

AMD RYZEN™ 7 9800X3D DESKTOP PROCESSOR

The Ultimate Gaming Edge

Built using 2nd Gen AMD 3D V-Cache™ Technology to provide an incredible boost in gaming performance, the AMD Ryzen™ 7 9800X3D processor is designed to be faster than system memory. With a colossal on-chip cache memory bank, this processor is positioned for maximum power and effectiveness.

TARGET AUDIENCE



MAINSTREAM



CREATORS



GAMERS

SELL IT IN 30 SECONDS

INCREDIBLE POWER

- High-performance “Zen 5” core technology¹
- A powerhouse processor for gaming and content creation
- 4nm manufacturing process

LEADERSHIP TECHNOLOGIES

- AMD 3D V-Cache™ technology for the best gaming experiences
- AMD EXPO™ technology² with one-touch memory overclocking for more performance
- Designed to deliver incredible AI acceleration with AMD Radeon™ graphics capabilities

DEPENDABLE LONGEVITY

- Platform upgradability to future, next-gen processors
- Fast DDR5 memory speeds
- Incredible bandwidth with PCIe® 5.0

PRODUCT SPECIFICATIONS

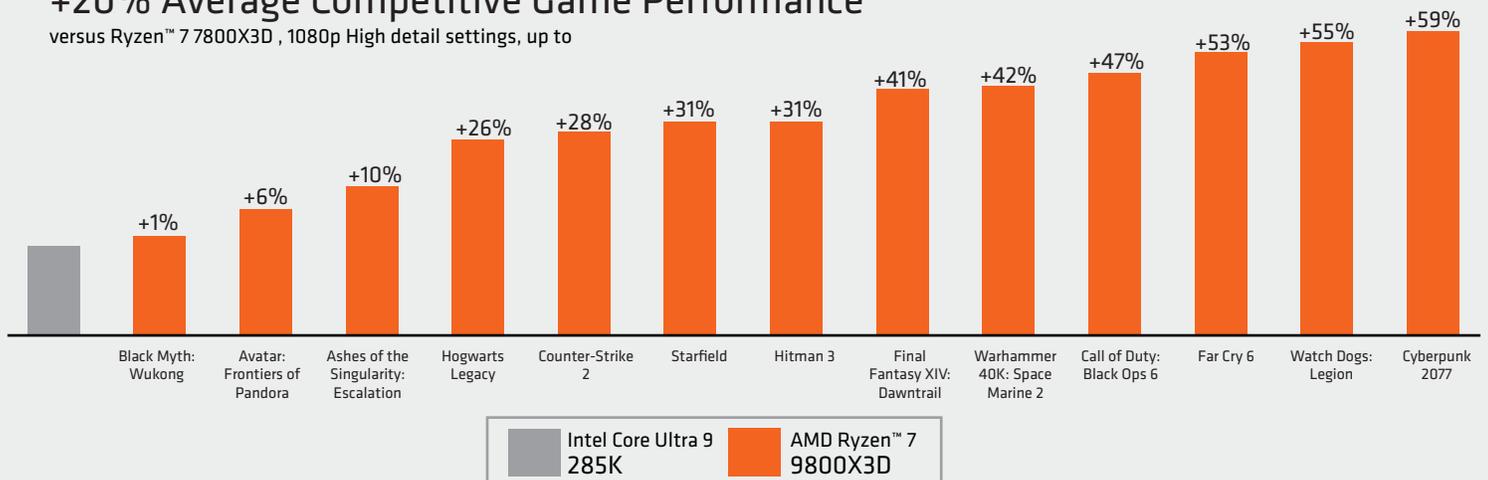
PROCESSOR	CORES/ THREADS	TYPICAL TDP	MAX/BASE FREQUENCY (UP TO)	TOTAL CACHE L2 + L3	PCIe® GEN	UNLOCKED FOR OVERCLOCKING? ^{2,3}	COOLER INCLUDED	BUILT-IN AMD RADEON™ GRAPHICS	COMPETITIVE PROCESSOR
AMD Ryzen™ 7 9800X3D	8/16	120W	5.2 / 4.7 GHz	104 MB	5.0	Yes	No	Yes	Intel Core i9-14900K / Core Ultra 9 285K

THIS CHART ILLUSTRATES RELATIVE PRODUCT POSITIONING ON KEY FUNCTIONALITY AND IS NOT NECESSARILY AN INDICATION OF RELATIVE PERFORMANCE. PERFORMANCE MAY VARY BY APPLICATION.

AMD RYZEN™ 7 9800X3D PROCESSOR⁴

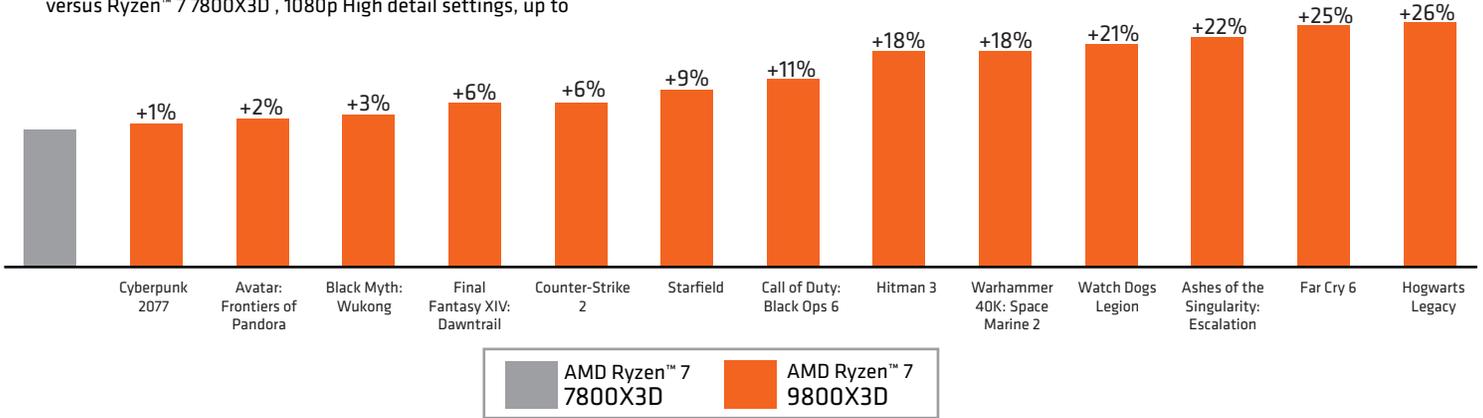
+20% Average Competitive Game Performance

versus Ryzen™ 7 7800X3D, 1080p High detail settings, up to



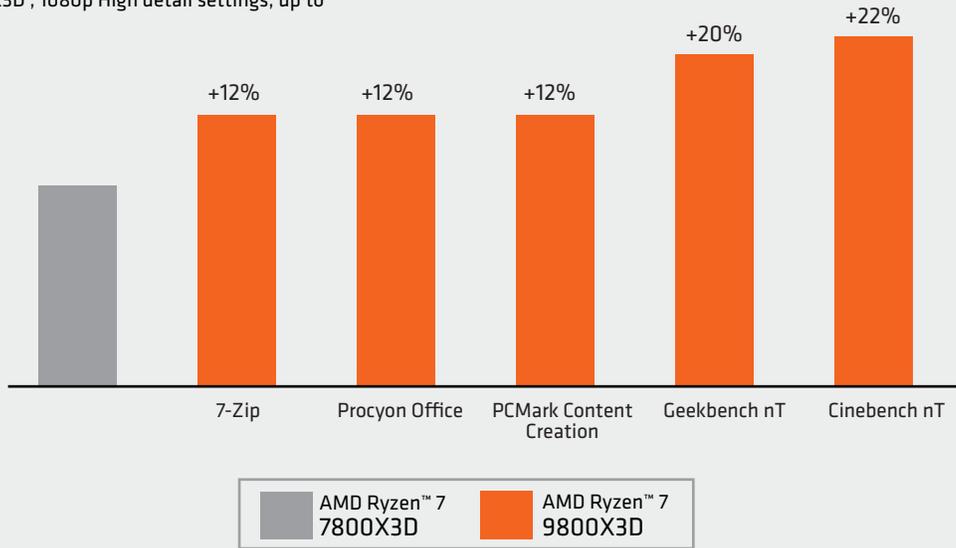
AMD RYZEN™ 7 9800X3D PROCESSOR⁴ +8% Average Generational Game Performance

versus Ryzen™ 7 7800X3D, 1080p High detail settings, up to



AMD RYZEN™ 7 9800X3D PROCESSOR⁵ Generational Productivity Uplift

versus Ryzen™ 7 7800X3D, 1080p High detail settings, up to



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1. The information contained herein is for informational purposes only, and is subject to change without notice. Timelines, roadmaps, and/or product release dates shown in these slides are plans only and subject to change. "Zen 5" is a codename for AMD architecture, and is not a product name. GD-122
 2. Overclocking and/or undervolting AMD processors and memory, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate outside of AMD's published specifications will void any applicable AMD product warranty, even when enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or retailer. Users assume all risks and liabilities that may arise out of overclocking and/or undervolting AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106
 3. AMD's product warranty does not cover damages caused by overclocking, even when overclocking is enabled via AMD hardware and/or software. GD-26
 4. Testing as of October 2024 by AMD Performance Labs on test systems configured as follows: AMD Ryzen 7 7800X3D & 9800X3D system: GIGABYTE X670E AORUS MASTER, Balanced, 2x16GB DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63 (September 27, 2024); Intel Core i9-14900KS system: MSI MEG Z790 ACE MAX (MS-7D86), Balanced, 2x16GB DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63 (September 11, 2024) (Profile=Intel Default) on the following games: Ashes Of The Singularity: Escalation, Assassins Creed Mirage, Assassins Creed Valhalla, Avatar: Frontiers Of Pandora, Baldurs Gate 3, Black Myth: Wukong, Borderlands 3, Counter-Strike 2, CyberPunk 2077, Deus Ex: Mankind Divided, Dirt 5, DOTA 2, F1 2023, F1 2024, Far Cry 6, Final Fantasy 14 Dawntrail, Forza Horizon 5, Ghost Recon Breakpoint, Guardians Of The Galaxy, Hitman 3, Hogwarts Legacy, Horizon Zero Dawn, League of Legends, Metro Exodus, Metro Exodus Enhanced Edition, Middle Earth Shadow of War, Rainbow 6 Siege, Riftbreaker, Shadow Of The Tomb Raider, Spider Man Remastered, Starfield, Strange Brigade, The Callisto Protocol, Tiny Tinas Wonderlands, Total War Warhammer 3, Warhammer Dawn Of War 3, Watch Dogs Legion, World of Tanks encore, Wolfenstein Youngblood. System manufacturers may vary configurations, yielding different results. GNR-21
 5. Testing as of October 2024 by AMD Performance Labs on test systems configured as follows: AMD Ryzen 7 7800X3D & 9800X3D system: GIGABYTE X670E AORUS MASTER, Balanced, 2x16GB DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63 (September 27, 2024) on the following applications: 7-Zip, Procyon Office, PCMark Digital Content Creation, Geekbench nT, Cinebench nT. GNR-20