AMD RYZEN[™] 7040HS SERIES PROCESSORS



13TH GEN INTEL CORE PROCESSORS



AMD RYZEN[™] 7040HS PROCESSORS

power elite thin and light laptops for enthusiasts, gamers, and creators.

LEADING PERFORMANCE

Dominant performance across content creation, productivity workloads, and gaming vs. 13th Gen Intel Core processors^{1,2,3,4,5,6.}

FASTEST GRAPHICS IN CLASS

Play games and stay entertained like never before with up to 2X faster graphics than the competition (RyzenTM 7 7840HS vs i7-13700H)³.

AMD RYZEN™ AI BUILT-IN

Be ready to usher in the future with powerful new capabilities from the world's first dedicated AI hardware on a Windows x86 processor⁷

MOST ADVANCED PROCESSOR TECHNOLOGY⁸

Power, performance, and efficiency are at your fingertips with the latest 4nm "Zen 4" architecture from AMD.

FREEDOM TO UNPLUG

Smart power management technology is designed to deliver the longest possible running time unplugged.

AMD RYZEN[™] 9 7940HS PROCESSOR



NEXT-LEVEL CONTENT CREATION¹ (up to)



Ryzen[™] 9 7940HS

Core i9-13900H

HIGH PERFORMANCE GAMING ON THIN & LIGHT LAPTOPS² 100+ FPS on top game titles (at 1080p high settings, up to)



AMD RYZEN[™] 7 7840HS PROCESSOR





AMD RYZEN[™] 5 7640HS PROCESSOR



SPECIFICATIONS

MODEL	MAX BOOST ⁹ (up to)	CORES/THREADS	ARCHITECTURE	GRAPHICS	CACHE	TDP
AMD Ryzen™ 9 7940HS	5.2 GHz	8C / 16T	4nm "Zen 4"	Radeon™ 780M	24MB	35-54W
AMD Ryzen™ 7 7840HS	5.1 GHz	8C / 16T	4nm "Zen 4"	Radeon™ 780M	24MB	35-54W
AMD Ryzen™ 5 7640HS	5.0 GHz	6C / 12T	4nm "Zen 4"	Radeon™ 760M	22Mb	35-54W

FOOTNOTES:

- JUINUES: Testing as of April 2023 by AMD Performance Labs using a 14" Razer Blade laptop with the following configs: (45W Ryzen" 9 7940HS processor, Nvidia GeForce RTX 4070 graphics, 16GB (4x4) RAM, 1TB SSD, Windows 11 Pro) vs a laptop with a 15" display (Intel Core i9-19900H 45W processor, Nvidia GeForce RTX 4070 graphics, 16GB RAM, 1TB SSD, and Windows 11 Pro). Benchmarks tested: 7-Zip, Handbrake, Puget Adobe Premiere Pro, Cimebench R23 nt, PCMark 10, Procyon Office Productivity. PCMark is registered trademark of UL 50utons. Pt manufactures may vary configurations wielding different results. Performance may vary. PHX-47 Based on testing by AMD as of 6/5/2023. Testing results are average PFS in the following games: (byterpurk A277). Assassin's Creed: Valhalla, F1 2021, Final Fantasy XIV. Rainbow Six: Siege, Total War: Warhammer 3, Shadow of the Tomb Raider, Strange Brigade, World of Tanks Encore, Borderlands 3. All tests run in turb mode, 1080 partixe, at high details. System configurations AMD System: Razer Blade 14" laptop, AMD Ryzen 97.940HS processor, Integrated AMD Radem Graphics (2240.03.24 driver), Intel System: ASUS Zephynus MIG laptop, Intel Core i9-13900H processor, All system configurations AMD System: Razer Blade 14" laptop, AMD Ryzen 97.940HS processor, Integrated AMD Radem Graphics (2240.03.24 driver), Intel System ASUS Zephynus MIG laptop, Intel Core i9-13900H processor, Integrated Intel System Configurations AMD System: Razer Blade 14" laptop, AMD Ryzen 97.940HS processor, Integrated Raden 780M graphics, 16GB (4x4) RAM, TIB SSD, VBS DN, and Windows 11 Pro) vs a laptop with a 15" display (Intel Core i7-13700H 45W processor, Integrated Intel Risk graphics, 16GB RAM, TIB SSD, VBS DN, and Windows 11 Pro). Benchmarks tested: 72ip, 3DMark Night Raid, PCMark 10, Procyon Office Productivity. PCMark and 3DMark are registered trademark of UL Solutions. PC manufacturers may vary vary configurations yielding different results. Performance may vary PKX-43 Testing as of Sept 2023 by AMD Performan
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- 4.
- Testing as of Sept 2023 by AMD Performance Labs using a reference board with the following configs: (45W Ryzen[®] 5 7640H5 processor, integrated Radeon 760M graphics, 16GB (4x4) RAM, 1TB SSD, Windows 11 Pro) vs a laptop with a 14^e display (Intel Core IS-13500H 45W processor, integrated Intel Ints verse graphics, 8GB RAM, 1TB SSD, and Windows 11 Pro). Benchmarks tested: Handbrake, LAME MP3, Puget Adobe Photoshop, Puget Adobe Premiere Pro, PCMark 10 DCC. PCMark is a registered trademark of UL Solutions. PC manufacturers may vary configurations yielding different results. Performance may vary. PHX-46 6.
- As of May 2023, AMD Ryzen AI was the first available dedicated AI engine on an x86 Windows processor, where 'dedicated AI engine' is defined as an AI engine that has no function other than to process AI inference models and is part of the x86 processor die. For detailed information, please check: https://www.amd.com/en/products/ryzen-ai. PHX-3. 8
- Based on a smaller node size of the AMD processor for an x86 platform, as of August 2022. CD-203 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. CD-150 9.

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