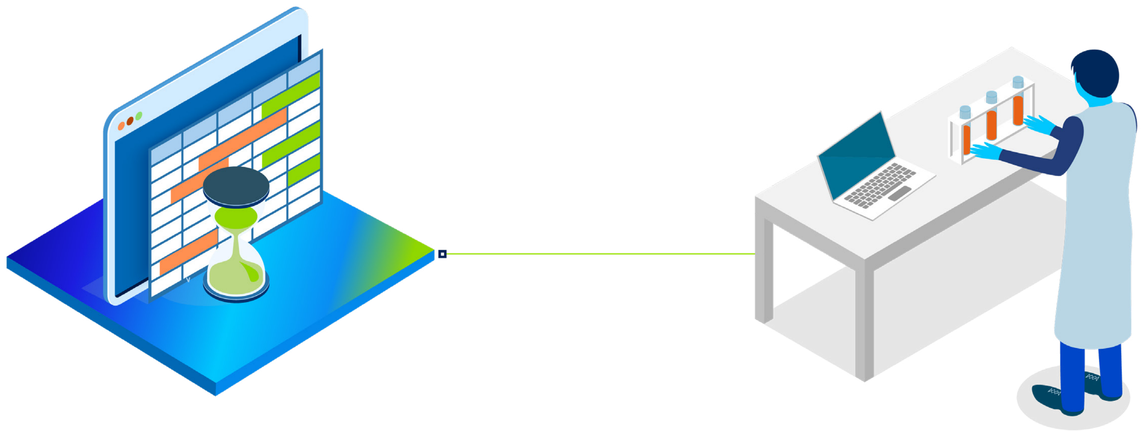
AI runs best on Intel:[16] By co-developing with more than 200 ISVs, Intel makes sure that your providers and support staff will get the best AI experiences with Intel vPro.

5

Handling tomorrow's workloads

To help your healthcare organization embrace the future with confidence, you'll need to invest in AI PCs that are ready for the next generation of apps and features. The ability to run advanced AI-powered healthcare tools that support provider needs like clinical decision-making and digital pathology makes it easier to **adapt to a rapidly evolving landscape**.

And as new features that will only run on AI PCs come to market, **the time to adapt is now**.



SPOTLIGHT

AI PC Acceleration Program

Intel's commitment to customers means a laser focus on helping developers optimize their apps and tools for Intel hardware.

The AI PC Acceleration Program puts more apps and features into your hands by connecting developers with Intel resources such as:

- AI toolchains
- Co-engineering
- Software optimization
- Design resources
- Technical expertise

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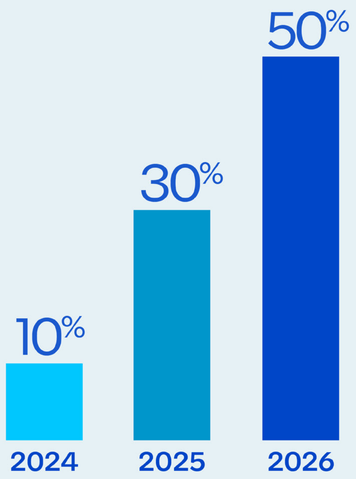

AI PC adoption is growing fast

Large organizations are
quickly adding AI PCs to their fleets[17]

Adapting to new possibilities

As work and business adjust to integrate AI, you can get ahead of the game with Intel.

Handle the data deluge: In a 2024 survey, healthcare leaders reported that only 53% of their data informs business decisions.[18] AI PCs built on Intel vPro are ready to help you generate deeper insights from more of your data.

Reduce costs: Healthcare costs are growing steadily and expected to keep growing. Integrating AI PCs with existing IT infrastructure can help you intelligently optimize workloads and extend the value of your investments.

Boost productivity: The World Health Organization anticipates a shortfall of 11 million health workers globally by 2030.[19] Get ahead of staffing issues by helping your people get more done.

Ready for business, ready for the future

AI is changing the way we work. Healthcare organizations that start adapting to these changes now will be **well positioned for future wins**.

As workloads grow more complex, as the pace of innovation accelerates, and as IT staff face new expectations, healthcare organizations will lose their competitive edge if their hardware can't keep up.

Intel Core Ultra processors are **purpose-built for this new era**. Choose AI PCs built on Intel vPro to improve patient outcomes, enhance clinical efficiency, safeguard data and patient privacy, and **take advantage of new possibilities**.

Harness the power of AI with Intel vPro® based AI PCs optimized with CDW services.

Connect with a CDW representative

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[1] McKinsey, "Superagency in the workplace: Empowering people to unlock AI's full potential," www.mckinsey.com/capabilities/mckinsey-digital/our-insights/superagency-in-the-workplace-empowering-people-to-unlock-ais-full-potential-at-work, 2025.

[2, 3] Accenture, "How talent and technology can help solve the nursing shortage," www.accenture.com/us-en/insights/health/solving-the-nursing-shortage, 2023.

[4,6,8] Based on "The Total Economic Impact™ of the Intel vPro Platform," an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study's findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees. See www.intel.com/content/dam/www/central-libraries/us/en/documents/2023-12/tei-of-intel-vpro-as-endpoint-standard.pdf for details.

[5, 7, 14] Remote management requires a network connection; must be a known network for Wi-Fi out-of-band management. See www.Intel.com/Performance-vPro for details. Results may vary.

[9] Proofpoint, "2024 Ponemon Healthcare Cybersecurity Report," www.proofpoint.com/us/resources/threat-reports/ponemon-healthcare-cybersecurity-report, 2025.

[10] The HIPAA Journal, "Judge Sets Deadline for Motions to Dismiss Claims in Change Healthcare Data Breach Lawsuits," www.hipaajournal.com/change-healthcare-responding-to-cyberattack, 2025.

[11] "The Total Economic Impact™ of the Intel vPro Platform," an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro® platforms, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. Results may vary. See www.intel.com/content/dam/www/central-libraries/us/en/documents/2023-12/tei-of-intel-vpro-as-endpoint-standard.pdf for details.

[12] SE Labs, "Enterprise Advanced Security (Ransomware), CPU Detection, Intel Threat Detection Technology," selabs.uk/reports/enterprise-advanced-security-ransomware-intel-threat-detection-technology-2023-02, 2023.

[13] 150 count represents cumulative Intel vPro unique techniques/sub techniques that span Microsoft Windows 11, Microsoft Defender, and CrowdStrike Falcon as of January 4, 2025. See https://community.intel.com/t5/Blogs/Tech-Innovation/Artificial-Intelligence-AI/Intel-AI-PCs-Deliver-an-Industry-Validated-Defense-vs-Real-World/post/1650954 for details.

[15] System test configuration disclosure: Intel® Core™ i5-4590S CPU @ 3.00GHZ, x86_64, VT-x enabled, 16GB memory, OS: Linux magic x86_64 GNU/Linux, Ubuntu 16.04 inferencing service docker container. Testing done by GE Healthcare, September 2018. Test compares TensorFlow model total inferencing time of 3.092 seconds to the same model optimized by Intel® Distribution of OpenVINO™ toolkit optimized TF model resulting in a total inferencing time of 0.913 seconds.

[16] Refers to client applications, based on the broad compatibility, extensive software options, unique architecture, and impressive performance of Intel® Core™ Ultra processors that combine to deliver the best overall AI experience, including in comparison to competition processors (as of December 2024). AI features may require additional purchase or specific compatibility requirements. See www.Intel.com/PerformanceIndex for details. Results may vary.

[17] Canalys Insights, "Lunar Lake to add momentum to Intel's AI PC goals," 2024. Canalys Principal Analyst Ishan Dutt interviewed Todd Lewellen, Vice President and General Manager of PC Ecosystem at Intel, contributing to this Canalys forecast about how much the AI PC share will grow by 2026. Lunar Lake is the former codename of Intel® Core™ Ultra 200V series processors. See www.canalys.com/insights/lunar-lake-momentum-intel-ai-pc-goals for more details.

[18] Arcadia, HIMSS, "2024 HIMSS MARKET INSIGHTS SURVEY," 2024. HIMSS Market Insights surveyed U.S. healthcare leaders (directors and above) in December 2023. A total of 100 screened and qualified respondents participated in the research, which focused on data analytics platforms and data utilization in hospitals and health systems.

[19] World Health Organization, "Health workforce," www.who.int/health-topics/health-workforce, retrieved March 2025.

Intel technologies may require enabled hardware, software, or service activation.

All versions of the Intel vPro® platform require an eligible Intel processor, a supported operating system, Intel LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. Remote management requires a network connection; must be a known network for Wi-Fi out-of-band management. See www.Intel.com/Performance-vPro for details.

Performance varies by use, configuration, and other factors. Learn more at www.Intel.com/PerformanceIndex.

AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Data latency, cost, and privacy advantages refer to non-cloud-based AI apps. Learn more at Intel.com/AIPC.

No product or component can be absolutely secure. Learn more at www.Intel.com/PerformanceIndex (Security & Manageability).

Your costs and results may vary.