AMD RYZEN™ 9 9955HX3D PROCESSOR

INTEL CORE ULTRA 9 285HX

OVERVIEW

THE ULTIMATE MOBILE GAMING PROCESSOR

 Equipped with 2nd gen AMD 3D V-Cache, the Ryzen 9 9955HX3D is second to none when it comes to gaming performance. FRG-07

FASTER PRODUCTIVITY AND CONTENT CREATION

 Do more in less time, with leadership performance in realworld productivity, multitasking, and content creation^{FRG-08}

POWERFUL PERFORMANCE AND EFFICIENCY

 using the same advanced "Zen 5" architecture found in our awardwinning AMD Ryzen™ 9 9950X3D desktop processor.



LEADERSHIP GAMING PERFORMANCEFRG-07

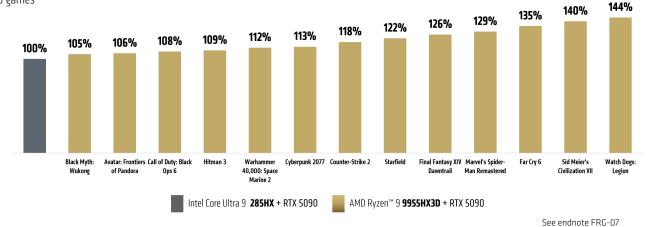
vs Intel:

22% Faster

across 35 games FRG-07

AMD Ryzen[™] 9 9955HX3D

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



ENHANCE YOUR CREATIVE WORKFLOWS AND POWER THROUGH YOUR CREATIVITY FRG-08

vs Intel:

5% Faster

creation across 14 tests^{FRG-08}

1% Faster video Editing (Procyon Video Editing)



5% Faster 3D Modeling (Blender)



9% Faster Photo Editing (Procyon Photo Editing)



5% Faster at Office (Procyon Office)



14% 3D Rendering (Corona Benchmark)



24% Faster File Compression (7-Zip)



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

- FRG-06: Testing by AMD as of April 2025 on an MSI Raider AI8 equipped with the AMD Ryzen "9 9955HX3D and NVIDIA GeForce RTX 5090 with Best Performance enabled versus an ASUS ROG Strix equipped with the AMD Ryzen 9 7945HX3D and NVIDIA GeForce RTX 4090 with Best Performance enabled. Performance uplift based on the average of results from the following benchmarks: Ashes of the Singularity: Escalation, Assassin's Creed: Wilange, Assassin's Creed: Wilandla, Avatar: Frontiers of Pandora, Black Myth: Wukong, Borderlands 3, Counter-Strike 2, Cyberpunk 2077, Deus Ex: Mankind Divided, DOTA 2, F1 24, Far Cry 6, Final Fantasy XIV Dawntrail, Forza Horizon 5, Hittman 3, Hogwarts Legacy, Horizon Zero Dawn, League of Legends, Marvel's Spider-Man Remastered, Metro Exodus; Enhanced Edition, Middle-Earth: Shadow of Vias, Shadow of Vias,

- 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

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