AMD RYZEN 9000 Series

HOW TO SELL:

AMD RYZEN™ 9000 HX SERIES PROCESSORS

THE ULTIMATE MOBILE PROCESSOR FOR GAMING & CREATING

MAY 2025

WHO IT'S FOR

Gamers looking for the ultimate mobile gaming experience, combining top-tier AMD CPUs with the latest-gen mobile discrete graphics.

Professional creators who need a processor equipped to run their creative workflows fast & uninterrupted.

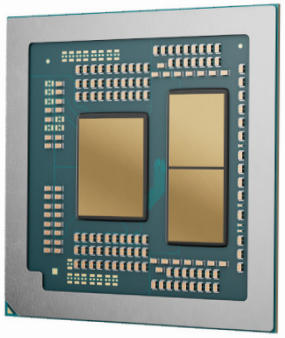
Tech enthusiasts and prosumers who demand powerhouse performance for their laptops.

SELL IT IN 30 SECONDS

LAPTOP GAMING LEADERSHIP with 2nd-gen AMD 3D V-Cache technology, reengineered to deliver maximum performance

NEXT-LEVEL CONTENT CREATION with up to 15% faster performance on average over the previous generation AMD Ryzen™ mobile processor.[FRG-03]

POWERFUL PERFORMANCE AND EFFICIENCY using the same advanced "Zen 5" architecture found in our award-winning AMD Ryzen™ 9 9950X3D desktop processor.



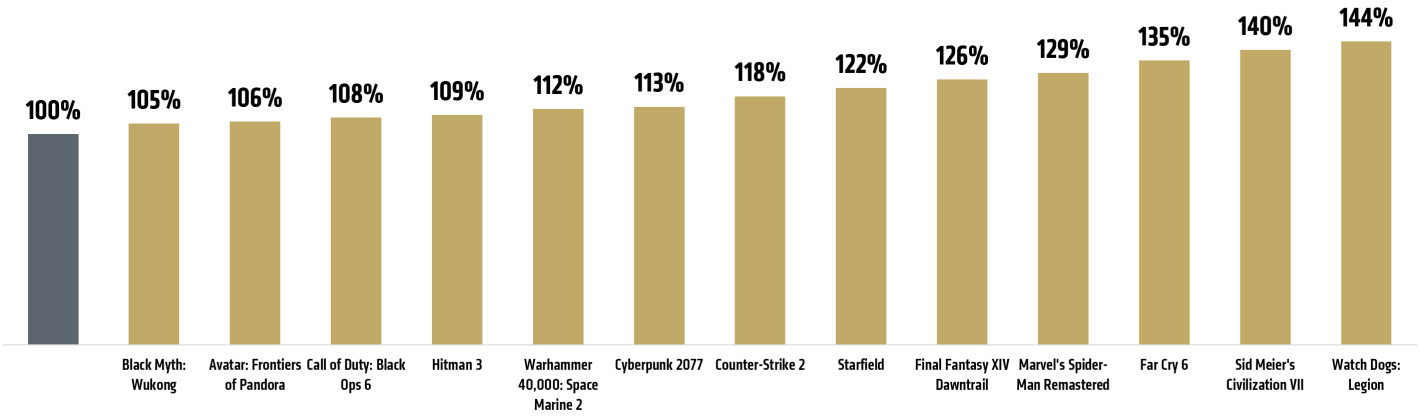
THE ULTIMATE MOBILE PROCESSOR FOR GAMING

AMD Ryzen™ 9 9955HX3D

vs Core Ultra 9 285HX at 1080p High Settings - Gaming

+22%

Average Uplift
vs. Core Ultra 9 285HX
across 35 games



See endnote FRG-07

AMD

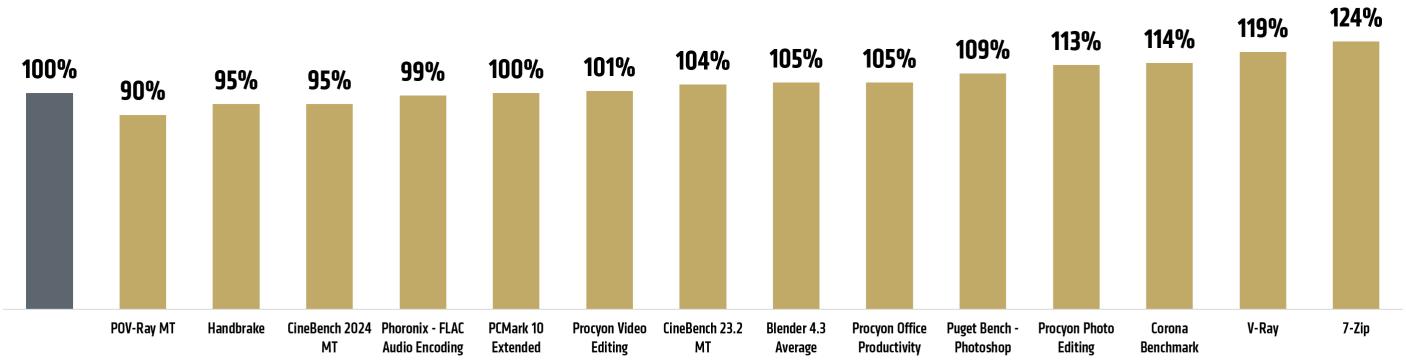
THE PERFECT PROCESSOR FOR ELITE CREATORS

AMD Ryzen™ 9 9955HX3D

vs Core Ultra 9 285HX at 1080p High Settings - Productivity

+5%

Average Uplift
vs. Core Ultra 9 285HX



Intel Core Ultra 9 **285HX** + RTX 5090 AMD Ryzen™ 9 **9955HX3D** + RTX 5090

See endnote FRG-08

SPECIFICATIONS

Model	Cores /Threads	Boost Freq[GD-150] (up to)	Base Freq	TDP	Total Cache	Architecture
AMD Ryzen™ 9 9955HX3D	16/32	5.4 GHz	2.5 GHz	55-75W	144MB	4nm "Zen 5"
AMD Ryzen™ 9 9955HX	16/32	5.4 GHz	2.5 GHz	55-75W	80MB	4nm "Zen 5"
AMD Ryzen™ 9 9850HX	12/24	5.2 GHz	3.0 GHz	45-75W	76MB	4nm "Zen 5"

FOOTNOTES

1. FRG-03: Testing by AMD as of March 2025 on the following systems (best performance mode enabled): (1) MSI Raider A18 notebook equipped with the AMD Ryzen™ 9 9955HX3D, 64GB RAM, and RTX 5090 GPU, versus (2) ASUS ROG Strix equipped with the AMD Ryzen™ 9 7945HX3D, 32GB RAM, and RTX 4090 GPU. Performance uplift based on the average of results from the following benchmarks: PC Mark 10, POV-Ray, Procyon Office productivity, 7-Zip, Phoronix Encode, LM Studio, Handbrake, Blender, Geekbench, Cinebench 2024, and V-Ray. System manufacturers may vary configurations, yielding different results.
2. FRG-07: Testing by AMD as of April 2025 on the following systems (best performance mode enabled): (1) MSI Raider A18 notebook equipped with the AMD Ryzen™ 9 9955HX3D, 64GB RAM, RTX 5090 GPU, and VBS ON versus (2) MSI Raider 18 notebook equipped with the Intel Core Ultra 9 285HX, 64GB RAM, RTX 5090 GPU, and VBS ON. Performance uplift based on the average of results from the following benchmarks: Assassin's Creed Mirage, Assassin's Creed Valhalla, Avatar: Frontiers of Pandora, Baldur's Gate 3, Black Myth: Wukong, Borderlands 3, Call of Duty: Black Ops 6, Counter-Strike 2, Cyberpunk 2077, Dota 2, Dragon Age: The Veilguard, Far Cry 6, Final Fantasy 14: Dawntrail, Forza Horizon 5, Grand Theft Auto V, Hitman 3, Hogwarts Legacy, Horizon Zero Dawn, League of Legends, Marvel Rivals, Marvel's Guardians of the Galaxy, Marvel's Spider-Man Remastered, Metro Exodus, Metro Exodus Enhanced Edition, Monster Hunter Wilds, Shadow of the Tomb Raider, Sid Meier's Civilization VII, Star Wars Outlaws, Starfield, The Callisto Protocol, Tiny Tina's Wonderlands, Tom Clancy's Rainbow Six Siege, Total War: Warhammer III, Warhammer 40,000: Space Marine 2, Watch Dogs: Legion. System manufacturers may vary configurations, yielding different results.
3. FRG-08: Testing by AMD as of April 2025 on the following systems (best performance mode enabled): (1) MSI Raider A18 notebook equipped with the AMD Ryzen™ 9 9955HX3D, 64GB RAM, RTX 5090 GPU, and VBS ON versus (2) MSI Raider 18 notebook equipped with the Intel Core Ultra 9 285HX, 64GB RAM, RTX 5090 GPU, and VBS ON. Performance uplift based on the average of results from the following benchmarks: 7zip, Handbrake, Phoronix Test Suite – FLAC Audio Encoding, Puget Bench – Photoshop, Blender 4.3, CineBench 23.2 Multi-thread, Cinebench 2024 Multi-thread, Corona Benchmark, POV-Ray Multi-thread, VRay, PCMark 10 Extended, Procyon Office Productivity, Procyon Photo Editing, Procyon Video Editing. System manufacturers may vary configurations, yielding different results.
4. GD-150: Boost Clock Frequency is the maximum frequency achievable on the CPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads.

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