

HP workstations with AMD Ryzen AI Max PRO processors outperformed comparable Apple systems in benchmark testing

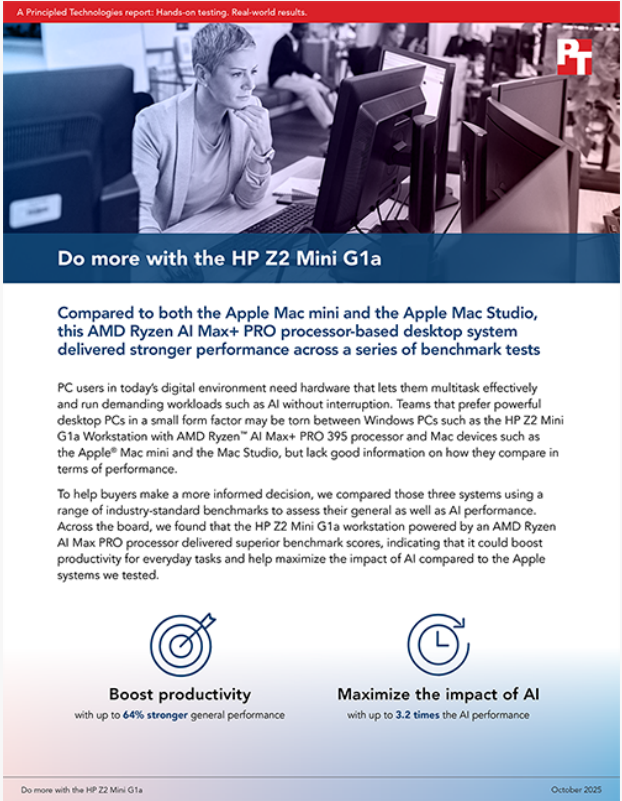
The HP Z2 Mini G1a beat the Apple Mac mini and Mac Studio and the HP ZBook Ultra G1a beat the 14" MacBook Pro, according to reports from Principled Technologies

PALO ALTO, CA, UNITED STATES,
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-- For modern professionals working with graphics and AI, workstations that can keep up with demanding workloads are a must. Two new hands on benchmarking reports from Principled Technologies, commissioned by HP, demonstrate the performance advantages of HP desktop and mobile workstations with AMD Ryzen AI Max PRO processors over comparable Apple systems.

The desktop workstation report, "Do more with the HP Z2 Mini G1a," compares the HP Z2 Mini G1a workstation—powered by the AMD Ryzen AI Max+ PRO 395—to the Apple Mac mini and Apple Mac Studio. It states, "Across the board, we found that the HP Z2 Mini G1a workstation powered by an AMD Ryzen AI Max PRO processor delivered superior benchmark scores, indicating that it could boost productivity for everyday tasks and help maximize the impact of AI compared to the Apple systems we tested."

Specific advantages revealed in testing include the following:



Do more with the HP Z2 Mini G1a

Compared to both the Apple Mac mini and the Apple Mac Studio, this AMD Ryzen AI Max+ PRO processor-based desktop system delivered stronger performance across a series of benchmark tests

PC users in today's digital environment need hardware that lets them multitask effectively and run demanding workloads such as AI without interruption. Teams that prefer powerful desktop PCs in a small form factor may be torn between Windows PCs such as the HP Z2 Mini G1a Workstation with AMD Ryzen™ AI Max+ PRO 395 processor and Mac devices such as the Apple® Mac mini and the Mac Studio, but lack good information on how they compare in terms of performance.

To help buyers make a more informed decision, we compared those three systems using a range of industry-standard benchmarks to assess their general as well as AI performance. Across the board, we found that the HP Z2 Mini G1a workstation powered by an AMD Ryzen AI Max PRO processor delivered superior benchmark scores, indicating that it could boost productivity for everyday tasks and help maximize the impact of AI compared to the Apple systems we tested.

Boost productivity
with up to **64% stronger** general performance

Maximize the impact of AI
with up to **3.2 times** the AI performance

Do more with the HP Z2 Mini G1a

October 2025

- Up to 64% better CPU multi core performance
- Up to 3.2x the AI performance
- Up to 47% better rendering performance

The mobile workstation report, “Achieve more with the HP ZBook Ultra G1a,” compares two configurations of the 14 inch HP ZBook Ultra G1a Next Gen AI Mobile Workstation PC—powered by AMD Ryzen AI Max PRO processors—to a 14 inch Apple MacBook Pro with the Apple M4 Pro processor. According to the report, “The HP ZBook Ultra G1a with AMD Ryzen AI Max PRO processor demonstrated clear advantages over the Apple MacBook Pro in our testing, offering stronger performance across productivity, graphics, AI, and creative workloads.”

Specific advantages revealed in testing include the following:

- Up to 67% higher general processor performance
- Up to 60% better graphics performance
- Up to 26x stronger AI inference performance

To learn more about the ways that the HP Z2 Mini G1a and the HP ZBook Ultra G1a can meet the requirements of demanding workloads, read the desktop workstation report at <https://facts.pt/K54jasw> or the mobile workstation report at <https://facts.pt/15Y7MvY>.

About Principled Technologies, Inc.

Principled Technologies, Inc. is the leading provider of technology marketing and learning & development services.

Principled Technologies, Inc. is located in Durham, North Carolina, USA. For more information, please visit www.principledtechnologies.com.

Sharon Horton

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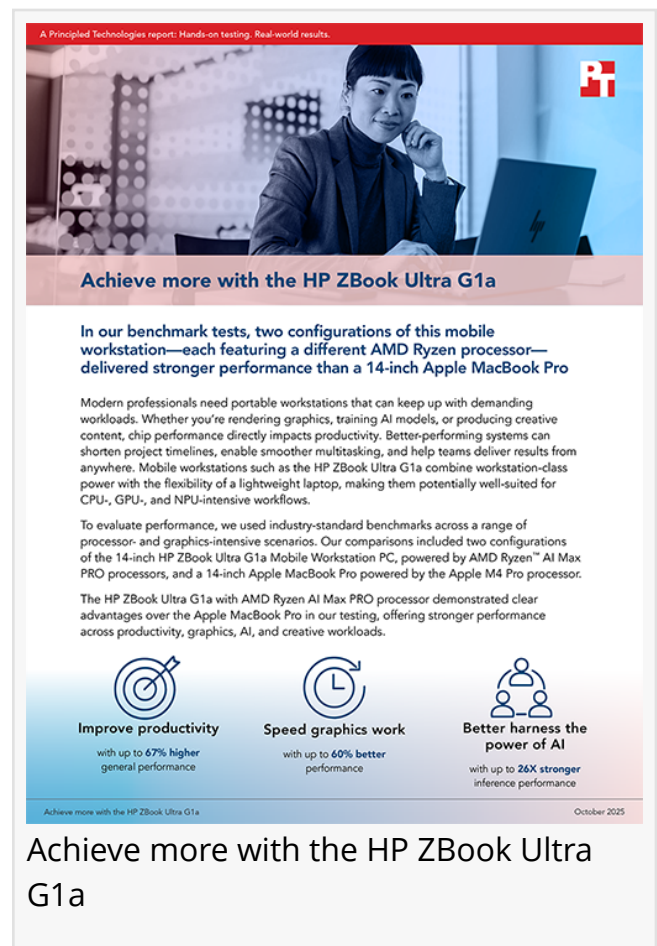
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A Principled Technologies report: Hands-on testing. Real-world results.

Achieve more with the HP ZBook Ultra G1a

In our benchmark tests, two configurations of this mobile workstation—each featuring a different AMD Ryzen processor—delivered stronger performance than a 14-inch Apple MacBook Pro

Modern professionals need portable workstations that can keep up with demanding workloads. Whether you're rendering graphics, training AI models, or producing creative content, chip performance directly impacts productivity. Better-performing systems can shorten project timelines, enable smoother multitasking, and help teams deliver results from anywhere. Mobile workstations such as the HP ZBook Ultra G1a combine workstation-class power with the flexibility of a lightweight laptop, making them potentially well-suited for CPU-, GPU-, and NPU-intensive workflows.

To evaluate performance, we used industry-standard benchmarks across a range of processor- and graphics-intensive scenarios. Our comparisons included two configurations of the 14-inch HP ZBook Ultra G1a Mobile Workstation PC, powered by AMD Ryzen™ AI Max PRO processors, and a 14-inch Apple MacBook Pro powered by the Apple M4 Pro processor.

The HP ZBook Ultra G1a with AMD Ryzen AI Max PRO processor demonstrated clear advantages over the Apple MacBook Pro in our testing, offering stronger performance across productivity, graphics, AI, and creative workloads.

 Improve productivity with up to 67% higher general performance	 Speed graphics work with up to 60% better performance	 Better harness the power of AI with up to 26X stronger inference performance
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Achieve more with the HP ZBook Ultra G1a

October 2025

Achieve more with the HP ZBook Ultra G1a

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