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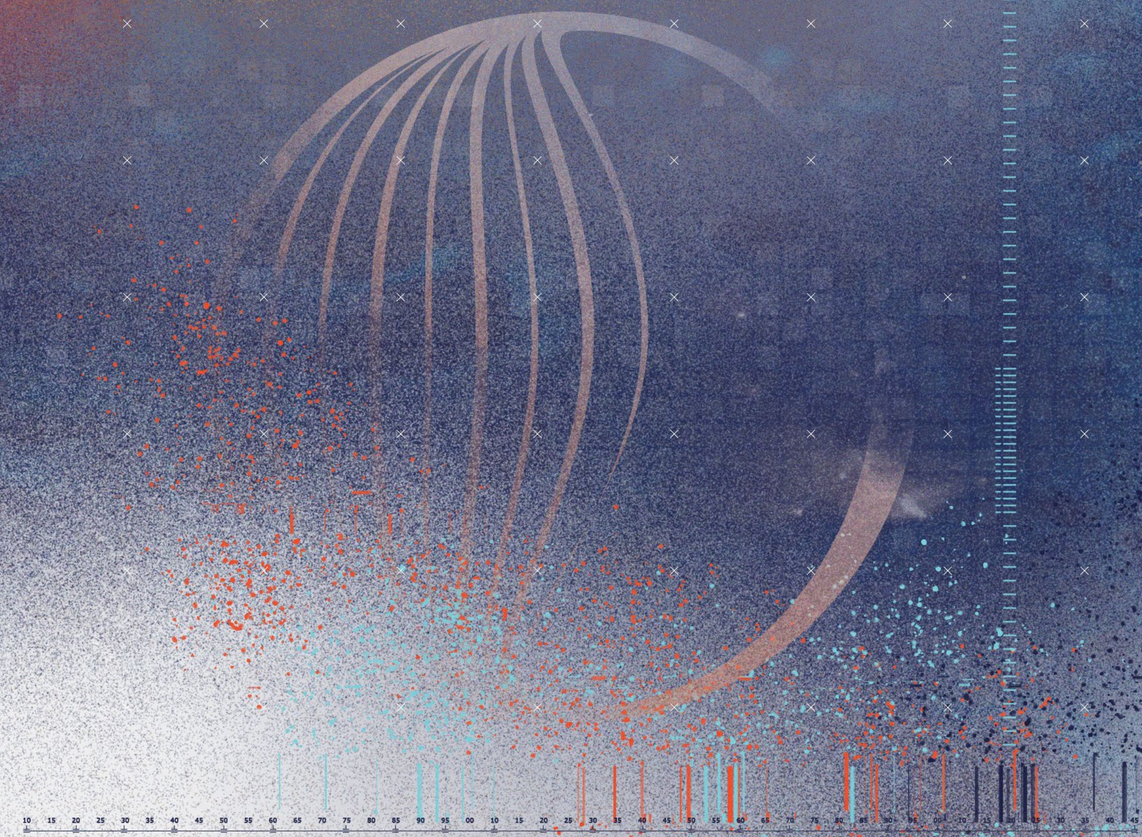
Copilot+ PCs vs. MacBook Air in the AI Era

A New Chapter in Personal Computing

Ryan Shrout



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Introduction

Nearly a year has passed since Microsoft introduced the first Copilot+ PCs and the Surface devices powered by Snapdragon X Elite processors. That launch represented more than a hardware upgrade. It marked the beginning of Microsoft's broader vision for personal computing, focused on Copilot+ PCs and the transformative potential of on-device AI.

Microsoft's direction and the seamless connection between Windows PCs (like Surface) and Windows 11 make the company's goal clear; it aims to build PCs that are fast and efficient, and also intelligent. These devices are designed to support AI-enhanced workflows locally and in the cloud, utilizing the best of available technology and resources from Microsoft.

Since that launch, the Copilot+ PC ecosystem has steadily grown. Devices from Microsoft and its OEM partners are now delivering great laptop experiences while also preparing users for a new era of AI capability. They are thin, powerful, and efficient, and they are showing us the early stages of what AI PCs can become in day-to-day use.

We covered the broader Copilot+ PC landscape in earlier work, examining silicon offerings from Qualcomm, AMD, and Intel. For those looking to dive deeper, we've published a series of papers that explore the rise of Copilot+ PCs and what they mean for the future of computing. We also sat down with Microsoft CVP of Windows and Devices, Pavan Davuluri for a discussion about how he sees the future of AI on the PC playing out. But the future of AI PCs is here, today, with Copilot+ PCs.

Apple recently refreshed its MacBook Air lineup with the new M4 chip and promised innovative AI implementations with Apple Intelligence. While this update brings performance and efficiency improvements, it raises an important question. As the industry shifts toward AI-enabled computing, does Apple's latest move significantly change the landscape, or is Microsoft's Copilot+ PC vision better suited to meet the future? In this report Signal65 will compare both Microsoft's leading hardware of the Copilot+ PC segment, the Surface Laptop, launched in May 2024, against the new M4-powered Apple MacBook Air. We will also analyze our experiences and the technical differences between what Copilot+ PC features offer consumers over Apple Intelligence.

As we'll show below, the combination of Qualcomm silicon and platform engineering with Microsoft Surface design expertise results in a device that remains highly competitive, even against the newer MacBook Air with Apple's M4 chip. In fact, the Surface Laptop demonstrates leadership in areas that matter to both everyday users and performance-focused enthusiasts. In our testing, the Surface Laptop with Snapdragon X Elite outperforms the MacBook Air M4 in multi-threaded and heavy multitasking workloads, sustaining that performance over time. It also delivers more than an hour of additional battery life thanks to its power-efficient architecture.

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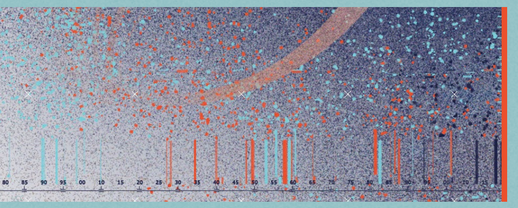
Comparison Overview



Surface Laptop (7th Edition) vs. MacBook Air (M4)

The Surface Laptop continues to stand out as the best-in-class premium Windows laptop. While there are many unique and excellent Copilot+ PCs on the market from various OEMs, Surface remains the reference point for Microsoft's vision.

For this analysis, we're looking at the 15-inch Surface Laptop powered by the Qualcomm Snapdragon X Elite 80-100 processor, with 32GB of memory and a 1TB SSD, positioned directly against Apple's new 15-inch MacBook Air with the M4 chip and the same memory and storage configuration. The MacBook Air often receives a lot of attention, and in some areas that is deserved, but it's worth looking more closely at how these two devices stack up in real-world use, now nearly a full year after the launch of the Surface.

Comparison Overview

Display and Touchscreen

The Surface Laptop includes a 120Hz PixelSense Flow display, which provides smoother animations and a much better overall screen compared to the MacBook Air's 60Hz panel. That difference is immediately noticeable when scrolling, navigating UI elements, or using modern AI-powered interfaces that benefit from fluid motion.

Surface Laptop also includes touchscreen support, which remains unavailable on any MacBook. While not every user relies on touch daily, its presence opens additional interaction models, particularly for creators, students, and professionals who blend traditional input with touch gestures.

Windows Hello with facial recognition is another feature worth highlighting. It's fast, secure, and deeply integrated into the Windows experience. Apple has yet to bring Face ID to the Mac, meaning Surface offers an edge in login speed and ease of use.

Connectivity

Connectivity is another area where the 15" Surface Laptop stands out. It offers two USB4 ports, a USB-A port, a headphone/mic jack, a microSDXC card reader, and the Surface Connect port. In contrast, the MacBook Air includes only two Thunderbolt 4 ports and a headphone jack, along with MagSafe for charging.

The presence of USB-A and microSDXC on Surface may seem like small things on paper, but they eliminate the need for adapters in many common workflows, particularly in professional and education settings. These ports represent practical flexibility, something that becomes more valuable the longer you use the device.

Design and Quality

There's no denying that the MacBook Air is a well-built machine that is thin, light, and performant. That said, the Surface Laptop feels just as premium, with excellent material quality, precise construction, a smooth glass trackpad with haptics, and a comfortable, quiet keyboard. For those who value a balanced mix of power, interaction, and usability, in industry leading industrial design, Surface makes a strong case.

Pricing and Value

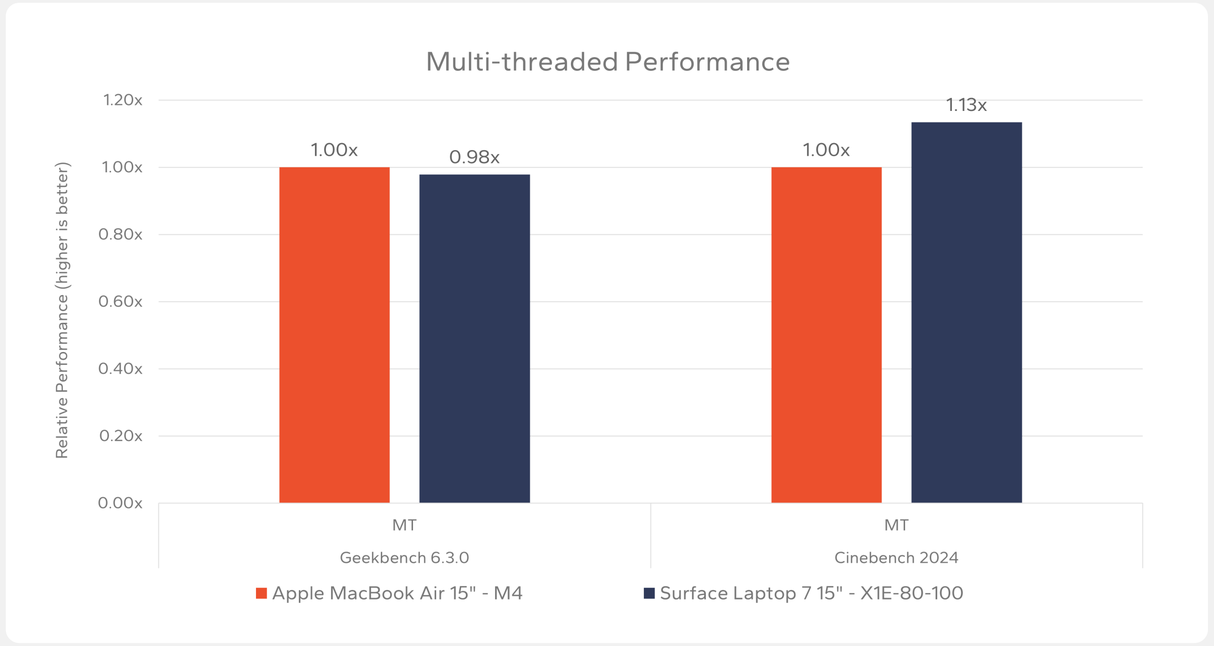
At the time of this analysis, the 15" MacBook Air with 32GB of memory and 1TB of storage is priced at $1,999 in Apple.com. The 15" Surface Laptop with the same configuration has an MSRP of $2,099 but has consistently been available with significant promotional pricing through online and retail sales.

Performance and Efficiency

The Surface Laptop with the Snapdragon X Elite was announced nearly a year ago, following Qualcomm's October 2023 launch of the platform at its annual Snapdragon Summit. Despite the time that has passed, this combination continues to stand out both within the Windows ecosystem and when measured against Apple's newly refreshed M4-based MacBook Air.

Surface Laptop with Snapdragon X Elite is up to 13% faster in multi-threaded workloads than the M4-based MacBook Air.

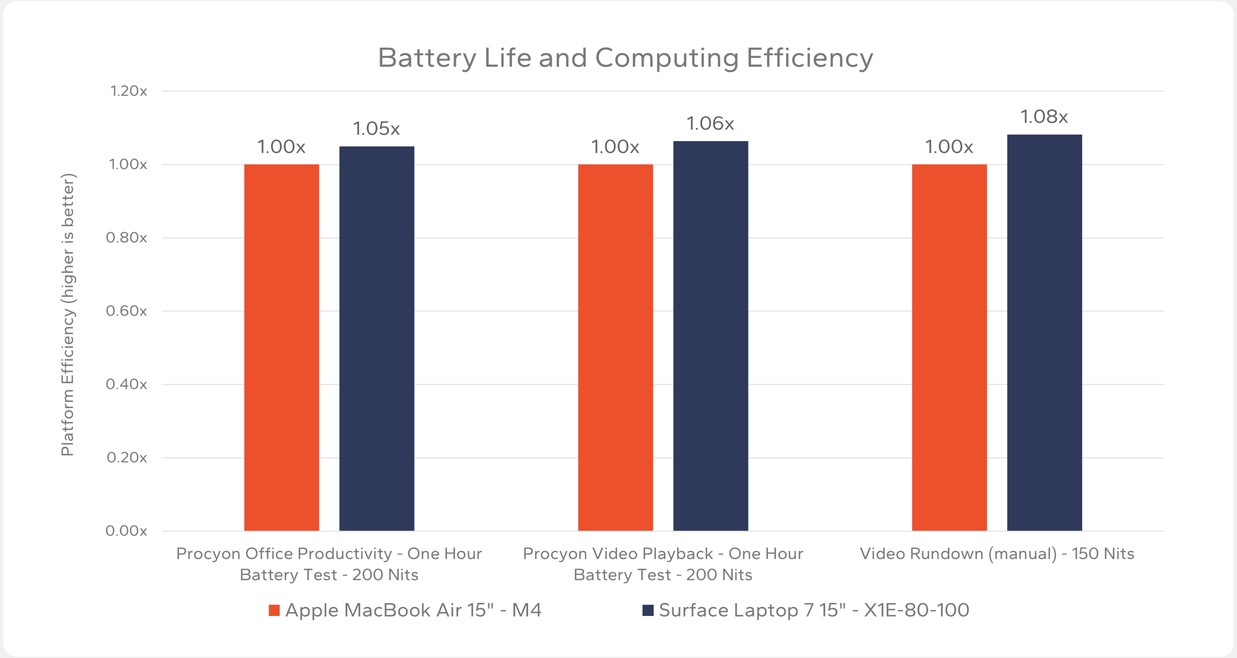
There's no denying that Apple's silicon is excellent. The M4 is no exception; it delivers strong performance and impressive energy efficiency. But the X Elite 80-100 CPU inside the 15" Surface Laptop holds its own, especially in heavier, multi-threaded workloads where it demonstrates a clear advantage, even almost a year after its release. Typical multi-tasking scenarios that could include Microsoft Teams calls, presentation creation, light media creation, and just having lots of tabs and apps open in the background, are the kinds of situations that will see the benefit of this kind of performance.



As shown in our testing, the Geekbench 6.3.0 multi-threaded results are essentially even and in these bursty, thread-rich scenarios, the X Elite performs on par with the Apple M4. However, in Cinebench 2024, which stresses the CPU over longer durations, the Surface Laptop comes out ahead by 13%. This reinforces the view that for sustained, compute-heavy workloads, the Surface and the Snapdragon X Elite provides meaningful performance headroom.

Performance and Efficiency

Performance alone isn't the full story, though. What may surprise is that the 15" Surface Laptop also outperforms the MacBook Air in our battery life and platform efficiency testing.



The Surface Laptop offers more than a full hour of additional runtime than the MacBook Air.

Both devices include virtually identical battery capacities: 66 Whr on the Surface Laptop and 66.5 Whr on the MacBook Air. In our Procyon-based battery benchmarks, the Surface used less energy to complete equivalent tasks. In Procyon Office productivity, the Surface Laptop consumed 8% of its battery versus nearly 8.5% on the MacBook Air, on average, after multiple test runs. In Procyon Video Playback, it used 6% compared to more than 6.33% on the Mac. That translates into a 5% to 6% efficiency advantage in favor of the Surface.

In a longer custom, Signal65-built video rundown test, an offline video playback scenario run at 150 nits, the Surface Laptop delivered 1,186 minutes of battery life, or just under 20 hours. The MacBook Air delivered 1,105 minutes, or 18.4 hours. This gives the Surface Laptop an 8% advantage, equivalent to more than a full hour of additional runtime.

While both machines perform well in terms of battery life, this extra hour can be a major factor for users who travel frequently, work away from outlets, or run long processing tasks without interruption. It speaks to how well the X Elite platform balances power and efficiency, even a year into its lifecycle.

Thoughts on Performance and Efficiency

Surface Laptop offers a better combination of traits than Apple can provide.

The Surface Laptop (7th Edition) Continues to Shine

The combination of silicon and platform engineering, and the design expertise of the Surface team, means that even though the latest MacBook Air with the Apple M4 chip was released nearly a full year later, the Surface Laptop continues to not just offer relevant competitive positioning, but leadership qualities in some key areas that are important to consumers and discerning enthusiasts. Multi-threaded performance and heavy multi-tasking performance is an area of strength for the Snapdragon X Elite chip from Qualcomm, maintaining a lead in sustained performance against the Apple M4 in our testing. And the power efficiency of the X Elite also means that the Surface Laptop offers more than one hour of additional battery life.

Couple that silicon design leadership with physical design benefits like the touchscreen display, improved connectivity with more ports, a high refresh display, and promotional pricing that often makes it significantly less expensive than the MacBook Air 15" in comparable configurations and it's clear that the Surface Laptop offers a better combination of traits than Apple can provide.

Microsoft Copilot+ vs. Apple Intelligence

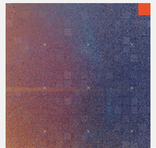
Microsoft's Dual Approach to AI: Local and Cloud Integration

Microsoft has developed a comprehensive AI ecosystem by combining local and cloud-based solutions through Copilot and Copilot+ PC experiences on devices like the Surface Laptop (7th Edition) and from other OEMs. Copilot+ PC represents laptops with Neural Processing Units (NPUs) exceeding 40 TOPS, enabling AI functions to run locally with benefits in performance, latency, efficiency, and security. Microsoft's AI PC strategy includes small language models that deliver powerful AI capabilities with low power use.

Many third-party applications are also adopting NPU-based acceleration. DaVinci Resolve, Luminar Neo, Topaz Labs tools, and others are leveraging dedicated AI compute on consumer PCs.

Cloud-based Copilot features in Windows and Office complement these local capabilities, creating a unified experience. The table to the right highlights key differences Signal65 observed when testing AI implementations on Windows Copilot+ PCs and the MacBook Air with macOS 15.1 or later.

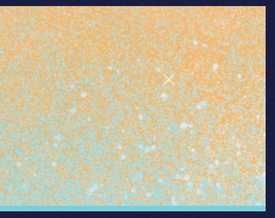
	Windows Support		MacOS Support		
AI Capability and Function	**Application/Feature Name**	**Runs Local?**	**Application/ Feature Name**	**Runs Local?**	**Notes**
Visual timeline and personal graph	Recall	Y	N/A	N/A	Very unique capabilities and powerful tool for power users
Enhanced search through files with context	Improved Windows Search	Y	Siri	Y	Windows search now exceeding capabilities of MacOS
Actions specified by on-screen context	Click to Do	Y	Siri + ChatGPT (limited)	N	Windows integration shows clear readiness, Siri lacking consistency
Text rewriting	AI Rewrite	Y	OS-wide rewrite	N	MacOS system-wide feature is great, but results not as high quality as Windows. Click-to-Do rewrite is locally computed.
Web browser based AI integration	Microsoft Edge + Copilot	N	Safari	N	Copilot view on Microsoft Edge browser enables unique functionality, Safari limited visualization
Email summarization	Outlook mail and thread summaries	N	Mail app	Y	Mail app suffers from some hallucinations
Image generation, with prompting	Image Creator, Cocreator	Y	Image Playground	Y	Windows image gen is spread across too many apps, but more powerful and higher quality
Camera effects	Windows Studio Effects	Y	Center Stage	Y	Windows Studio Effects more options and more thorough, doesn't work on external cameras



Microsoft Copilot+ vs. Apple Intelligence

Standout AI Features of Copilot+ PCs

Microsoft introduced several innovative features that have garnered attention for their utility and forward-thinking design as a part of the Copilot+ PC initiative. While the market has rightfully questioned in some cases the true benefits of AI for the consumer, the flagship features that Microsoft has been rolling out to Copilot+ PC designs are differentiated enough to create a true “wow” moment for first time users, in part at least because of their ability to run locally, on device, using efficient AI accelerators. Some of these features’ availability may vary by market.

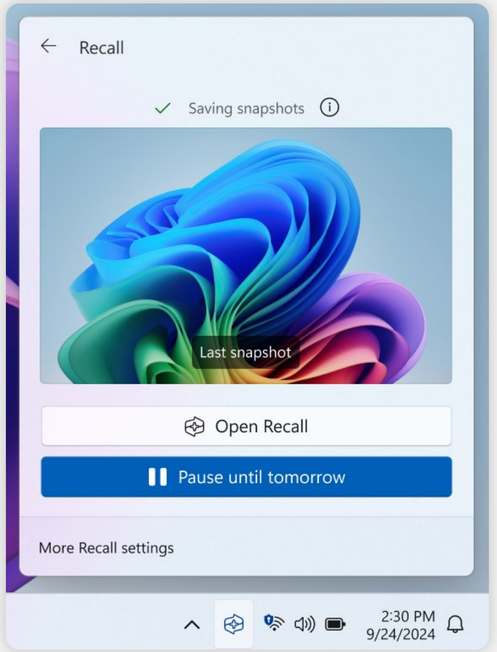


Copilot+PC

Recall (preview)*

This feature enhances the ability of users to quickly access previously seen information, including documents, emails, messages, and web content. Recall continuously saves snapshots and indexes content directly on the device, enabling instant retrieval without reliance on cloud-based services. This improves performance AND security of the feature dramatically. Recall allows users to efficiently search, find, and reengage with relevant historical data simply by posing intuitive, conversational queries.

I’ve been using a laptop with Recall enabled on it for several months and though it can take a while to remember that you have the power to search and find things in a totally different way than you could previously on any computing device, once integrated into my workflow it becomes an important part of my day to day. Even in doing research for this paper I knew that I had seen a table of Copilot+ PC features and capabilities, but not if it was shared content in a meeting, a website, or an email. But using the Recall app, I simply searched for “copilot feature table” and it was the third result that came on screen, showing me the table that I had actually opened in a PDF document several days ago. I was able to reference the information I needed there without having to scour my PC. This kind of reimagined searching capability has the potential to shift and improve our daily interactions with the PC. Recall is a feature that potentially saves hours of time for users that simply want to find things they’ve previously viewed on their machine.



Since its unveiling back with the original Copilot+ PC launch, Recall has gone through a significant upgrade around security and user controls. Microsoft has been committed to ensuring that using this feature is as safe as possible, knowing that some users might find the way the AI models capture data to be potentially problematic. Enabling the ability to disable snapshots for certain apps and requiring secure Windows Hello login credentials for the encrypted data makes sure your data stays on your PC.

As of today, Apple Intelligence has no equivalent to this capability from Microsoft, with no option to build a visual timeline or personal context graph around the day-to-day activities on the MacBook Air.

**Optimized for select languages [English, Chinese (Simplified), French, German, Japanese, and Spanish]. Content-based and storage limitations apply. Requires Windows Hello Enhanced Sign-in Security.*

Microsoft Copilot+ vs. Apple Intelligence

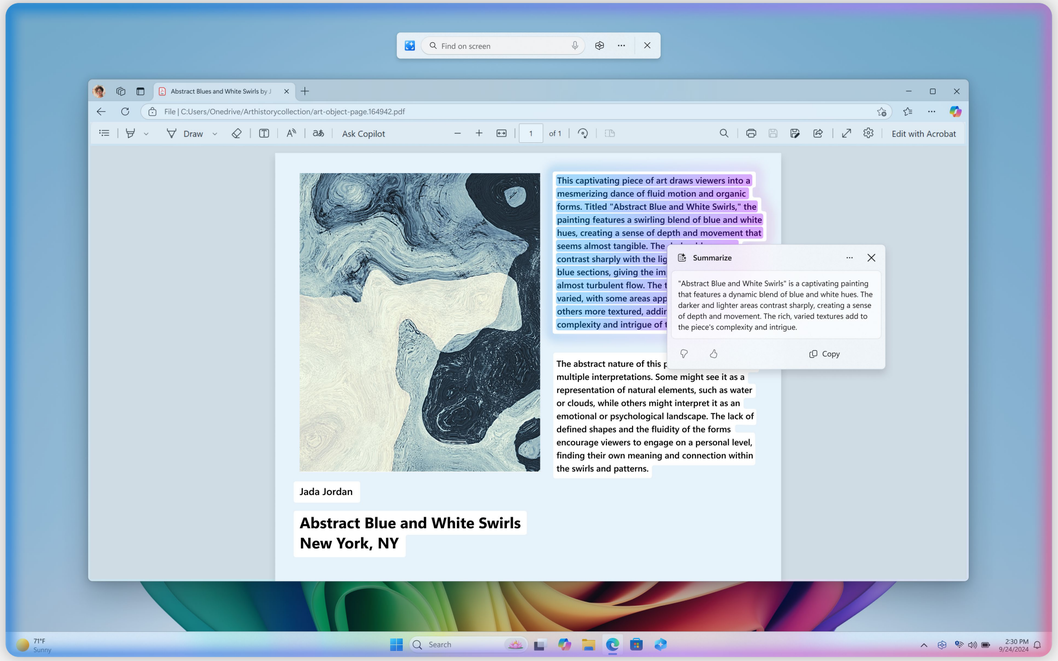
Standout AI Features of Copilot+ PCs

Copilot+PC

Click to Do (preview)*

Copilot+ PCs include the powerful “Click to Do” feature, designed to streamline task management by turning content into actionable items with a simple click. Click to Do intelligently recognizes text or images on your screen within any content or window, including emails or web pages, and offers you a set of contextual actions instantly. For example, you can take a set of text that has been identified and have it rewritten for you, summarized, or created as a bulleted list. For images you can select actions that allow you to open advanced AI powered editing tools in Photos or Paint. This seamless integration significantly reduces friction between content consumption and productivity.

This feature has lots of areas where it already works great – being able to do a web search from any image or block of text on the screen, easily summarize a section of a document regardless of its individual AI integration and capabilities, or even to create a simple bulleted list, notes-like version of a passage of text. I can also see how this feature will grow and expand, enabling more specific functions as the Microsoft team continues to observe how consumers are using this and other Copilot+ PC capabilities.



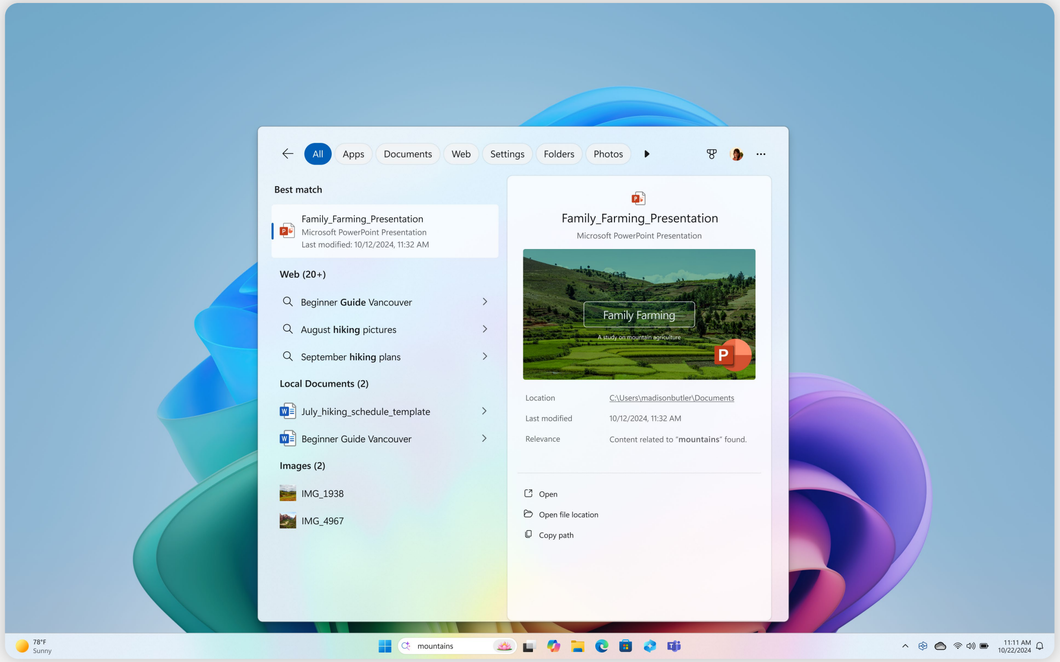
As of today, Apple doesn’t have an equivalent feature. Their integration of ChatGPT into Siri is a step toward making its voice assistant more capable, but it still lacks the direct, actionable integration that Microsoft has delivered with Click to Do. Siri can now hand off queries to ChatGPT when needed, but that process often requires user permission, introduces latency, and doesn’t consistently offer follow-through on tasks within the operating system. Microsoft Click to Do turns visual data into immediate productivity, something Siri still can’t do, even with help from ChatGPT. Where Microsoft is embedding intelligence into the flow of the OS, Apple’s approach still feels like a handoff rather than an integrated experience.

**Text actions available across markets in select character sets*

Improved Windows Search*

Another major enhancement within Copilot+ PCs is Improved Windows search, which transforms the user's ability to find relevant information quickly and intuitively, addressing one of the long-running gripes of the Windows OS. Leveraging semantic AI indexing, Improved Windows search understands the user's intent and context, providing accurate and relevant results beyond traditional keyword searches. For example, users can search with queries such as "dog on a beach" to immediately locate all relevant images or documents with that very critical subject matter! This enhanced capability greatly reduces time spent searching through complex file structures or scrolling through your pictures folder, improving productivity and enabling users to focus more effectively on their primary tasks.

This is a big win for Copilot+ PCs in my experience. Having a search function on your laptop that works more like the web searches we are used to interacting with regularly, just makes everyday use cases faster. Not only can a search for "surface laptop" find files and images with that in the name, but looking INSIDE the images, PDFs, and other files for those words and the context itself can expose and find documents otherwise hidden in the depths of your SSD or OneDrive!

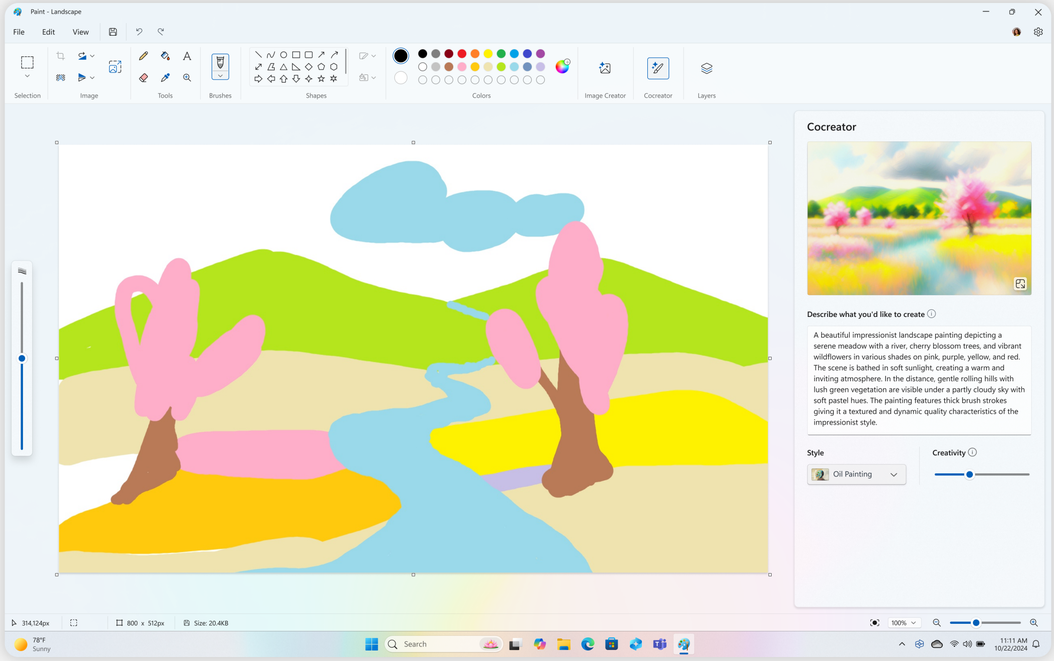


**Improved Windows Search works with specific text, image, and document formats only; optimized for select languages [English, Chinese (Simplified), French, German, Japanese, and Spanish]*

Cocreator in Microsoft Paint*

Cocreator in Microsoft Paint is an AI-powered feature that helps users generate images by combining text prompts with sketches. You describe what you want to create, such as “a robot in a forest with some cats,” and provide a sketch on the canvas. Cocreator uses AI to generate detailed image variations based on your input. The more you draw, the more refined the results become. You can then select and edit these images further. Cocreator also includes content filters and marks AI-generated images with digital credentials for transparency.

While this feature is more about fun and creativity than getting real work done, it is a great showcase of what is possible with AI across a range of different computing landscapes. I have been able to create some high-quality images in different art styles to help my son with schoolwork, and my daughter loves the way it allows her play and interact with her laptop in a completely new and fun way.



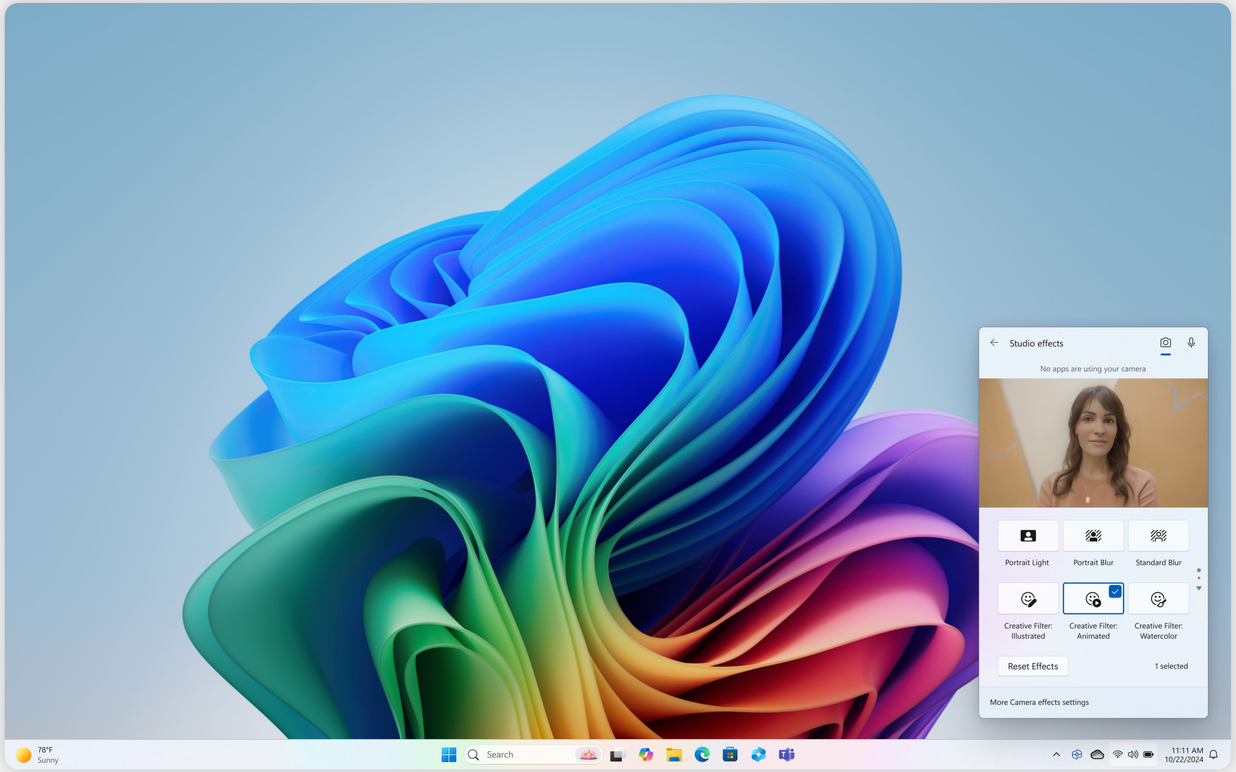
This feature, combined with generative fill and erase, restyle, and image creator, all part of the updated Photos app, combines for a robust set of options for image generation on a Windows PC. Image Playground on Apple Intelligence is visually polished and produces high-quality results, but it’s currently limited to a small number of apps like Messages and Notes. It lacks the broader integration and accessibility of Cocreator and is more focused on fun, sticker-style generation than actual editing or iterative image creation.

**Optimized for English text prompts and requires a Microsoft account and internet connection to access cloud services that help ensure the responsible use of AI.*

Windows Studio Effects

Windows Studio Effects continues to be a strong example of how Microsoft is using AI to enhance everyday experiences on Copilot+ PCs. Features like automatic eye contact, background blur, voice focus, and framing are powered by the device's NPU, offering real-time enhancements that improve video calls without taxing CPU or GPU resources. These tools are built directly into the Windows experience, available across apps, and require no additional setup—making them a practical, seamless upgrade for hybrid work, remote collaboration, and content creation.

When working on my laptop away from my desk, extra monitors and external camera, the Studio Effects features are a great addition to my workflow, and make sure that I can continue to present myself in the best light (no pun intended) to my customers and partners. I use a lot of different apps for conference calls on a daily basis, and having a single interface and consistent look and style is a great way to unify it all.



Microsoft Copilot+ vs. Apple Intelligence

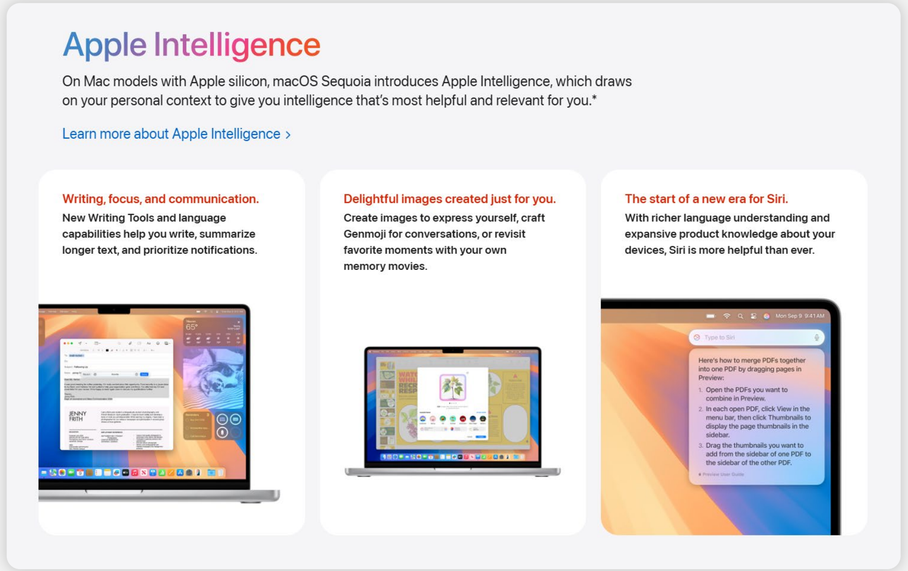
The Approach with Apple Intelligence

In contrast, Apple's AI strategy centers around Apple Intelligence, which emphasizes integration within its ecosystem. While Apple Intelligence introduces features like enhanced writing tools, image generation through Image Playground, and a revamped Siri with improved natural language processing, it currently lacks key functions and a general sense of uniformity present in Copilot+ PCs.

As of today, Apple Intelligence does not offer context awareness or screen recognition capabilities, which are integral to features like Recall and Click to Do in Copilot+ PCs that build and utilize a personal graph.

And while Apple Intelligence does introduce a number of new capabilities, my early experiences with the platform have revealed rough edges. The text summarization feature, for example, has been inconsistent, occasionally generating inaccurate or overly vague summaries that miss key context. Notification summaries, intended to streamline daily information, have sometimes produced incoherent or misleading results, sometimes creating comical output, sometimes potentially dangerous if taken literally! Siri, despite promised improvements, continues to fall short in handling complex or contextual requests, and still lacks the kind of actionable, screen-aware functionality that defines Microsoft's Copilot+ PC experiences. And this is despite having one of the most closed and data-centric development communities in the market. These missteps, and the potential delay of more advanced or improved features to 2026, suggest that while Apple has laid a foundation for AI on its devices, the practical impact of Apple Intelligence remains limited in day-to-day use.

Apple could one day have a solid AI integration across its computers and smartphones, however, the company has yet to fully leverage its potential in utilizing contextual data for AI functionalities, leaving opportunities for Microsoft to address these areas more effectively.



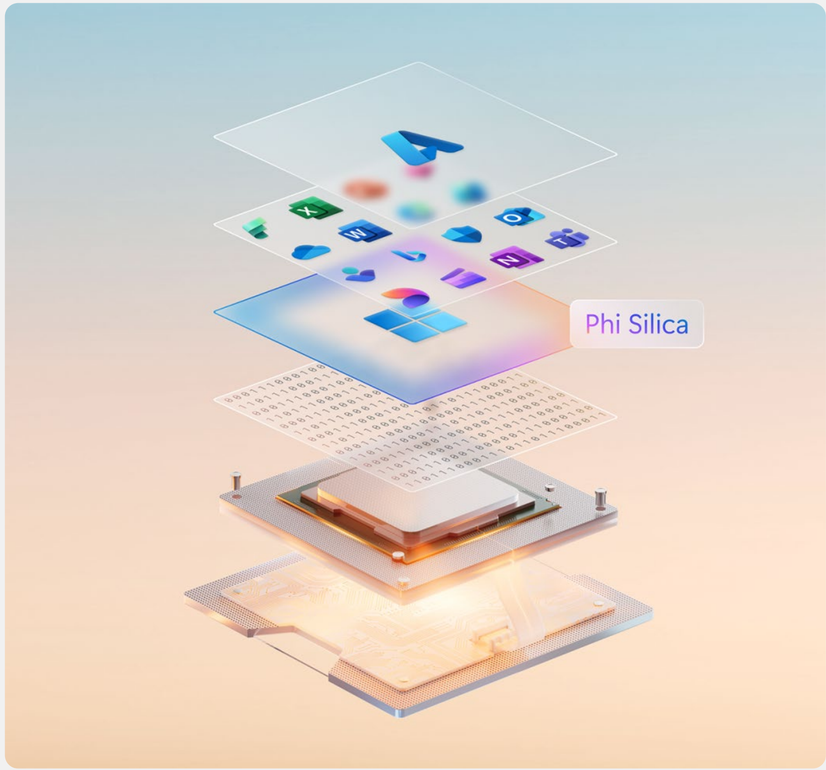
Source: Apple.com

A Focus on Developers

Another key differentiator for the Copilot+ PC platform lies in how Microsoft is enabling third-party developers to build and run AI locally. With the introduction of Phi Silica, a compact and capable small language model (SLM), Microsoft has provided an open library of APIs that allows developers to build AI-powered features directly into their own applications. Recent support for running distilled DeepSeek R1 models locally further expands this capability. What's more, developers can use the same WinAppSDK that Microsoft itself uses for first-party apps, giving them direct access to the tools needed to harness the power of the Windows Copilot Runtime. This approach empowers a broad ecosystem of AI experiences, all running locally, optimized for performance and privacy.

While Apple Intelligence introduces its own AI engine, much of its functionality remains tethered to cloud-based execution. Despite Apple's reputation for building vertically integrated systems, the full potential of its on-device AI hardware is just not there. Developers have limited access to the same capabilities that Apple uses internally, and core features like Siri upgrades and generative tools are rolling out slowly. In the meantime, Copilot+ PCs are shipping today with higher neural processing throughput, more than 40 TOPS of NPU performance, and an open platform that is already being used to deliver real, local AI functionality. The result is a more flexible and accessible AI environment that supports innovation across the Windows ecosystem.

Microsoft is empowering a broad ecosystem of AI experiences, running locally, optimized for performance and privacy.



Conclusion

As we move into 2025, nearly a full year after the debut of the first Copilot+ PCs, the platform not only persists, it thrives. Microsoft's early investment in on-device AI and steady delivery of new AI features, powered by the Snapdragon X Elite and seamlessly connected to the Surface Laptop we looked at here today, continues to pay dividends.

The 15" Surface Laptop (7th Edition) remains highly competitive against Apple's latest 15" MacBook Air with the M4 chip, particularly in heavier multi-threaded workloads and multitasking environments. Whether measured by responsiveness under load or the ability to sustain performance over time, the Surface Laptop (7th Edition) holds its ground.

Beyond raw performance, the Surface Laptop also delivers a complete package. It offers a high-refresh-rate display with touch support, broader port options including USB-A and microSDXC, and build quality that matches or exceeds Apple's standards. These advantages matter day to day, particularly for users who need flexibility, speed, and comfort.

And though it may not seem immediately obvious, our testing highlights that the Snapdragon X Elite and the Surface Laptop provide better power efficiency and longer battery life than the MacBook Air, at a lower selling price with promotional discounts.

But the advantages of Surface and other Copilot+ PCs leveraging the Snapdragon X Elite go beyond performance and battery, to include the advanced AI experiences we've detailed above. Microsoft has taken meaningful steps by combining local NPU acceleration with cloud-based Copilot capabilities to offer practical, user-focused AI features that are already shipping. Apple's vision for Apple Intelligence may evolve in time, but today, it remains limited in scope on the Mac, particularly in areas like personal context, screen awareness, and actionable suggestions.

Looking ahead, we're excited about what's coming next, from continued evolution of Windows Copilot+ PC AI features to the next generation of Surface devices. If the past year is any indication, the trajectory for Microsoft's AI-powered PC ecosystem is strong, and it's becoming clearer with each release that this is more than just a hardware cycle. It's a platform shift.

Microsoft's AI features and strategy are clearly steps ahead of what Apple Intelligence is offering on the Mac. This distinction sets the tone for the future of AI PCs and should not be overlooked by anyone considering their next device.

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Signal65 exists to be a source of data in a world where technology markets and product landscapes create complex and distorted views of product truth. We strive to provide honest and comprehensive feedback and analysis for our clients in order for them to better understand their own competitive positioning and create optimal opportunities to market and message their devices and services.

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System Configurations & Applications

	MICROSOFT SURFACE LAPTOP 7	APPLE MACBOOK AIR 15”
CPU	Qualcomm Snapdragon X Elite X1E-80-100	Apple M4
Graphics	Qualcomm Adreno X-4	Apple Graphics
RAM	32GB LPDDR5X-8448	32GB LPDDR5X-7500
Storage	1TB Western Digital SN750	1TB Apple SSD
Display	15” 2496x1664	15” 2880x1864
System BIOS	169.105.235	N/A
Operating System	Windows 11 Home 26100.3476	MacOS Sequoia 15.3.1
Windows Power Mode (Performance Testing)	Best Performance	N/A
Windows Power Mode (Battery Life Testing)	Recommended	N/A
Virtualization Based Security	Enabled	N/A

Applications Used

Geekbench 6.4.0

Cinebench 2024.0.1

UL Procyon 2.10.1663

Microsoft Office 2503

Google Chrome 134.0.6998.88


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