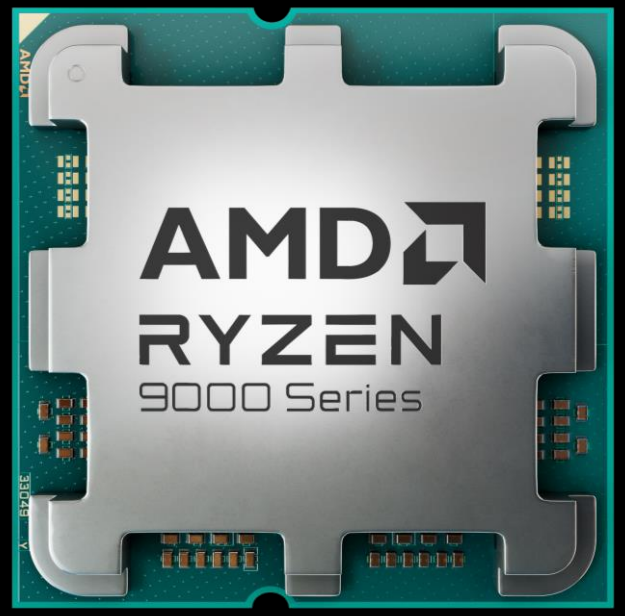

AMD Ryzen™ 9000
Series Processors

Ryzen™ 9 9950X	16 cores 32 threads	up to 5.7 GHz max boost	80 MB cache	170W TDP
Ryzen™ 9 9900X	12 cores 24 threads	up to 5.6 GHz max boost	76 MB cache	120W TDP
Ryzen™ 7 9700X	8 cores 16 threads	up to 5.5 GHz max boost	40 MB cache	65W TDP
Ryzen™ 5 9600X	6 cores 12 threads	up to 5.4 GHz max boost	38 MB cache	65W TDP

*see endnotes GD-150

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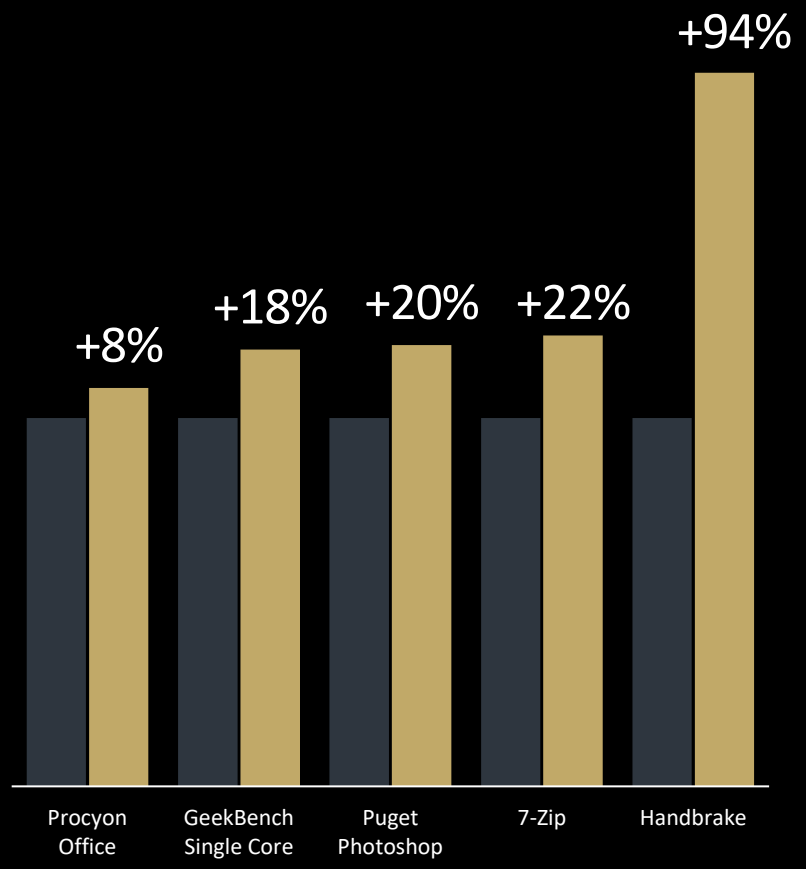
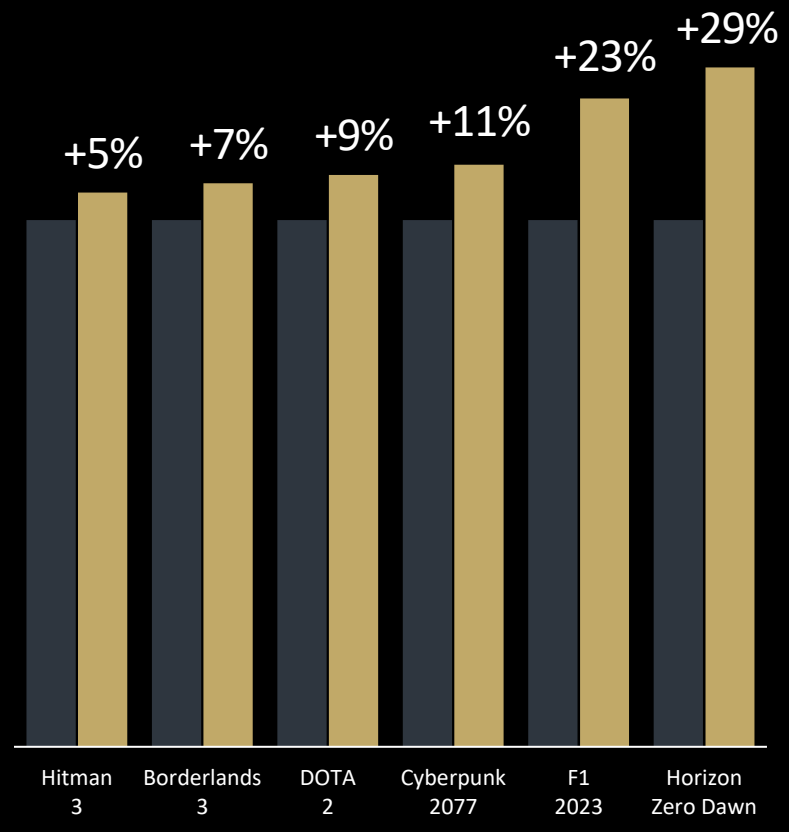
AMD Ryzen™ 5 9600X

Productivity & Content Creation Leadership



Intel™ Core® i5 14600K	AMD Ryzen™ 5 9600X

Gaming Leadership



*all results are 'up to'. See endnote GNR-08

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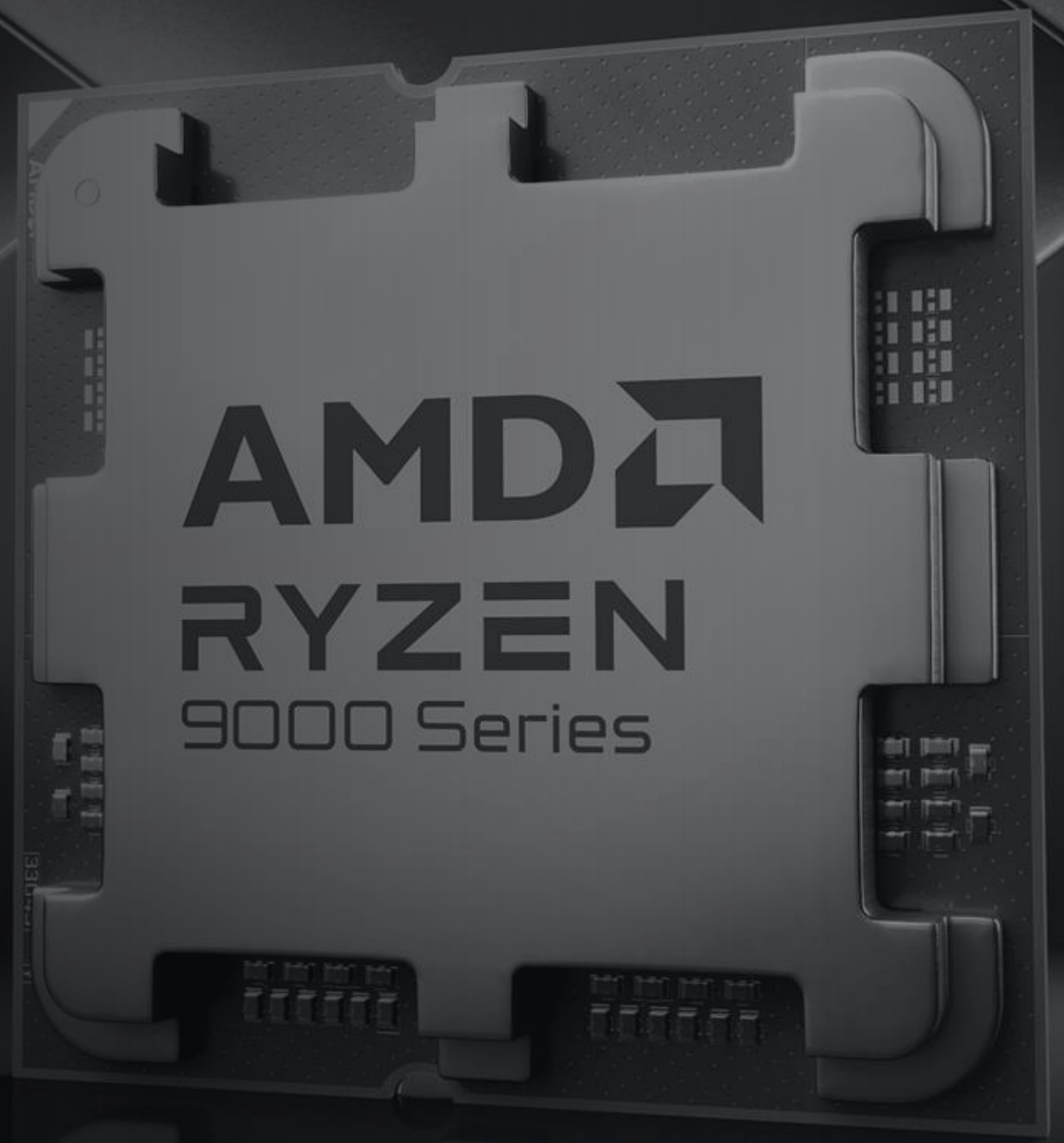
Leading Efficiency, Commanding Performance

Less Power Usage

Cooler Systems

Quieter Operation



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Extending AMD's Efficiency Leadership on Desktop

15%

7°

Thermal Resistance Improvement

Temperature Reduction
at the same TDP

*all results are 'up to'. See endnote GNR-11

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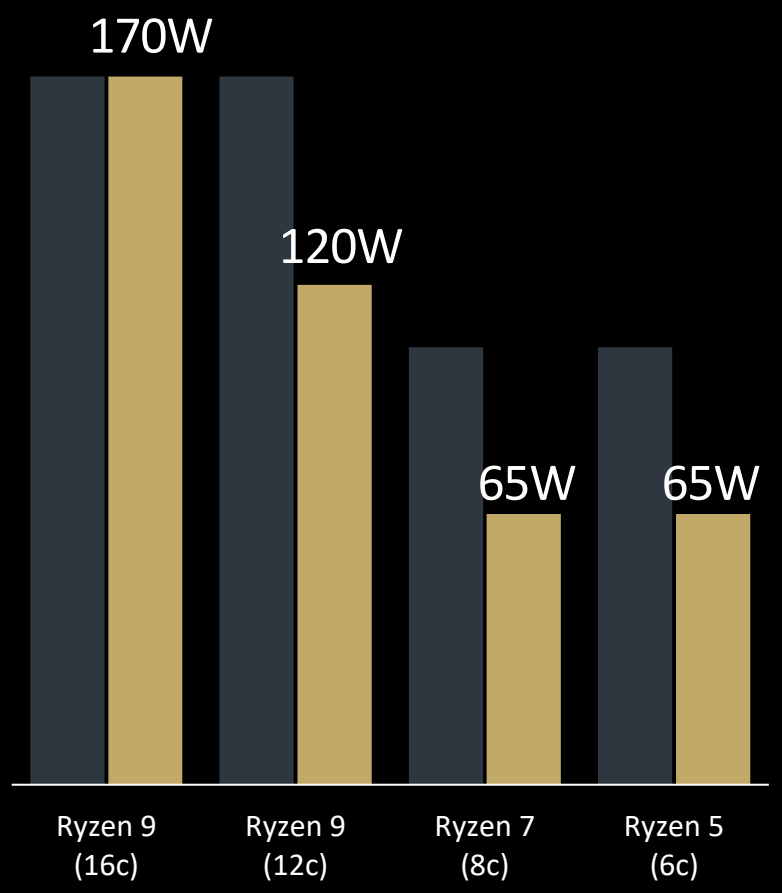
Extending AMD's Efficiency Leadership on Desktop

Lower Power

Thermal Design power (TDP)



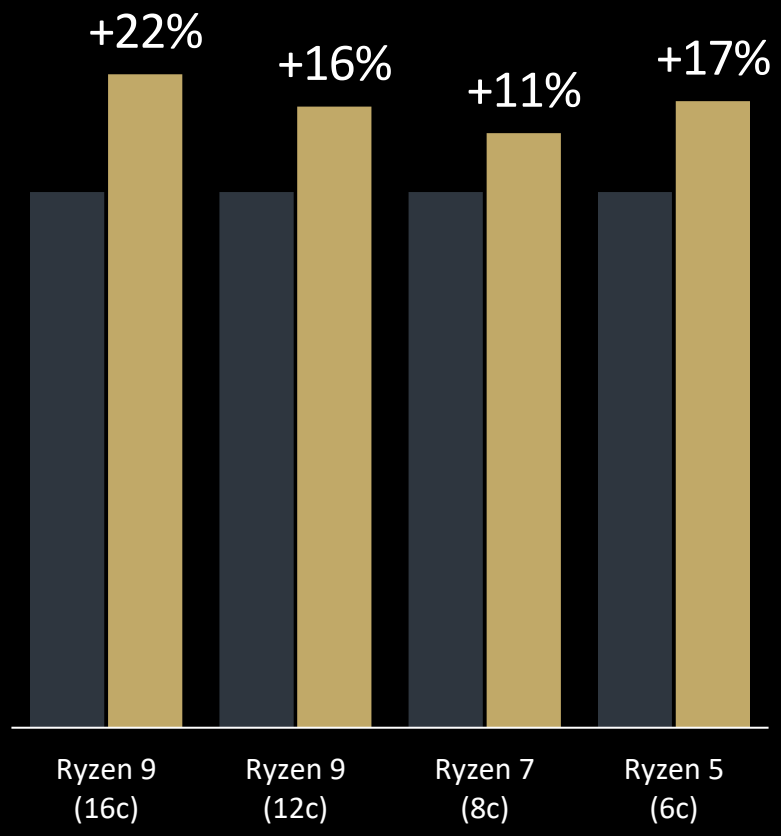
- Lowered the Thermal Design Power (TDP) of all models below Ryzen 9 9950X
- All models deliver increased performance

AMD Ryzen™ 7000 Series

AMD Ryzen™ 9000 Series

Higher Performance

Blender 3D Render, nT Performance



*all results are 'up to'. See endnote GNR-10

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Overclocking Enhancements

Memory

- New AGESA supporting up to DDR5-8000
- New Memory Overclocking on-the-fly, and Memory Optimized Performance Profile features
- Memory OC enabled on all AM5 consumer chipsets
- JEDEC support for DDR5-5600

Processor

- New ‘Curve Shaper’ overclocking feature

*See endnote GD-106

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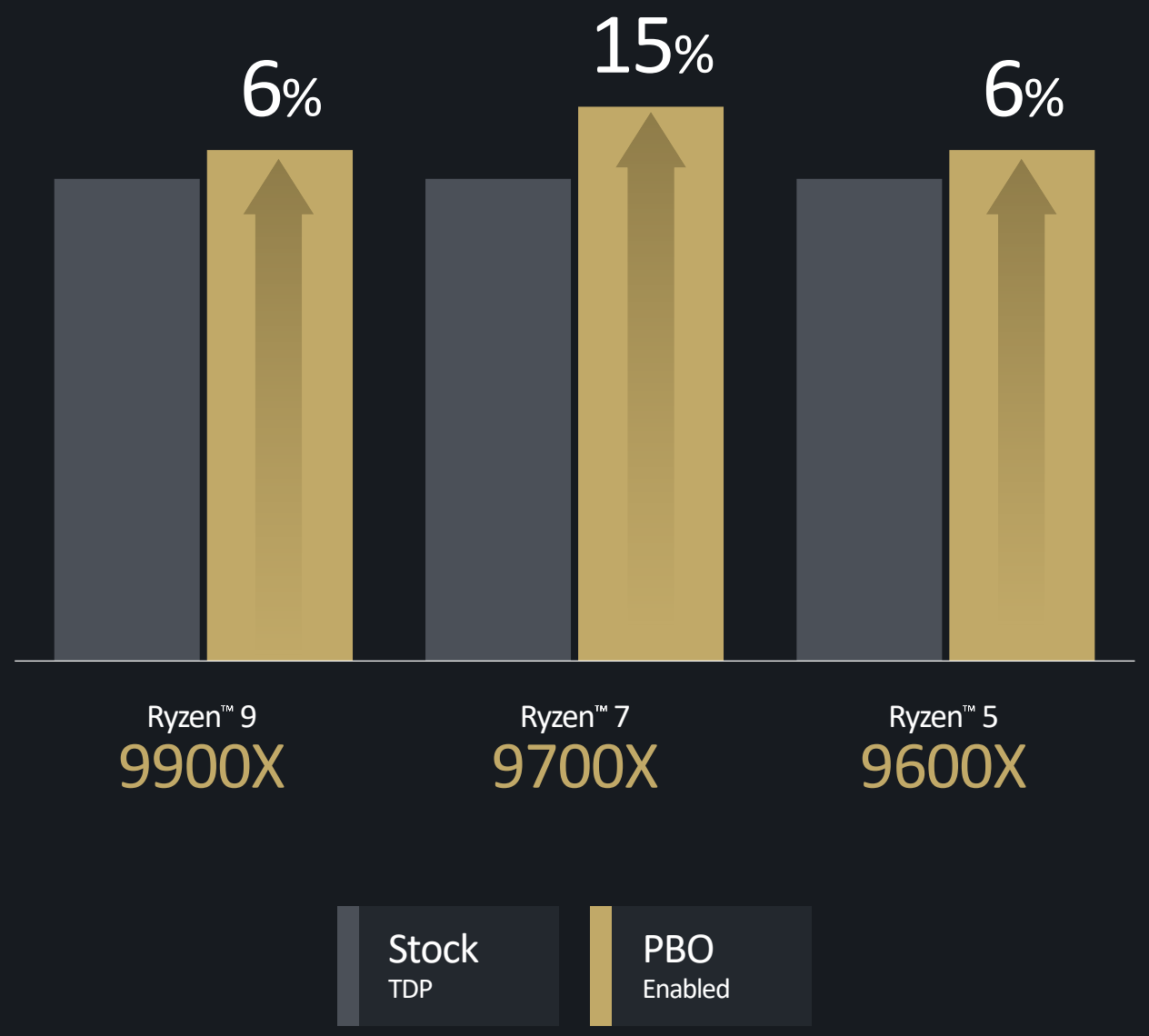
Precision Boost Overdrive One-Click Overclocking

If a user desires to prioritize performance over efficiency, especially for multi-threaded workloads, the lower default TDPs means even more extra performance headroom with PBO enabled



*all results are 'up to'. See endnote GNR-12

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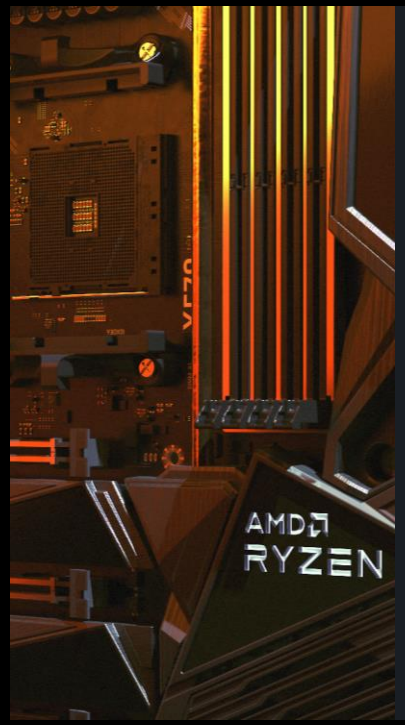
Unmatched Socket Longevity

Incredible AM5 Platform Commitment

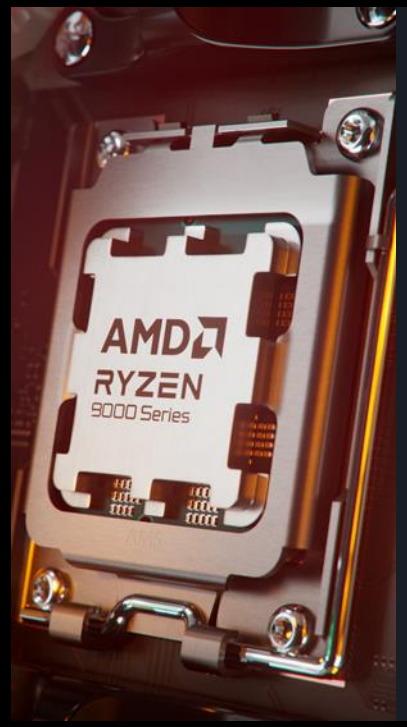


Socket AM4

145 CPU and APU models to-date

Nearly 9 years of new products

ZEN ZEN 2 ZEN 3 AMD 3D V-Cache™ Technology



Socket AM5

38 CPU and APU models and growing

Extending longevity through 2027+

ZEN 4 AMD 3D V-Cache™ Technology ZEN 5

*all roadmaps subject to change

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The AMD 800 Series Chipset Family

Simplifying the value proposition for users

	PCIe®	USB	Overclocking	Graphics	Competition
AMD X870E Chipset	Gen 5 Graphics and NVMe	USB 4 *Mandatory*	CPU and Memory	1x16, 2x8	Z790
AMD X870 Chipset	Gen 5 Graphics and NVMe	USB 4 *Mandatory*	CPU and Memory	1x16, 2x8	X670
AMD B850 Chipset	Gen 5 NVMe (Gfx optional) Gen 4 Graphics	USB 3.2 *20 Gbps*	CPU and Memory	1x16, 2x8	B760
AMD B840 Chipset	Gen 3	USB 3.2 *10 Gbps*	Memory only	1x16	B760

*all results are 'up to'. See endnote GD-106

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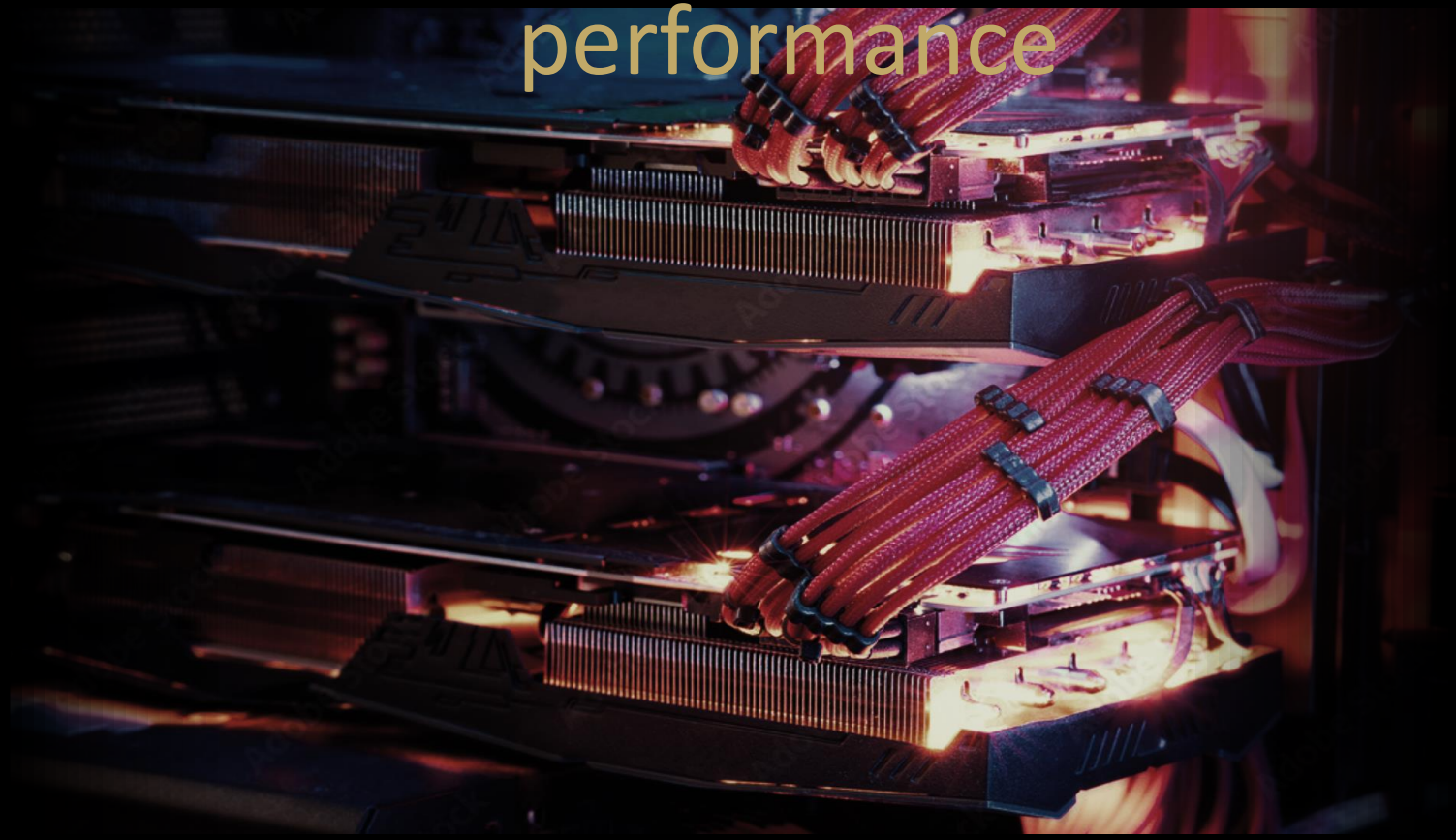
AMD Ryzen™ AM5 platform for serious AI performance



The Ultimate Enthusiast AI Platform

CONTENT CREATION – DEVELOPMENT - PRODUCTIVITY

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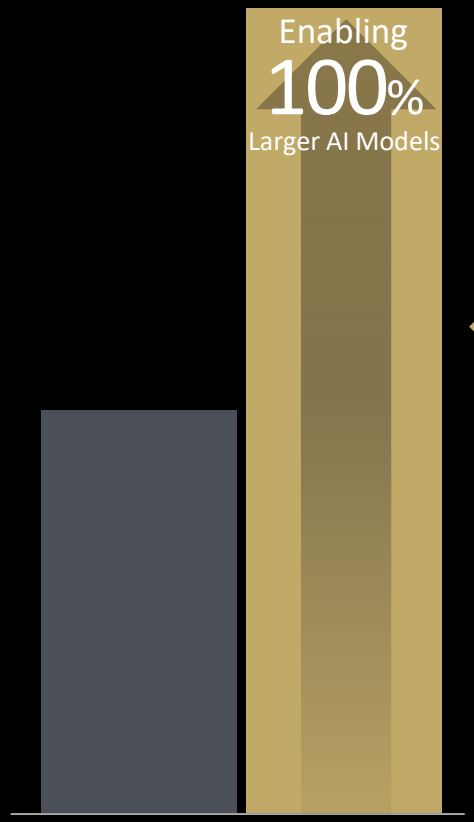
Enthusiast AI Graphics

No Compromise with AMD Socket AM5

Intel™ Core® i9
14900K

AMD Ryzen™ 9
9900X

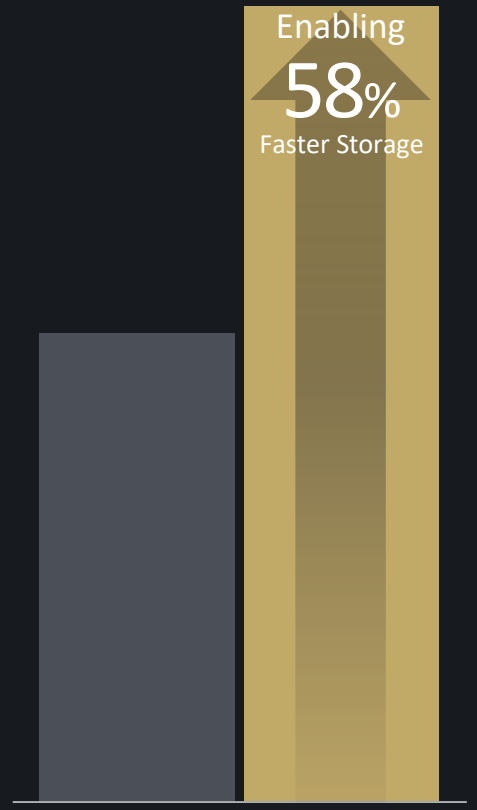


Multiple GPUs

AI Model Enablement

The Competition Forces You to Choose One or the Other

AMD Delivers Both at the Same Time



PCIe® 5 SSD Disk Write Speed

Storage Bandwidth MB/s

*all results are 'up to'. See endnote GNR-13

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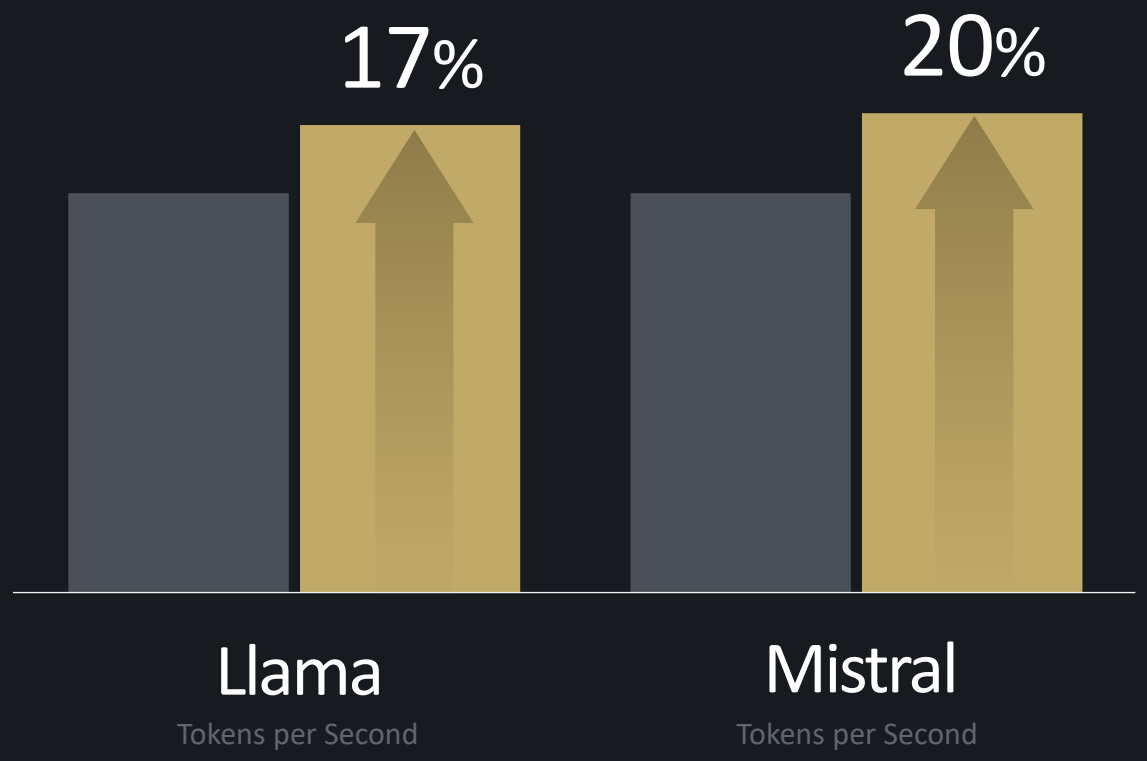
The Ultimate
Enthusiast AI Platform

The CPU has never been a more important AI accelerator in the PC Ecosystem, and AMD 'Zen5' has winning performance with AVX512 / VNNI acceleration support.

Intel™ Core® i9	AMD Ryzen™ 9
14900K	9900X

Large Language Model
AI Acceleration on 'Zen 5' Cores



*all results are 'up to'. See endnote GNR-14

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AMD Ryzen™ 9000 Series Processors

Ryzen™ 9 9950X	16 cores	32 threads
Ryzen™ 9 9900X	12 cores	24 threads
Ryzen™ 7 9700X	8 cores	16 threads
Ryzen™ 5 9600X	6 cores	12 threads

Coming July 31, 2024

*see endnotes GD-150

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