

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

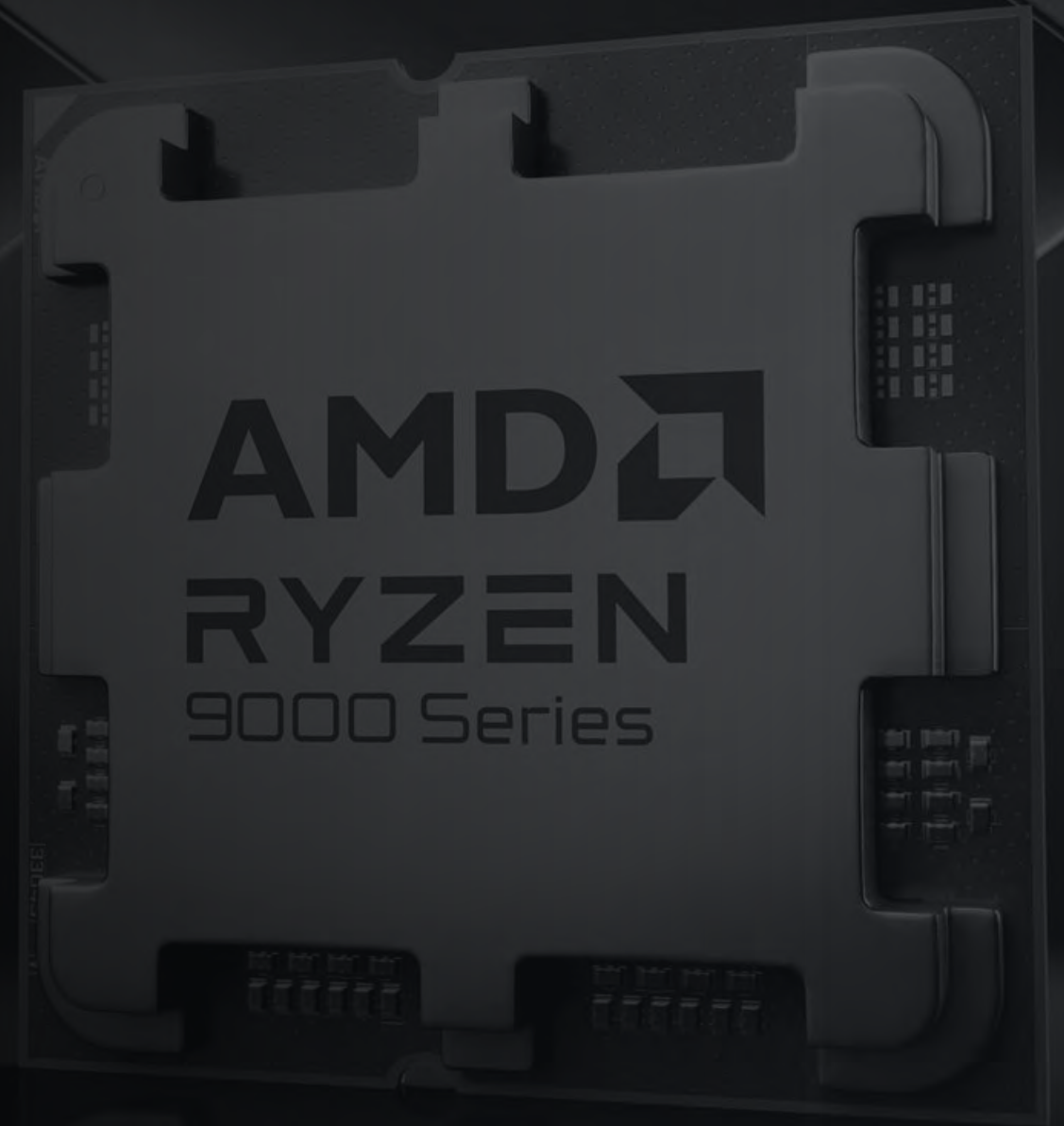
65W
TDP

Leading Efficiency, Commanding Performance

Less Power Usage

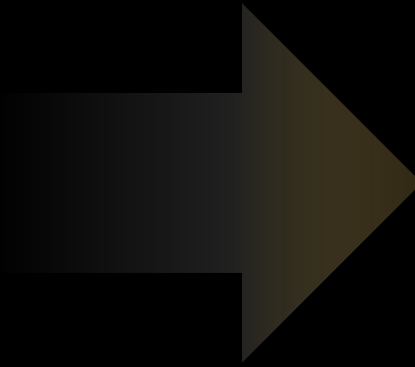
Cooler Systems

Quieter Operation



Extending AMD's Efficiency Leadership on Desktop

15%



7°

Thermal Resistance
Improvement

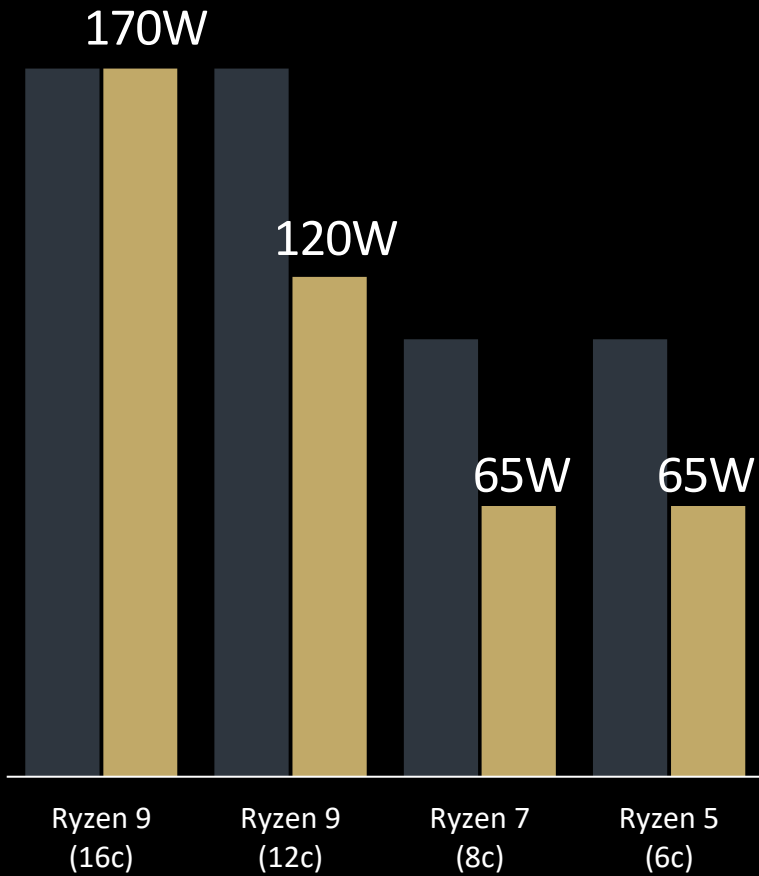
Temperature Reduction
at the same TDP

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

Extending AMD's Efficiency Leadership on Desktop

Lower Power

Thermal Design power (TDP)

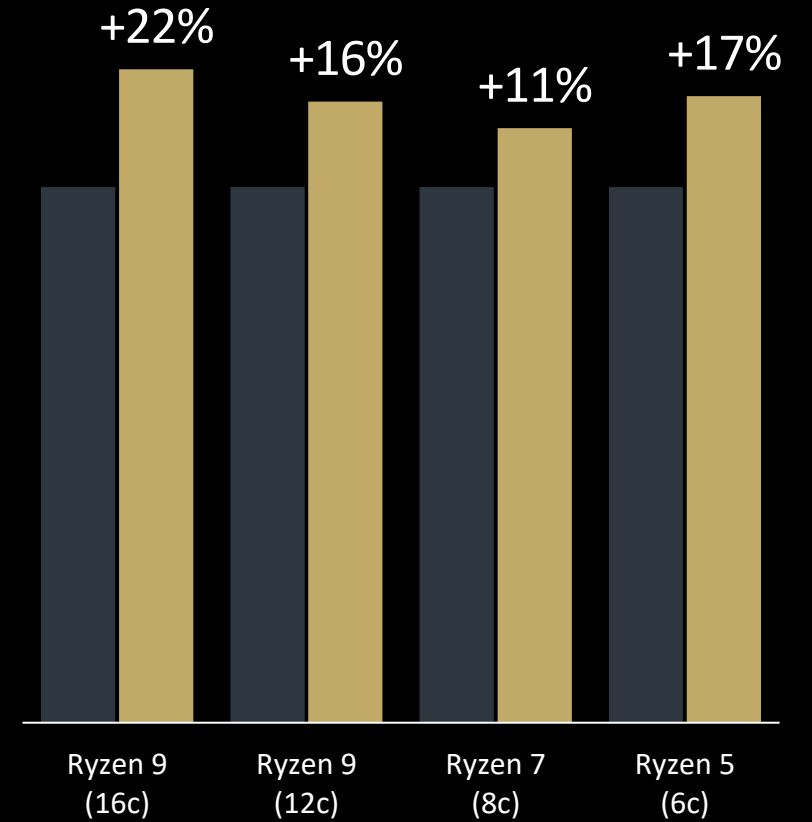


- Lowered the Thermal Design Power (TDP) of all models below Ryzen 9 9950X
- All models deliver increased performance



Higher Performance

Blender 3D Render, nT Performance



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

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

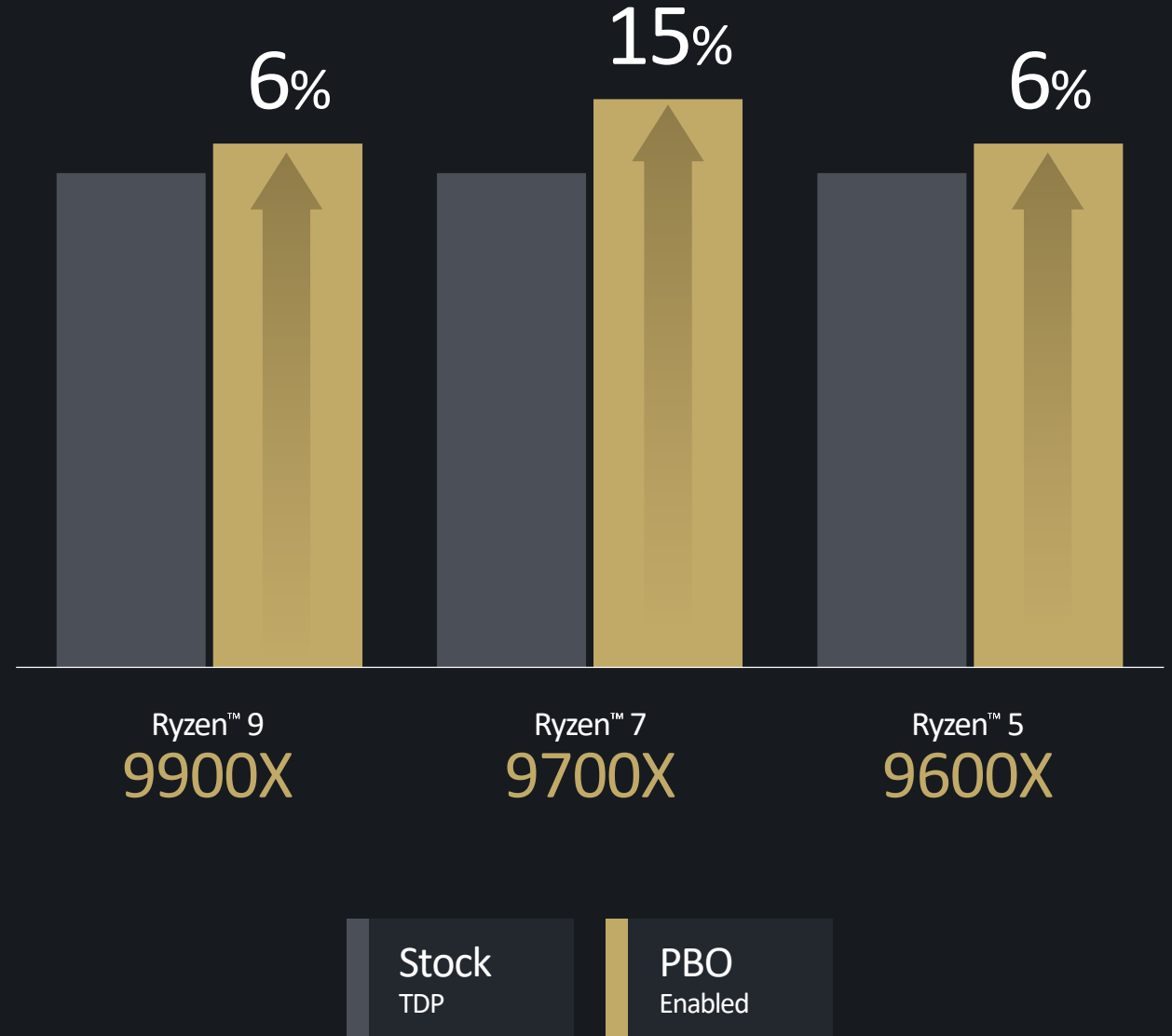
Processor

- New 'Curve Shaper' overclocking feature



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

Unmatched Socket Longevity

Incredible AM5 Platform Commitment



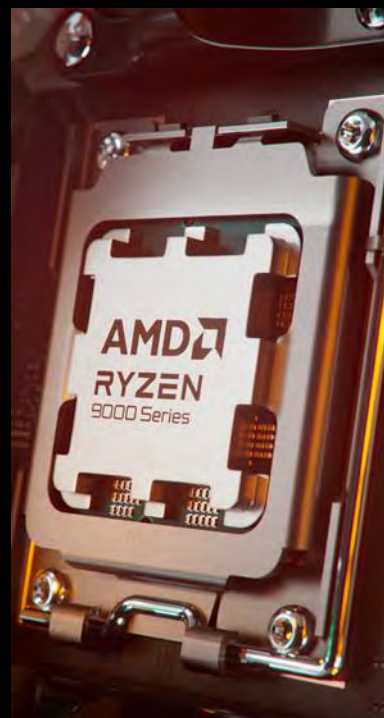
Socket AM4

145 CPU and APU models to-date

Nearly 9 years of new products



AMD 3D V-Cache™
Technology



Socket AM5

38 CPU and APU models and growing

Extending longevity through 2027+



AMD 3D V-Cache™
Technology



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 <i>Mandatory</i>	CPU and Memory	1x16, 2x8	Z790
AMD X870 Chipset	Gen 5 Graphics and NVMe	USB 4 <i>Mandatory</i>	CPU and Memory	1x16, 2x8	X670
AMD B850 Chipset	Gen 5 NVMe (Gfx optional) Gen 4 Graphics	USB 3.2 <i>20 Gbps</i>	CPU and Memory	1x16, 2x8	B760
AMD B840 Chipset	Gen 3	USB 3.2 <i>10 Gbps</i>	Memory only	1x16	B760

Enthusiast AI Graphics

No Compromise with AMD Socket AM5

Intel™ Core® i9
14900K

AMD Ryzen™ 9
9900X



AMD Delivers Both
at the Same Time

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

The Ultimate Enthusiast AI Platform

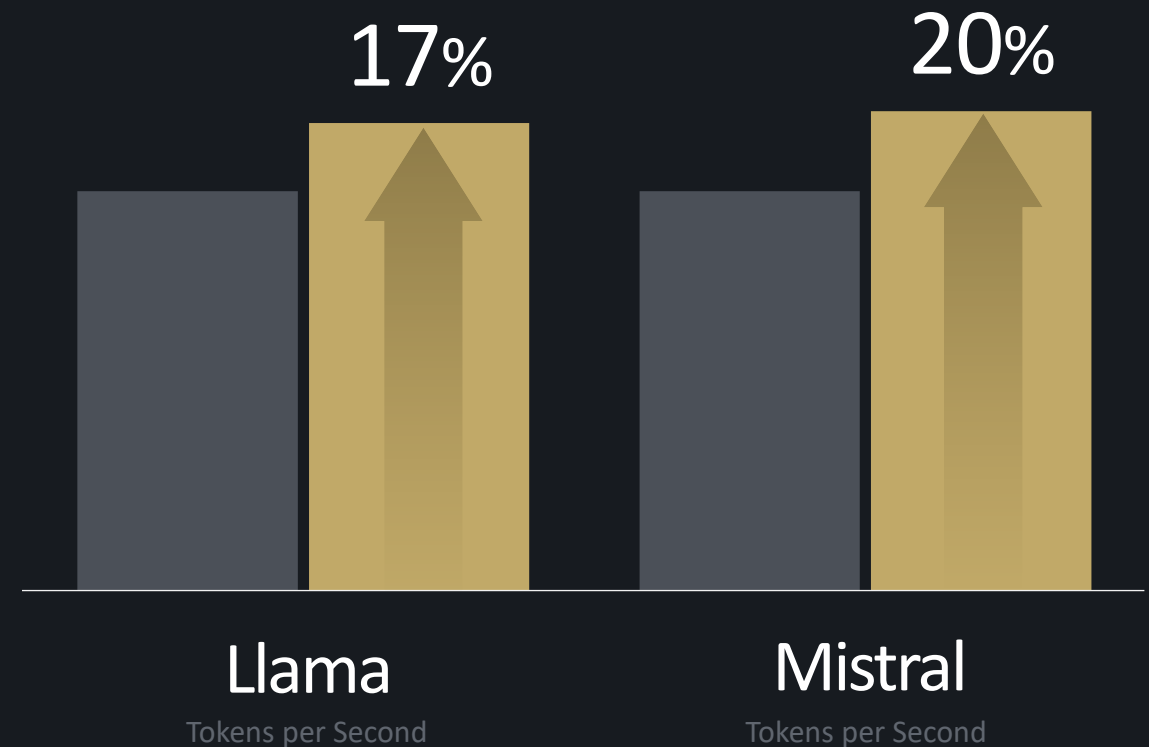
The CPU has never been a more important AI accelerator in the PC Ecosystem, and AMD 'Zen5' has winning performance with AVX512 / VNNI acceleration support.

Intel™ Core® i9
14900K

AMD Ryzen™ 9
9900X

Large Language Model

AI Acceleration on 'Zen 5' Cores



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

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