



# HP ZBOOK POWER G11 A

ADVANCED BY THE LATEST **AMD RYZEN™ PRO 8040** HS-SERIES PROCESSORS

## POWER THROUGH PROFESSIONAL WORKFLOWS

Experience leadership performance with the HP ZBook Power G11 A, driven by AMD Ryzen™ PRO 8040 HS-Series processors. Featuring up to 8 “Zen 4” cores, this workstation excels in high-performance computing and seamless 3D modeling with AMD RDNA™ 3 integrated graphics and Radeon™ PRO graphics driver. Engineered for professionals, this durable yet premium device boosts productivity with pro-grade components for CAD, 3D modeling, and rendering. Equipped with up to 64GB memory, 8TB storage, and NVIDIA® discrete GPU options, it handles intensive workflows with ease. Benefit from advanced AI capabilities with integrated AMD Ryzen™ AI and enjoy adaptive power management for outstanding battery life and efficient, cool, and quiet operation. The all-aluminum chassis ensures MIL-STD 810 durability, while the 2K QHD display with a 120Hz refresh rate provides a superior visual experience. This powerful combination offers users a one-of-a-kind solution designed for the work from anywhere workstation professional.

See endnote: HWKP-30, GD-220c

## AMD RYZEN™ 9 PRO 8945HS PROCESSOR VS INTEL CORE ULTRA 9 185H PROCESSOR

HP ZBook Power G11 A  
AMD Ryzen™ 9 PRO 8945HS CPU



VS



Dell Precision 3591  
Intel® Core™ Ultra 9 185H CPU

UP TO  
**18%** BETTER CAD  
PERFORMANCE  
THAN COMPETITION

When compared to a Dell Precision 3591 powered by Intel® Core™ Ultra 9 185H running the PTC Creo v9 CPU Composite benchmark

UP TO  
**18%** BETTER  
GRAPHICS  
THAN COMPETITION

When compared to a Dell Precision 3591 powered by Intel® Core™ Ultra 9 185H running the SPECviewperf 2020 v3.1 Composite Geomean of all benchmarks

UP TO  
**50%** BETTER AI  
PERFORMANCE  
THAN COMPETITION

When compared to a Dell Precision 3591 powered by Intel® Core™ Ultra 9 185H running the Topaz Labs Video AI Gaia 4X 4K benchmark

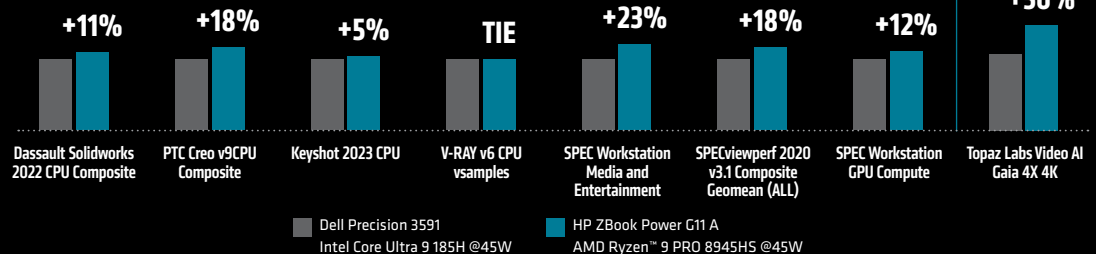
See endnote: HWKP-30

## HP ZBOOK POWER G11 A PERFORMANCE HIGHLIGHTS

### Revolutionizing Performance for Power:

- ✓ AMD “Zen 4” Performance Boost
- ✓ Desktop Class Graphics Performance
- ✓ Better AI Performance
- ✓ Ideal for most demanding Workstation Applications

### APPLICATION PERFORMANCE, UP TO:



See endnote: HWKP-30, GD-122

## BATTERY LIFE TO STAY PRODUCTIVE FROM VIRTUALLY ANYWHERE

**LEADERSHIP** BATTERY LIFE WHEN COMPARED TO MOBILE WORKSTATIONS POWERED BY INTEL CORE ULTRA PROCESSORS

HP ZBook Power G11 A  
AMD Ryzen™ 9 PRO 8945HS CPU



**16:35**  
Total Run Time

VS

**10:17**  
Total Run Time



Dell Precision 3591  
Intel® Core™ Ultra 9 185H CPU

UP TO  
**61%** LONGER BATTERY LIFE FOR VIDEO PLAYBACK

UP TO  
**27%** LONGER BATTERY LIFE FOR TEAMS CONFERENCING

When compared to a Dell Precision 3591 powered by Intel® Core™ Ultra 9 185H processor @ 45W



When compared to a Dell Precision 3591 powered by Intel® Core™ Ultra 9 185H processor @ 45W



See endnote: HWKP-51, HWKP-53

DESIGNED FOR POWER EFFICIENCY

The HP ZBook Power G11 A powered by AMD Ryzen™ 9 PRO 8945HS processor provides leadership performance while consuming less power than the competition. When running typical office productivity applications users can expect to consume:

UP TO  
**64% LESS POWER**

When compared to a Dell Precision 3591 w/Intel® Core™ Ultra 9 185H processor @ 45W



See endnote: HWKP-54, HWKP-52

EXCEEDING 2024 SECURITY REQUIREMENTS FOR MODERN DEVICES

AMD RYZEN™ PRO 8040 SERIES PROCESSORS

DELIVERING MULTI-LAYERED SECURITY FROM HARDWARE, OS TO THE SYSTEM LEVEL

- Comes with integrated **Microsoft Pluton security** delivering chip-to-cloud protection
- **AMD Memory Guard** helps protect company's sensitive business data when an employee's PC is lost or stolen
- AMD offers outstanding security to **enable critical security solutions** from OS providers and OEMs



HP WOLF SECURITY

WINDOWS® 11 OS SECURITY  
Secured-Core PC  
Hardware Enforced Stack Protection

AMD MEMORY GUARD

MICROSOFT PLUTON SECURITY  
FIPS 140-3 Level 1 Certification  
AMD SECURE PROCESSOR


AMD "ZEN 4" ARCHITECTURE  
AMD Shadow Stack

YOUR DATA

■ Partner Security features ■ AMD Security features

See endnote: GD-202, GD-206, GD-72

SPECIFICATIONS

MODEL	PROCESSOR	GRAPHICS	DISPLAY	AMD RYZEN™ AI	HP WOLF SECURITY	OPERATING SYSTEM	BATTERY LIFE	CONNECTIVITY	DIMENSIONS/WEIGHT
HP ZBook Power G11 A 	<b>AMD Ryzen™ and Ryzen™ PRO 8040 Series Processors:</b>  AMD Ryzen™ 9 PRO 8945HS AMD Ryzen™ 7 PRO 8845HS AMD Ryzen™ 5 PRO 8645HS AMD Ryzen™ 9 8945HS AMD Ryzen™ 7 8845HS AMD Ryzen™ 5 8645HS	Integrated AMD Radeon™ PRO Graphics  Up to Nvidia RTX 3000 Ada graphics	16" diagonal, WQXGA (2560 x 1600), IPS, anti-glare, 400 nits, 100% sRGB, Low Blue Light	✓	✓	Windows 11 Pro	Up to 16.58 hours of Video Playback Battery Life*	2 Thunderbolt™ 4 with USB4 Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) * 2 Super Speed USB Type-A 5Gbps signaling rate (1 charging)	14.15 x 9.88 x 0.9 in 35.94 x 25.1 x 2.29 cm  Starting at 4.5 lb Starting at 2.04 kg

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1. HWKP-30. Testing as of 4/7/24 by BOXX Technologies, commissioned by AMD, on an HP Zbook Power G11 with an AMD Ryzen™ 9 PRO 8945HS processor (45W) with Nvidia RTX 3000 Ada graphics, 32GB RAM, 1TB NVMe SSD, Microsoft Windows 11 Professional (x64) vs. a Dell Precision 3591 with Intel Core Ultra 9 185H processor (45W), Nvidia RTX 2000 Ada graphics, 64GB RAM, 1TB SSD, Microsoft Windows 11 Professional (x64). The following applications were tested in Best Performance Mode: Dassault Solidworks 2022 CPU Composite, PTC Creo v9 CPU Composite, Keyshot 2023 CPU, Topaz Labs Video AI Gala 4X 4K, V-RAY v6 CPU vsmplines, SPEC Workstation Media and Entertainment, SPECviewperf 2020 v3.1 Composite Geomean, SPEC Workstation GPU Compute. Results may vary. HWKP-30.  
2. GD-220c. Ryzen™ AI is defined as the combination of a dedicated AI engine, AMD Radeon™ graphics engine, and Ryzen processor cores that enable AI capabilities. OEM and ISV enablement is required, and certain AI features may not yet be optimized for Ryzen AI processors. Ryzen AI is compatible with: (a) AMD Ryzen 7040 and 8040 Series processors except Ryzen 5 7540U, Ryzen 5 8540U, Ryzen 3 7440U, and Ryzen 3 8440U processors; (b) AMD Ryzen AI 300 Series processors; and (c) all AMD Ryzen 8000G Series desktop processors except the Ryzen 5 8500G/GE and Ryzen 3 8300G/GE. Please check with your system manufacturer for feature availability prior to purchase. GD-220c.  
3. GD-122. The information contained herein is for informational purposes only and is subject to change without notice. Timelines, roadmaps, and/or product release dates shown herein are plans only and subject to change. [Insert codenames with quotation marks, i.e. "Zen"; "Zen 2"] are codenames for AMD architectures and are not product names.  
4. HWKP-51. Testing as of 6/6/24 by AMD Performance Labs on an HP Zbook Power G11 A powered by AMD Ryzen™ PRO 8040 HS-Series processors @45W vs. a Dell Precision 3591 with Intel Core Ultra 9 185H processor (45W), Nvidia RTX 2000 Ada graphics, 32GB RAM, 1TB SSD, Microsoft Windows 11 Professional (x64). Both systems are run in Best Power Efficiency Mode. Video playback battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. Results may vary. HWKP-51.  
5. HWKP-53. Based on internal testing by AMD as of 6/6/24. Battery life results evaluated by operation of a nine-participant Microsoft Teams video conference on battery. Test configuration for AMD and Intel systems run from power level 90% > 45% @150nits brightness and power mode set to "best power efficiency." System config for HP Zbook Power G11 with an AMD Ryzen™ 9 PRO 8945HS processor (45W) with Nvidia RTX 3000 Ada graphics, 32GB RAM, 1TB NVMe SSD, 83Wh battery, Microsoft Windows 11 Professional (x64) in Best Power Efficiency Mode. System configuration for Dell Precision 3591 with Intel Core Ultra 9 185H processor (45W), Nvidia RTX 2000 Ada graphics, 32GB RAM, 1TB SSD, 64Wh battery, Microsoft Windows 11 Professional (x64) in best power efficiency mode. Manufacturers may vary configurations yielding different results. Performance may also vary based on use of latest drivers. HWKP-53.  
6. HWKP-54. Testing as of 6/6/24 by AMD Performance Labs on a HP Zbook Power G11 with an AMD Ryzen™ 9 PRO 8945HS processor (45W) with Nvidia RTX 3000 Ada graphics, 32GB RAM, 1TB NVMe SSD, Microsoft Windows 11 Professional (x64) vs. a Dell Precision 3591 with Intel Core Ultra 9 185H processor (45W), Nvidia RTX 2000 Ada graphics, 32GB RAM, 1TB SSD, Microsoft Windows 11 Professional (x64). All systems run with the camera and background blur ON, in Best Performance Mode using the following applications: Microsoft Teams + Procyon Office Productivity Overall benchmark measuring Wall power consumed (watts). Each Microsoft Teams call consists of 9 participants (3x3). Laptop manufacturers may vary configurations yielding different results. HWKP-54.  
7. HWKP-52. Testing as of 6/6/24 by AMD Performance Labs on a HP Zbook Power G11 with an AMD Ryzen™ 9 PRO 8945HS processor (45W) with Nvidia RTX 3000 Ada graphics, 32GB RAM, 1TB NVMe SSD, Microsoft Windows 11 Professional (x64) vs. a Dell Precision 3591 with Intel Core Ultra 9 185H processor (45W), Nvidia RTX 2000 Ada graphics, 32GB RAM, 1TB SSD, Microsoft Windows 11 Professional (x64). The following applications were tested in Balanced Mode: Teams + Procyon Office Productivity, Teams + Procyon Office Productivity Excel, Teams + Procyon Office Productivity Outlook, Teams + Procyon Office Productivity Power Point, Teams + Procyon Office Productivity Word, Composite Geomean Score. Each Microsoft Teams call consists of 9 participants (3x3). Laptop manufacturers may vary configurations yielding different results. HWKP-52.  
8. GD-202. Microsoft Pluton is a technology owned by Microsoft and licensed to AMD. Microsoft Pluton is a registered trademark of Microsoft Corporation in the United States and/or other countries. Learn more at <https://www.microsoft.com/security/blog/2020/11/17/meet-the-microsoft-pluton-processor-the-security-chip-designed-for-the-future-of-windows-pcs/>. Microsoft Pluton security processor requires OEM enablement. Check with the OEM before purchase. AMD has not verified the third-party claim. GD-202.  
9. GD-206. Full system memory encryption with AMD Memory Guard is included in AMD Ryzen PRO, AMD Ryzen Threadripper PRO, and AMD Athlon PRO processors. Requires OEM enablement. Check with the system manufacturer prior to purchase. GD-206.  
10. GD-72. The AMD Secure Processor is a dedicated on-chip security processor integrated within each system-on-a-chip (SoC) and ASIC (Application Specific Integrated Circuit) designed by AMD. It enables secure boot with root of trust anchored in hardware, initializes the SoC through a secure boot flow, and establishes an isolated Trusted Execution Environment. GD-72.

\*Zen 4" is a codename only and not an AMD product name.  
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