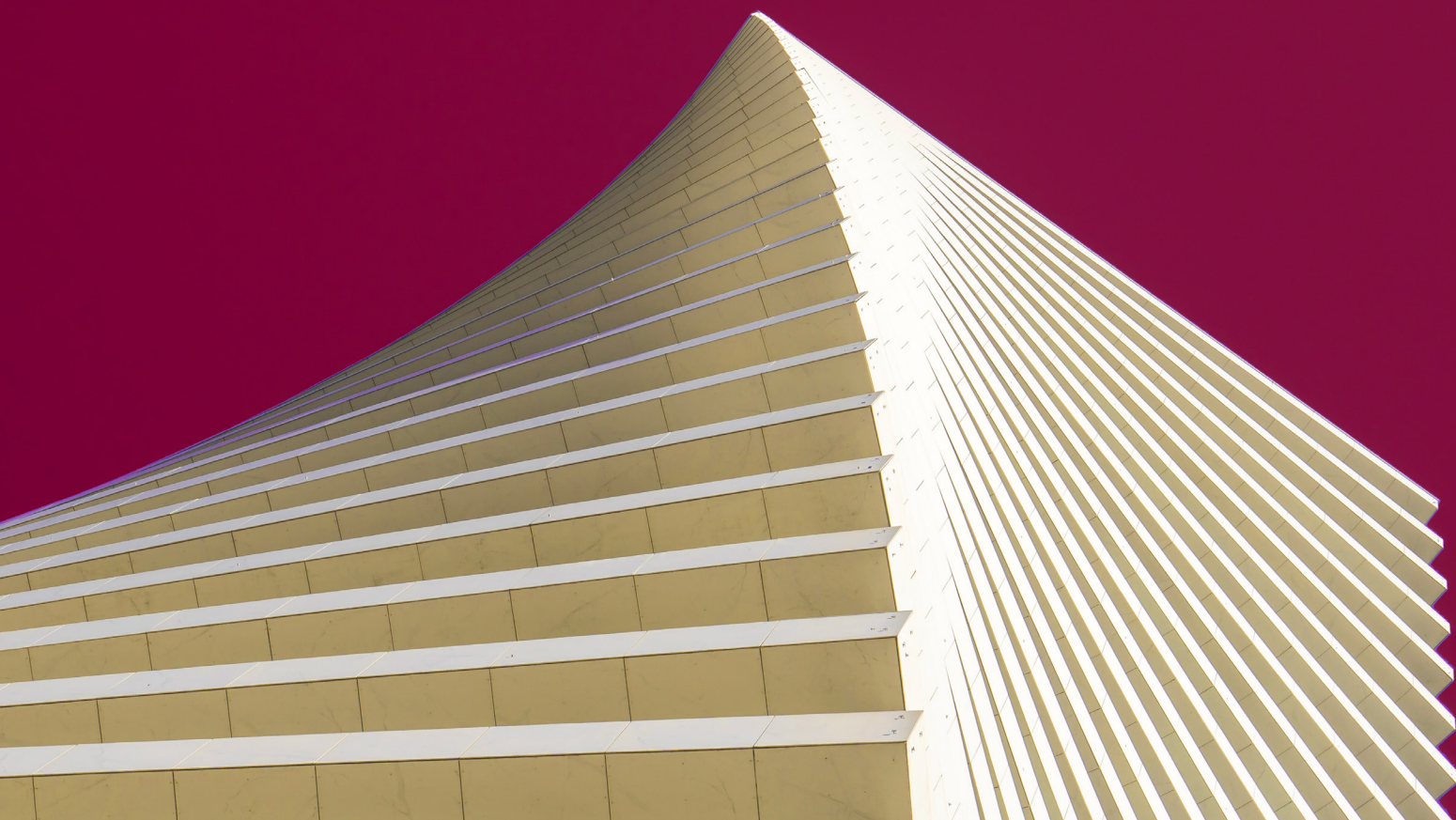# DELLTechnologies

intel
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Give Your Workforce a Boost with Trusted AI PCs*

Unlock new potential for your small business with Dell AI PCs powered by Intel® Core™ Ultra processors

Introduction

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Choosing the right devices for your workforce is more important than ever, and time is of the essence. Employees need the power to work from anywhere with modern tools, which also happen to be more reliable and secure. Meanwhile, your IT resources might soon be stretched further, with Windows 10 reaching "end-of-support" in October 2025. In fact, many organizations are expected to respond with PC refreshes. **Aberdeen research shows 47% of organizations plan to increase laptop spending in 2025.**[1]

Artificial intelligence (AI) technologies are getting all the buzz, but does AI even matter at the hardware level? The answer is Yes. While AI computing has mostly revolved around cloud-based solutions, demand for on-device AI is growing. To unlock AI's full potential, your users need a purpose-built PC that's ready for the future. The right AI PC can bypass cloud-based latency, offer greater control over data privacy, and handle workloads without an internet connection.

Essentially, AI PCs empower your entire organization with smarter ways to work. The hardware and software components are specifically designed for AI applications that drive efficiency. And now, it's easier than ever to bring the power of AI PCs into your business.

This eBook explores how to make sure your employees get the right devices at your next PC refresh—with the right capabilities for driving long-term value. We'll look at the trends behind AI PC adoption and essential considerations that impact security, manageability, and employee experience. Learn why Dell AI PCs with Intel® Core™ Ultra processors are the perfect choice for increasing agility in the new world of business.

The future is here:
AI PCs in the Modern Workplace

For the past few years, generative AI technologies (like ChatGPT) have quickly reshaped the way work gets done. Popular GenAI use cases have ranged from knowledge-management and marketing applications to code generation, graphic design, and AI-powered chatbots. But as the workloads grow increasingly complex, users can see their productivity slow down if their PC hardware isn't built to efficiently take advantage of the AI software features.

That's where a new generation of PCs comes in—the new AI PC. An AI PC is built with not only a CPU and a GPU, but also an NPU (neural processing unit) to handle AI workloads locally and more efficiently.

AI PCs are the smart choice for businesses of all sizes because they reduce the reliance on the cloud for AI workloads, which helps lower costs. AI PCs enable you to run AI locally, so you're not having to pay for cloud computing, processing, and storage. Plus, some AI workloads can run without an internet connection so that you can work on the go. Everyday tasks are faster with lower latency; and on-device AI mitigates the security vulnerabilities associated with data transmitted over networks.

84% of IT decision-makers agree that when making PC purchase decisions, AI capabilities are a top priority for every business size.[2]

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However, AI capabilities are just one motivating factor for an AI PC refresh. The reality is that aging hardware doesn't just make life harder for employees, but it also makes it harder for IT staff to keep the PCs fully managed and secure. The rise of remote/hybrid work models have created new needs for remote management, problem diagnosis, and repair, along with new urgency for deploying software and security updates.

According to an Enterprise Strategy Group survey, IT pros from small and medium-sized organizations place reliability and durability, IT manageability and operating costs, and performance as the most critical features for future PC purchases.[3] The common thread is that employees stuck with broken or lackluster PCs are massively unproductive.

Modern AI PCs are better prepared for the remote/hybrid workplace, where:

- Hybrid workers often participate in video conferences multiple times per day, while having a dozen or more browser windows open simultaneously.
- Computers that behave unpredictably impact productivity and morale. In fact, 58% of IT leaders have said that "poor technology" is causing between two and four hours of lost productivity every day.[4]
- Improved device security has a positive impact on productivity, due to fewer breaches and faster recovery times.[5]
- Technology can have a direct impact on business success. A recent IDC survey found that 85% of respondents agreed that higher employee engagement translates into a better customer experience, higher customer satisfaction, and increased revenues.[6]

Bottom line: AI PCs are perfect for small businesses that need to work smart and fast, backed by hassle-free security features and the latest tools for remote management. Read on to find out how Dell AI PCs powered by Intel® Core™ Ultra processors deliver on all this and more.

Achieve more with Windows 11

As Windows 10 "end-of-support" draws closer, now is the time to transform your business users' experiences with increased productivity and comprehensive security. Dell AI PCs with Windows 11 Pro and Intel® Core™ Ultra processors offer advanced features, such as:

- Flexible system intelligence that intuitively adapts to complex workflows and assigns the right task to the right core at the right time. **The result: 42% faster completion of demanding workloads.[7]**

- Enable real-time assistance and automate tasks by easily integrating AI into apps.

- An integrated foundation with virtualized security and hardware-based AI threat detection right out of the box. **Studies show: 3x reduction in firmware attacks.[8]**

In addition, Dell AI PCs with Intel® Core™ Ultra processors and Intel vPro® feature a performance-based hybrid architecture that is 2.3x faster than three-year old PCs,[9] and Windows 11 Pro includes enhancements that provide 61% longer battery life with more responsive system performance.[10]

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Harness the power of simplified management

In today's growing businesses, PC fleet management is increasingly complicated, costly, and time-consuming. The trend of hybrid work means that physical access to employee PCs is exceedingly rare. That's why Dell AI PCs with Intel® Core™ Ultra processors and Intel vPro® emphasize reliability, stability, and remote management.

In terms of reliability and stability, Dell and Intel have worked together to validate the OS compatibility with business workloads. Systems are built, configured, and run in the same way your IT staff would do it in the real world. What's more, the Intel® Stable IT Platform Program (Intel® SIPP) helps ensure stability by aiming for no changes to hardware, drivers, or firmware for 15 months before product launch. This helps reduce the risk of upgrade issues.

With built-in remote management features, your IT staff can support employees working from virtually anywhere—without having to touch the PC. In-depth device information, including identity and history, helps IT to streamline and automate operations, cutting down on the time, cost, and travel needed to maintain a dispersed workforce.

Intel® Active Management Technology (Intel® AMT) comes standard on Dell AI PCs with Intel® Core™ Ultra processors and Intel vPro®, so your organization can ease the burden of PC management. IT staff can remotely diagnose, repair, or retire PCs via Intel Endpoint Manager or other third-party endpoint management tools. Full KVM (keyboard, video, mouse) access is also supported, providing IT control even when the OS is not working. In addition, Intel® AMT provides quick backups and full visibility when recovering devices remotely.

By empowering IT with the right PC manageability features, your organization can move towards sustainable computing—by reducing the need for deskside visits. And the features offer the added value of greater IT and user efficiencies.
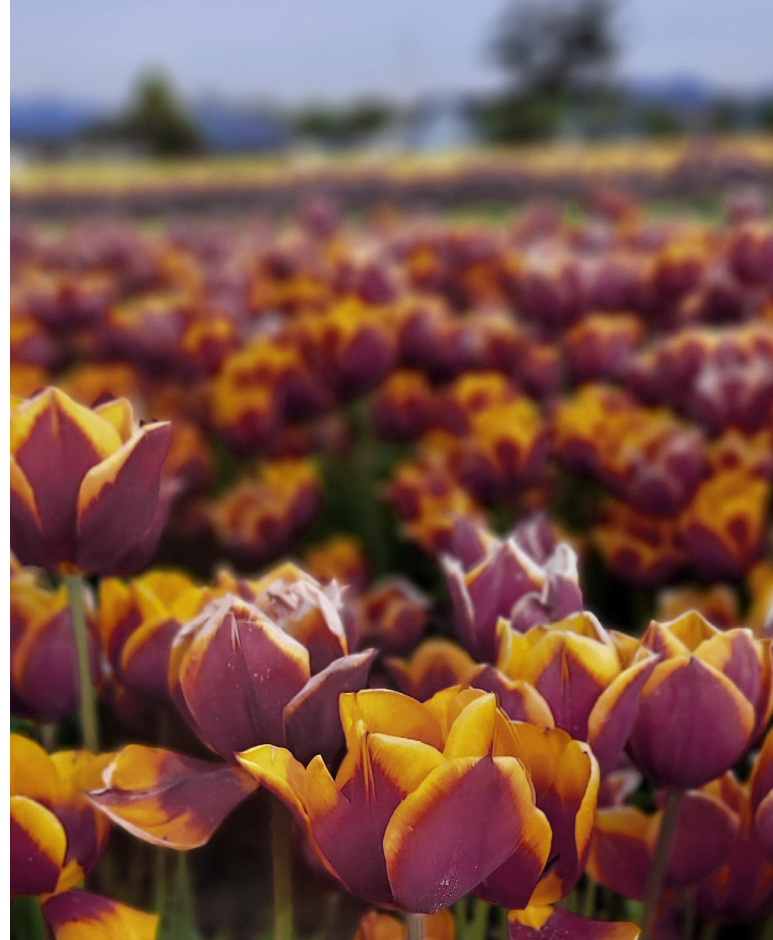
Essentials for AI PC manageability

- Automatic distribution and logging of software and security updates to help protect against threats
- Remote management over both wired and wireless connections
- Cradle-to-grave device lifecycle management
- Predictive diagnostics to catch problems before they happen
- Diagnostics and repairs that run in the background—without disrupting users
- Remote control, even when devices are in standby or sleep mode
- Rebuilds and asset tracking over the network
- Secure power-on for patching and maintenance

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Protect against emerging threats with built-in security

Small businesses are often targeted by cyber-attacks, and the nature of these attacks is constantly evolving. Dell AI PCs with Intel® Core™ Ultra processors and Intel vPro® provide out-of-the-box, below-the-OS protection from modern attacks. In addition, Intel® Threat Detection Technology (Intel® TDT) works with Microsoft Defender in Windows 11 to identify and neutralize attacks, such as ransomware, without sacrificing performance.

In fact, the combination of built-in PC hardware security and new AI-enhanced software security can detect security threats much faster than software security alone. The advanced threat detection uses a combination of CPU telemetry, persistent scanning by GPU spare cycles, and AI security algorithms that run on the new NPU. Advanced features enabled by AI models range from deep fake detection to anti-phishing protection to enhanced privacy and analytics.

84% of the attack surface is reduced on AI PCs vs. older PCs, according to Intel® and IOActive.[11]

AI and machine learning (ML) models have actually played a key role in endpoint security solutions for several years. The key difference is that AI PCs can now provide robust, AI-powered security with minimal impact on system performance.

Dell has the world's most secure commercial AI PCs* with unique built-in security features that help reduce the attack surface and improve cyber resilience, like BIOS Verification* and Indicators of Attack* that help detect threats before they do damage.[12]

Moreover, Dell AI PCs with Intel® Core™ Ultra processors also make it easier to ensure compliance with the latest cybersecurity regulations. The combination of Dell AI PCs, Intel processors and Windows 11 Pro provides layers of hardware and software backed protection to help against latest threats to safeguard sensitive business information.

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Boost the user experience and business growth

With dedicated AI acceleration capabilities built into the hardware, Dell AI PCs with Intel® Core™ Ultra processors provide the business computing foundation your workers need to boost productivity, collaboration, and creativity.

Elevate productivity across the organization
Your workforce uses AI in different ways, but the beauty of working with Dell and Intel is that you can find the right AI PC to meet the needs of your entire user base.

For knowledge workers, you can equip them with AI PCs to work smarter in their everyday tasks. The Dell Pro AI PCs with Intel® Core™ Ultra processors improve audio/video tasks, image generation, translation, content creation, search, and more.

For power users that need to innovate, create content, and solve intricate problems, Dell AI PCs expand what's possible that deliver game-changing performance and efficiency. Studies show 3x faster inferencing speed when running widely used large language models, that help you get more done, faster.[13] Dell Pro Max AI PCs can also be perfectly tuned to meet the needs of AI builders, those users focused on designing, building, and implementing AI models and systems.

Enable effortless collaboration
Dell AI PCs powered by Intel® Core™ Ultra processors are built for modern work, where the big decision-making often takes place online. Empower your workers to:

- Run Zoom calls with up to 42% less power for AI-enhanced collaboration.[14]
- Use OmniBridge to translate conversations live from English to American Sign Language.
- Automatically correct eye gaze, auto-frame their virtual presence, and blur their background with Windows Studio effects.

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In addition, the collaboration experience is even better with Dell PC accessories. Dell offers a portfolio of intelligent headsets with AI-based noise cancellation technology, intelligent webcams with high image clarity, and enhanced Eye Comfort Monitors that adapt to ambient light. Dell Peripherals are designed and tested to seamlessly integrate with the latest PC operating systems—reducing setup time and boosting uptime across the ecosystem.

Tap into creativity
Dell AI PCs powered by Intel® Core™ Ultra processors make it easier for your users to bring their creativity to life—and fine-tune their work. They can:

- Create fully editable custom designs and text 1.9x with Cyberlink's Promeo AI Magic Designer[15]

- Don't disrupt your creative workflow and get up to 2.5 longer battery life when using Cyberlink's PowerDirector AI, with NPU hardware acceleration enabled.[16]

- Enjoy up to 132% faster performance when running on-device AI photo editing on Adobe.[17]

Dell AI PCs can also be paired with the latest accessories to boost creativity. For example, Dell UltraSharp monitors provide reliable color accuracy and easy connectivity, so your users can stay focused on turning ideas into reality.

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Get the right AI PCs for an AI-driven future

Although it might not seem possible, your next PC refresh can actually be welcomed by IT—and rewarding for your business. AI PCs are built to make the most of AI-enhanced software, which is radically reshaping how we all work. Your users can be more productive, your IT staff can manage IT more efficiently, and your environment can be more secure.

Harness the power of AI for your business. Discover how Dell AI PCs with Intel® Core™ Ultra processors and Windows 11 Pro can help boost performance, security, productivity, and overall business value.

Explore Dell AI PCs with Windows 11 Pro ❯

Sources

* Dell is the world's leading commercial AI PC brand. Based on IDC Worldwide Quarterly Personal Computing Device Tracker, Nov 6, 2024 – Units

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9 Disclaimer: For all workload and configuration details, see www.intel.com/Performance. Results may vary.

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11 Based on IOActive's "Intel vPro 13th Gen Attack Surface Study," published March 2023 (commissioned by Intel), which evaluates Intel vPro devices powered by 13th Gen Intel Core processors against four-year-old Intel-based PCs on Windows OS. Details at www.intel.com/performance-vpro. Results may vary.

12 Based on Dell internal analysis, October 2024. Applicable to PCs on Intel processors. Not all features available with all PCs. Additional purchase required for some features. Validated by Principled Technologies. A comparison of security features, April 2024.

13 Based on LLMWare testing, November 2024 on Dell devices with Intel® Core™ Ultra 200V series processor compared to devices with Mac M3 Max processors. Large Language Models include: llama, llama2, mistral, phi-3, and yi-9b.

14 Based on internal analysis and testing, compared to previous generation Intel® Core™ Ultra processor, September 2024. Select AI-enhanced collaboration features include, eye contact correction, standard blur, portrait blur, automatic framing, calls with audio only, virtual background running on devices with Intel® Core™ Ultra 200V series processor. Results may vary.

15 Based on internal analysis and testing, November 2024. Cyberlink's Promeo AI Magic Designer running on devices with Intel® Core™ Ultra 200V series processors was compared to previous-generation Intel® Core™ Ultra processors.

16 Based on internal analysis and testing, November 2024. Cyberlink's Power Director AI video editing features running on devices with Intel® Core™ Ultra 200V series processors with NPU hardware acceleration enabled compared to Intel® Core™ Ultra 200V series processors without NPU hardware acceleration enabled. Results may vary.

17 As measured by an AI video editing workload using Adobe Premier Pro Beta. Based on Intel testing and external claims. Results may vary.