

# AMD RYZEN™ 7000X3D SERIES PROCESSORS

## THE ULTIMATE PROCESSOR FOR GAMING

With the new AMD Ryzen™ 9 7950X3D, AMD Ryzen™ 9 7900X3D, or AMD Ryzen™ 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 Ryzen™ 7000 Series and AMD 3D V-Cache™ technology.

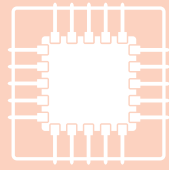
### TARGET AUDIENCE



GAMERS WHO CRAVE  
TO UNLOCK 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 ULTIMATE GAMING PROCESSOR

Relentless performance for gamers who demand the very best with an AMD Ryzen™ 9 7950X3D processor and AMD 3D V-Cache™ 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™ technology<sup>1</sup> to the increased bandwidth with PCIe® 5.0, supported through 2025.

### PRODUCT SPECIFICATIONS

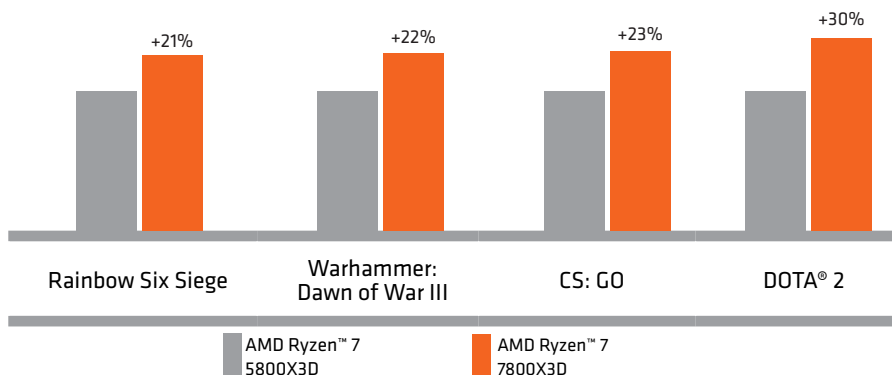
	CORES/ THREADS	TYPICAL TDP	UP TO MAX/BASE FREQUENCY <sup>2</sup>	TOTAL CACHE	PCIe® LANES WITH X670 CHIPSET (UP TO)	UNLOCKED FOR OVERCLOCKING <sup>3</sup> ?	COOLER INCLUDED
AMD RYZEN™ 9 7950X3D	16/32	120W	5.7 / 4.2	144MB	44/24	PBO & Curve Optimizer	No
AMD RYZEN™ 9 7900X3D	12/24	120W	5.6 / 4.4	140MB	44/24	PBO & Curve Optimizer	No
AMD RYZEN™ 7 7800X3D	8/16	120W	5.4 / 4.2	104MB	44/24	PBO & Curve Optimizer	No

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 - GENERATIONAL<sup>4</sup>

1920x1080 Resolution, High Quality Preset

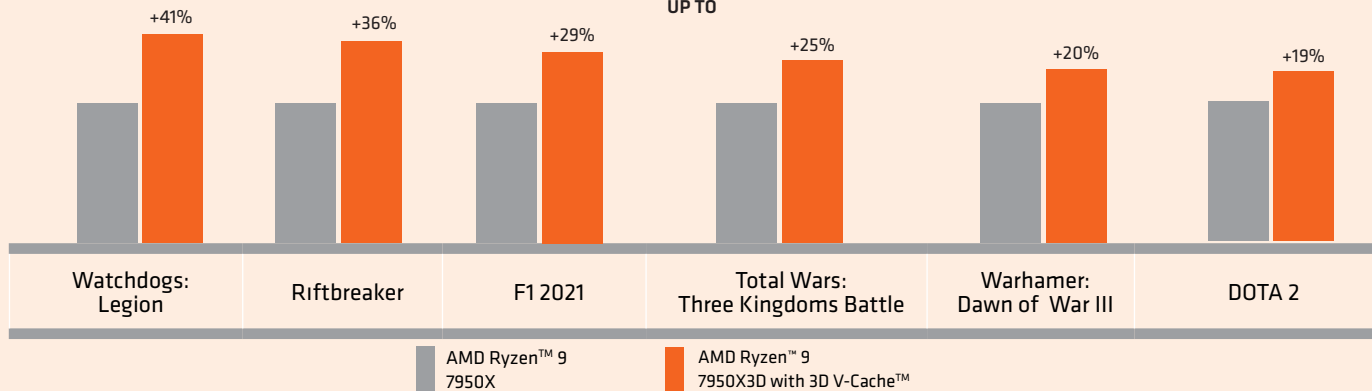
UP TO



## GAMING PERFORMANCE - GENERATIONAL<sup>5</sup>

1080 Ultra Settings

UP TO



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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. 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.

3. 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.

4. 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 Arctic Liquid Freezer II cooler, versus AMD X570 Reference Motherboard with AMD Ryzen™ 7 5800X3D processor, DDR4-3600, and Arctic 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, Riftbreaker CPU, and Red Dead Redemption 2, all at 1080p high settings. System manufacturers may vary configurations, yielding different results.

5. RPL-43. Testing as of 09 February, 2023, by AMD Performance Labs using the following hardware: AMD AM5 Reference Motherboard with AMD Ryzen 9 7950X3D, G.Skill DDR5-6000 and NZXT Kraken X63 cooler, versus ROG STRIX Z790-E GAMING WIFI Motherboard with Ryzen(tm) 9 7950X processor, G.Skill DDR5-6000, and NZXT Kraken X63 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 across 20 select titles, all at 1080p high settings. System manufacturers may vary configurations, yielding different results.

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