

AMD RYZEN™ AI PRO 400 SERIES

PROCESSORS FOR MOBILE WORKSTATIONS

POWERING THE NEXT GENERATION OF AI-ENHANCED MOBILE WORKSTATIONS

The AMD Ryzen™ AI PRO 400 Series processors mark a new era in mobile workstation performance - one that empowers professionals to push creative, engineering, and scientific boundaries with AI-accelerated precision. Built on the powerful “Zen 5” architecture and featuring integrated AMD RDNA™ 3.5 architecture and AI engines based on AMD XDNA™ 2 Architecture, these processors bring enterprise-ready performance, security, and flexibility to the most demanding mobile workstation workflows.

AMD Zen 5

- Leadership performance and battery life
- Cool and quiet operation

AMD XDNA 2

- Up to **55** AI TOPS⁴
- Copilot+ ready

AMD RDNA 3.5

- Next-level performance per watt
- Up to **16** AMD RDNA 3.5 GPU Cores

AMD PRO Technologies

- Multi-layered security approach
- Fast PC deployment
- Exceptional ROI

LEADERSHIP PERFORMANCE FOR PROFESSIONAL WORKLOADS

WORKSTATION WORKLOADS PERFORMANCE LEADERSHIP

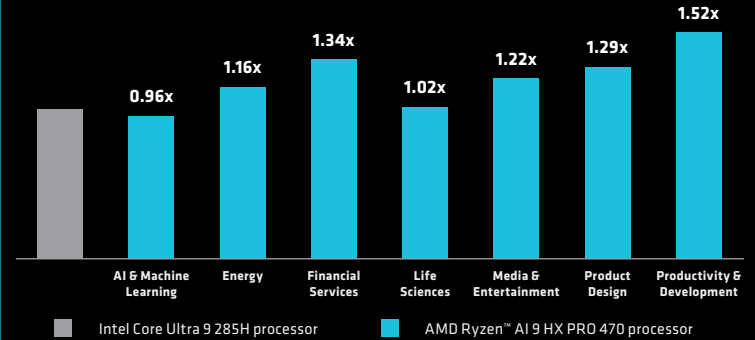
SPEC Workstation 4 CPU Score

1.12x

FASTER PERFORMANCE IN WORKSTATION WORKLOADS

When compared to Intel® Core™ Ultra 9 285H

SPEC Workstation 4



See endnote: GPP-11

FASTER CPU-BOUND RENDERING

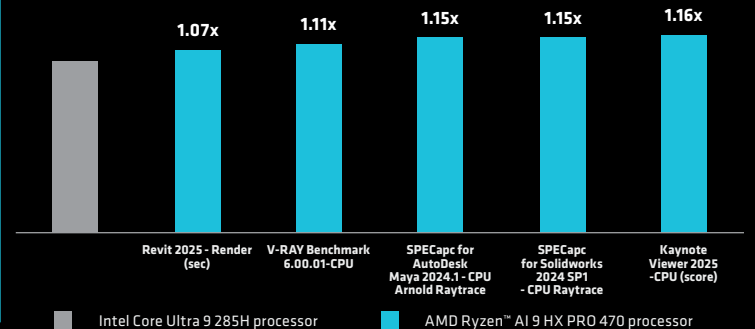
UP TO

1.16x

FASTER CPU RENDERING

When compared to Intel® Core™ Ultra 9 285H running Keyshot Viewer 2025 - CPU

Rendering Workloads



See endnote: GPP-08

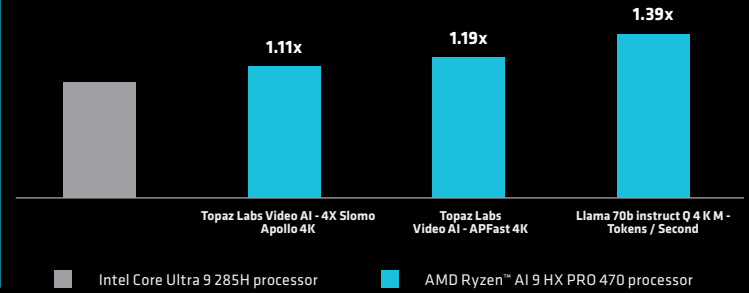
HIGHER THROUGHPUT IN AI WORKLOADS

UP TO

1.39x FASTER INFERENCE

When compared to Intel® Core™ Ultra 9 285H running Llama 70b instruct Q 4 K M

AI Workloads



See endnote: GPP-10

PROVIDING NEXT-LEVEL SECURITY FOR MODERN DEVICES

AMD RYZEN™ PRO 400 SERIES PROCESSORS

DELIVERING MULTI-LAYERED SECURITY FEATURES FROM SILICON TO PLATFORM

- **AMD Memory Guard**
Protecting a company's sensitive business data
- **AMD Robust Security**
Enabling critical security solutions from OS providers and OEMs
- **Microsoft Pluton Security**
Integrated security delivering chip-to-cloud protection



- **YOUR DATA**
- **OEM SYSTEM-LEVEL SECURITY FEATURES**
- **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" ARCHITECTURE**
AMD Shadow Stack

■ Partner Security features ■ AMD Security features

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

AMD RYZEN™ AI PRO 400 SERIES PROCESSOR VS INTEL CORE ULTRA SPECS

AMD RYZEN™ PRO	CORES/THREADS	MAX BOOST ¹	CACHE	INTEGRATED AI ENGINE	GPU CORES	NPU TOPS ⁴	CONFIG TDP	AMD PRO TECHNOLOGIES
AMD Ryzen™ AI 9 HX PRO 470	12C / 24T	5.2 GHz	36 MB	✓	16	55	15-54W	✓
AMD Ryzen™ AI 9 PRO 465	10C / 20T	5.2 GHz	24 MB	✓	12	50	15-54W	✓
AMD Ryzen™ AI 7 PRO 450	8C / 16T	5.0 GHz	24 MB	✓	8	50	15-54W	✓
AMD Ryzen™ AI 5 PRO 440	6C / 12T	4.8 GHz	22 MB	✓	4	50	15-54W	✓
AMD Ryzen™ AI 5 PRO 435	6C / 12T	4.5 GHz	22 MB	✓	4	50	15-54W	✓

INTEL CORE ULTRA	CORES/THREADS	MAX BOOST	CACHE	GPU CORES	NPU TOPS	TDP	INTEL vPRO
Intel Core Ultra 9 285H	16C (6P+8E+2LPE) / 16T	5.4 GHz	24 MB	8Xe	13	45W	✓
Intel Core Ultra 7 265H	16C (6P+8E+2LPE) / 16T	5.3 GHz	24 MB	8Xe	13	28W	✓
Intel Core Ultra 7 255H	16C (6P+8E+2LPE) / 16T	5.1 GHz	24 MB	8Xe	13	28W	✓
Intel Core Ultra 5 235H	14C (4P+8E+2LPE) / 14T	5.0 GHz	18 MB	7Xe	13	28W	✓
Intel Core Ultra 7 225H	14C (4P+8E+2LPE) / 14T	4.9 GHz	18 MB	7Xe	13	28W	✓

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¹ **GD-150:** Boost Clock Frequency is the maximum frequency achievable on the CPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads. **GD-150**
² **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**
³ **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**
⁴ **GD-243:** Trillions of Operations per Second (TOPS) for an AMD Ryzen processor is the maximum number of operations per second that can be executed in an optimal scenario and may not be typical. TOPS may vary based on several factors, including the specific system configuration, AI model, and software version. **GD-243**
⁵ **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**
⁶ **GPP-08:** Testing as of Mar 2025 by AMD on a Dell Pro Max 16 laptop with AMD Ryzen AI 9 HX PRO 470, 64GB RAM, Nvidia RTX PRO 1000 Blackwell vs. a similarly configured laptop with Intel Core Ultra 9 285H, 64GB RAM, Nvidia RTX PRO 1000 Blackwell. Tested using Windows 11 Pro in the following benchmarks: Revit 2025 - Render (sec), V-RAY Benchmark 6.00.01 - CPU, SPECcap for AutoDesk Maya 2024.1 - CPU Arnold Raytrace, SPECcap for Solidworks 2024 SPI - CPU Raytrace, Keyshot Viewer 2025 - CPU (score). Performance may vary based on factors including driver version and system configuration. **GPP-08**
⁷ **GPP-10:** Testing as of Mar 2025 by AMD on a Dell Pro Max 16 laptop with AMD Ryzen AI 9 HX PRO 470, 64GB RAM, Nvidia RTX PRO 1000 Blackwell vs. a similarly configured laptop with Intel Core Ultra 9 285H, 64GB RAM, Nvidia RTX PRO 1000 Blackwell. Tested using Windows 11 Pro in the following benchmarks: Topaz Labs Video AI - 4X Slomo Apollo 4K, Topaz Labs Video AI - APFast 4K, Llama 70b instruct Q 4 K M - Tokens/second. Performance may vary based on factors including driver version and system configuration. **GPP-10**
⁸ **GPP-11:** Testing as of Mar 2025 by AMD on a Dell Pro Max 16 laptop with AMD Ryzen AI 9 HX PRO 470, 64GB RAM, Nvidia RTX PRO 1000 Blackwell vs. a similarly configured laptop with Intel Core Ultra 9 285H, 64GB RAM, Nvidia RTX PRO 1000 Blackwell. Tested using Windows 11 Pro in the following benchmarks: SPEC Workstation 4 - AI 6 Machine Learning, SPEC Workstation 4 - Energy, SPEC Workstation 4 - Financial Services, SPEC Workstation 4 - Life Sciences, SPEC Workstation 4 - Media 6 Entertainment, SPEC Workstation 4 - Product Design, SPEC Workstation 4 - Productivity 6 Development, SPEC Workstation 4 - CPU. Performance may vary based on factors including driver version and system configuration. **GPP-11**

*Zen 5 is a codename only and not an AMD product name.
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