

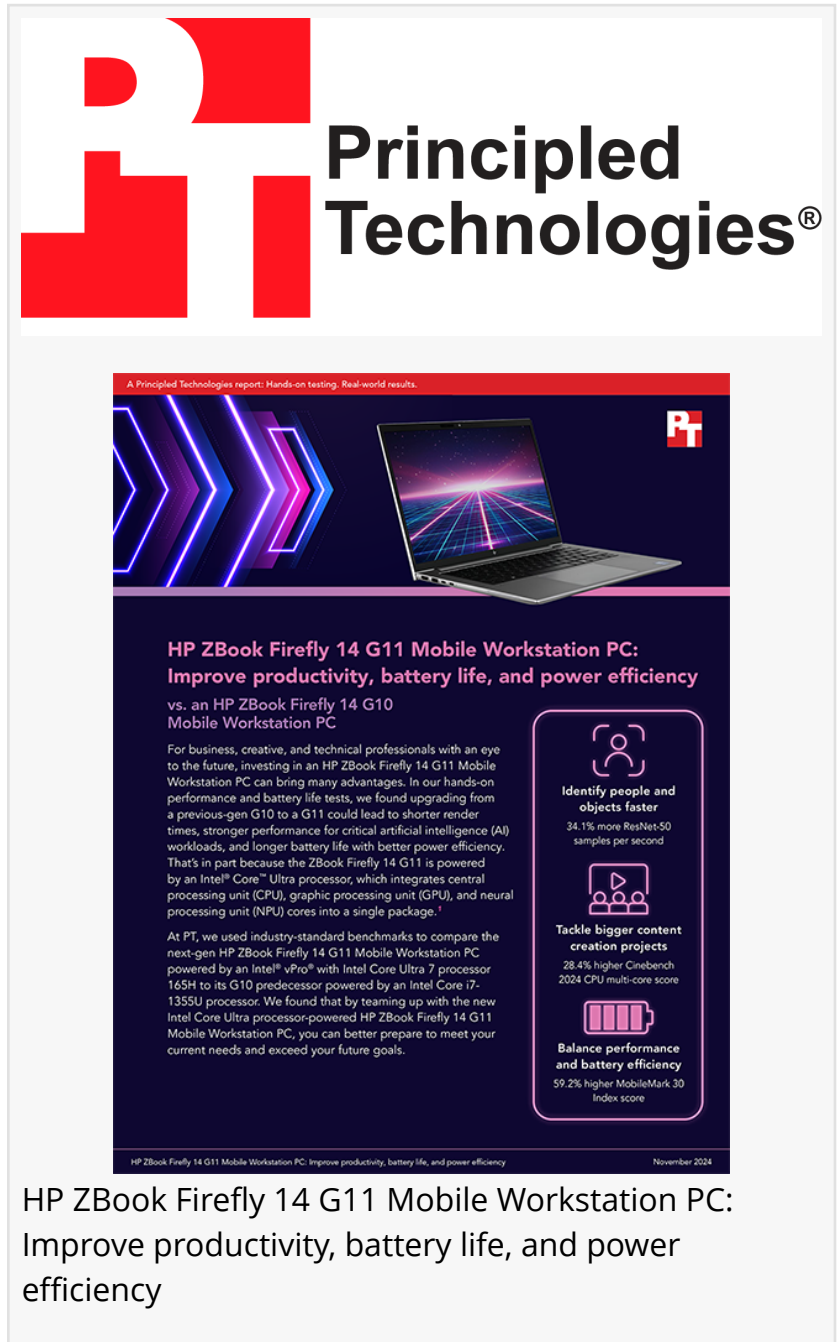
Principled Technologies quantifies potential benefits of upgrading to HP ZBook Firefly and Power G11 PCs

PT found performance gains from upgrading to new Intel Core Ultra processor-based HP ZBook G11 mobile workstation PCs from G10 options

SAN JOSE, CA, UNITED STATES,
December 23, 2024 /

EINPresswire.com/ -- Intel Core Ultra processors integrate central processing unit (CPU), graphics processing unit (GPU), and neural processing unit (NPU) cores into a single chip. But what benefits does this cutting-edge technology bring to users? To help buyers make informed choices, Principled Technologies (PT) compared system performance on current-gen HP ZBook Firefly and Power Mobile Workstation PCs to that of their G10 predecessors.

In the first study, PT compared system performance and battery life on an Intel vPro with Intel Core Ultra 7 processor 165H processor-powered 14-inch HP ZBook Firefly 14 G11 Mobile Workstation PC to that of an Intel Core i7-1355U processor-powered G10 model. The second study compared an Intel Core Ultra 7 processor 165H processor-powered 16-inch HP ZBook Power 16 G11 Mobile Workstation PC to a 15.6-inch Intel vPro with Intel Core i7-13800H processor-powered G10 model. In both studies, PT used industry-standard benchmarks and AI



Principled Technologies®

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

HP ZBook Firefly 14 G11 Mobile Workstation PC: Improve productivity, battery life, and power efficiency
vs. an HP ZBook Firefly 14 G10 Mobile Workstation PC

For business, creative, and technical professionals with an eye to the future, investing in an HP ZBook Firefly 14 G11 Mobile Workstation PC can bring many advantages. In our hands-on performance and battery life tests, we found upgrading from a previous-gen G10 to a G11 could lead to shorter render times, stronger performance for critical artificial intelligence (AI) workloads, and longer battery life with better power efficiency. That's in part because the ZBook Firefly 14 G11 is powered by an Intel® Core™ Ultra processor, which integrates central processing unit (CPU), graphic processing unit (GPU), and neural processing unit (NPU) cores into a single package.¹

At PT, we used industry-standard benchmarks to compare the next-gen HP ZBook Firefly 14 G11 Mobile Workstation PC powered by an Intel® vPro® with Intel Core Ultra 7 processor 165H to its G10 predecessor powered by an Intel Core i7-1355U processor. We found that by teaming up with the new Intel Core Ultra processor-powered HP ZBook Firefly 14 G11 Mobile Workstation PC, you can better prepare to meet your current needs and exceed your future goals.

- Identify people and objects faster**
34.1% more ResNet-50 samples per second
- Tackle bigger content creation projects**
28.4% higher Cinebench 2024 CPU multi-core score
- Balance performance and battery efficiency**
59.2% higher MobileMark 30 Index score

HP ZBook Firefly 14 G11 Mobile Workstation PC: Improve productivity, battery life, and power efficiency
November 2024

HP ZBook Firefly 14 G11 Mobile Workstation PC: Improve productivity, battery life, and power efficiency

tools.

The Firefly comparison report opens with this statement, “For business, creative, and technical professionals with an eye to the future, investing in an HP ZBook Firefly 14 G11 Mobile Workstation PC can bring many advantages. In our hands-on performance and battery life tests, we found upgrading from a previous-gen G10 to a G11 could lead to shorter render times, stronger performance for critical artificial intelligence (AI) workloads, and longer battery life with better power efficiency.”

The Power comparison report concludes with: “With the right team in your corner and the right tools at your fingertips, you can win the productivity race and cross the finish line faster. In head-to-head AI, 3D rendering, and content creation performance comparisons, an HP ZBook Power 16-inch G11 Mobile Workstation PC powered by an Intel vPro with Intel Core Ultra 7 processor 165H raced circles around its 15.6-inch predecessor. We found upgrading to the newest Intel Core Ultra processor-powered ZBook Power can help you and your team take a victory lap with image classification tasks, burn rubber while creating an image from a text prompt, and speed 3D graphics rendering tasks.”

To learn more, read the Firefly study at <https://facts.pt/qpTNMRh> and the Power study at <https://facts.pt/VxR8ez1>, or see a summary video at <https://facts.pt/lxW4IkY>

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


Principled Technologies, Inc.

press@principledtechnologies.com

Visit us on social media:

[Facebook](#)

[X](#)



HP ZBook Power 16-inch G11 Mobile Workstation PC: Accelerate growth and performance

vs. an HP ZBook Power 15.6-inch G10 Mobile Workstation PC

The HP ZBook Power 16-inch G11 mobile workstation PC is powered by an Intel® Core™ Ultra processor, which integrates central processing unit (CPU), graphic processing unit (GPU), and neural processing unit (NPU) architecture into a single chip.¹ What benefits does this cutting-edge technology bring to the table?

To find out, we used industry-standard benchmarks to compare AI, 3D rendering, and content creation workload performance on a next-gen HP ZBook Power 16-inch G11 Mobile Workstation PC powered by an Intel® vPro® with Intel Core Ultra 7 processor 165H to that of its 15.6-inch G10 predecessor powered by an Intel Core i7-13800H processor. We found the new Intel Core Ultra processor-powered HP ZBook Power 16-inch G11 Mobile Workstation PC delivers wins in every category, helping separate the champions from the also-rans.

HP ZBook Power 16-inch G11 Mobile Workstation PC: Accelerate growth and performance December 2024

Take a victory lap with image classification tasks
90.5% higher Geekbench AI GPU Quantized score

Burn rubber while creating an image
34.8% less time to generate a Stable Diffusion image from a text prompt

Render 3D projects at speed
44.7% higher 3DMark Time Spy Extreme score

[LinkedIn](#)

[YouTube](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/770858245>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.