

AMD RYZEN™ 7000X3D SERIES PROCESSORS

THE ULTIMATE PROCESSOR FOR GAMING

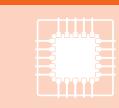
With the new AMD RyzenTM 9 7950X3D, AMD RyzenTM 9 7900X3D, or AMD RyzenTM 7 7800X3D processor you can have confidence in the extreme performance you need to win today's most demanding games. No workload is off limits with the AMD RyzenTM 7000 Series and AMD 3D V-CacheTM technology.

TARGET AUDIENCE



GAMERS WHO CRAVE HIGHER AND SMOOTHER FRAME RATES

CONTENT CREATORS WHO
NEED TIME SAVING
CONNECTIVITY TECHNOLOGIES



USERS THAT WANT STATE-OF-THE-ART TECHNOLOGIES FOR AN EFFORTLESSLY MODERN PC

SELL IT IN 30 SECONDS

THE WORLD'S FASTEST GAMING PROCESSOR²

Relentless performance for gamers who demand the very best with an AMD RyzenTM 9 7950X3D processor and AMD 3D V-Cache $^{\text{TM}}$ technology.

THE FIRST AMD RYZEN™ 9 PROCESSORS WITH AMD 3D V-CACHE™ TECHNOLOGY

The Ryzen 9 processor family has always represented the ultimate performance. With the introduction of the new Ryzen 9 7950X3D and Ryzen 9 7900X3D, AMD combines its top-end processors with cutting-edge 3D V-Cache™ technology. This means that enthusiasts can harness the power of the ultimate gaming and creator performance in one. No workload is off limits with the AMD Ryzen™ 7000 Series and 3D V-Cache™ technology.

UPGRADEABLE FOR YEARS TO COME

AMD Socket AM5 motherboards deliver new features for gamers, from the speed of DDR5 memory and AMD EXPO™ technology¹ to the increased bandwidth with PCle® 5.0, supported through 2025.

PRODUCT SPECIFICATIONS

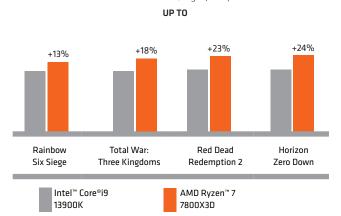
	CORES/ THREADS	TYPICAL TDP	UP TO MAX³/ BASE FREQUENCY	TOTAL CACHE	PCIE® LANES WITH X670 CHIPSET (UP TO)	UNLOCKED FOR OVERCLOCKING⁴?	COMPETITIVE PROCESSOR
AMD RYZEN™ 9 7950X3D	16/32	120W	5.7 / 4.2GHZ	144MB	44/24	PBO & Curve Optimizer	13900K / KS
AMD RYZEN™ 9 7900X3D	12/24	120W	5.6 / 4.4GHZ	140MB	44/24	PBO & Curve Optimizer	13900K
AMD RYZEN™ 7 7800X3D	8/16	120W	5.4 / 4.2GHZ	104MB	44/24	PBO & Curve Optimizer	13700K

This chart illustrates relative product positioning on key functionality and is not necessarily an indication of relative performance. Performance may vary by application.

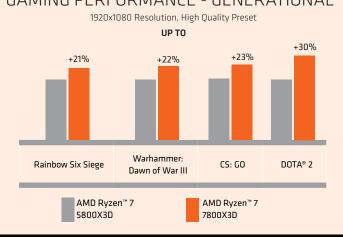


GAMING PERFORMANCE - COMPETITIVE⁵

1920x1080 Resolution, High Quality Preset

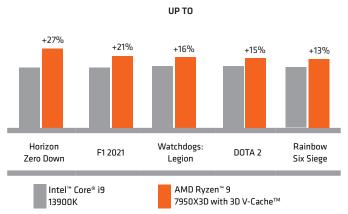


GAMING PERFORMANCE - GENERATIONAL²

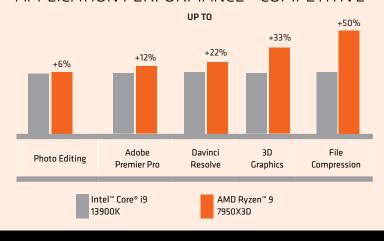


GAMING PERFORMANCE - COMPETITIVE⁶





APPLICATION PERFORMANCE - COMPETITIVE⁵



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- 1. GD-176. Video codec acceleration (including at least the HEVC (H.265), H.264, VP9, and AV1 codecs) is subject to and not operable without inclusion/installation of compatible media players. 2. RPL-39. Testing as of 15 December, 2022, by AMD Performance Labs using the following hardware: AMD Ryzen 77800X3D and Ryzen 97950X3D system: AM5 Reference Motherboard, 32GB DDR5-6000, and Artic Liquid Freezer II cooler. Intel Core 19-13900K system: ASUS Strix Z790-E Gaming Motherboard, 32GB DDR5-6000, and Artic Liquid Freezer II cooler. ALL SYSTEMS configured with an open air test bench, Windows 11, AMD Smart Access Memory technology ON, Virtualization-Based Security (VBS) OFF. Gaming performance calculated with Assassin's Creed: Valhalla, Borderlands 3, CS:GO, Cyberpunk 2077, Deus Ex: Mankind Divided, DOTA 2, F1 2021, Far Cry 6, Final Fantasy XIV, Ghost Recon Breakpoint, Grand Theft Auto V, Hitman 3 Dubai CPU, Hitman 3 Dubai GPU, Metro Exodus, Middle Earth: Shadow of War, Shadow of the Tomb Raider, Strange Brigade, Total War: Three Kingdoms Battle, Warhammer: Dawn of War III, Watchdogs: Legion, Wolfenstein Youngblood (LabX), World of Tanks Encore, Rifbreaker CPU, Red Dead Redemption, 2, Forza Horizon 5, Guardians Of The Galaxy, Tiny Tina's Wonderland, Dirt 5, Civilization VI, Horizon Zero Dawn, Ashes of the Singularity (CPU), Total War Warhammer III (Battle), F1 2022, all at 1080p high settings. System manufacturers may vary configurations, yielding different results.
- 3. GD-150. Max boost for AMD Ryzen processors is the maximum frequency achievable by a single core on the processor running a bursty single-threaded workload. Max boost will vary based on several factors, including, but not limited to: thermal paste; system cooling; motherboard design and BIOS; the latest AMD chipset driver; and the latest OS updates.
- 4. GD-106. 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.
- 5. RPL-37: Testing as of 15 December, 2022, by AMD Performance Labs using the following hardware: AMD AM5 Reference Motherboard with AMD Ryzen 7 7800X3D, G.Skill DDR5-6000 and Artic Liquid Freezer II cooler, versus AMD X570 Reference Motherboard with AMD Ryzen 75800X3D processor, DDR4-3600, and Artic Liquid Freezer II cooler. ALL SYSTEMS configured with an open air test bench, Windows 11, AMD Smart Access Memory technology ON, Virtualization-Based Security (VBS) OFF. Gaming performance calculated with Dota 2, Assassin's Creed: Valhalla, Borderlands 3, CS:GO, Cyberpunk 2077, Deus Ex: Mankind Divided, F1 2021, Far Cry 6, Final Fantasy XIV Shadowbringers, Fortnite, Ghost Recon Breakpoint, Grand Theft Auto V, Hitman 3 Dubai CPU, Hitman 3 Dubai GPU, League of Legends, Metro Exodus, Middle Earth: Shadow of War, Rainbow Six Siege, Shadow of the Tomb Raider, Strange Brigade, Total War: Three Kingdoms Battle, Warhammer: Dawn of War III, Watchdogs: Legion, Wolfenstein Youngblood (LabX), World of Tanks Encore, Rifbreaker CPU, and Red Dead Redemption 2, all at 1080p high settings. System manufacturers may vary configurations, yielding different results.
- 6. RPL-43. Testing as of 15 December, 2022, by AMD Performance Labs using the following hardware: AMD Ryzen 9 7950X3D system: AM5 Reference Motherboard, 32GB DDR5-6000, and Artic Liquid Freezer II cooler. Intel Core i9-13900K system: ASUS Strix Z790-E Gaming Motherboard, 32GB DDR5-6000, and Artic Liquid Freezer II cooler. ALL SYSTEMS configured with an open air test bench, Windows 11, AMD Smart Access Memory technology ON, Virtualization-Based Security (VBS) OFF. App performance calculated with Veracrypt, PassMark 3D Graphics, PugetBench Premiere (live playback score), PugetBench DaVinci Resolve (extended overall), 7zip. System manufacturers may vary configurations, yielding different results

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