AMD RYZEN™ 8040 SERIES PROCESSORS

Trusted performance. Amazing battery life. Innovative experiences with Ryzen™ Al.

MAY 2024

WHO IT'S FOR



Creatives, gamers, and everyday users looking for a powerful laptop with trusted performance



Users who want to explore how Al can enhance their everyday PC experience

PREMIUM EXPERIENCES WITH AMD RYZEN™ 8040 SERIES PROCESSORS



TRUSTED, PREMIUM PERFORMANCE

Experience pure speed as you stream, browse, work, and play with trusted performance you can count on



INCREDIBLE BATTERY LIFE

Go further with smart battery management designed to let you work and play unplugged



POWERFUL GRAPHICS

Bring your games and creations to life with powerful AMD Radeon™ 700M graphics built in



THE POWER OF PERSONAL AI

Experience the power of personal AI processing with AMD Ryzen™ AI and unlock new experiences that will change the way you work and play¹

GENERATIONAL PERFORMANCE GAINS

AMD Ryzen™ 9 8945HS vs. Ryzen™ 9 7940HS processor²







33% Faster Audio Encoding



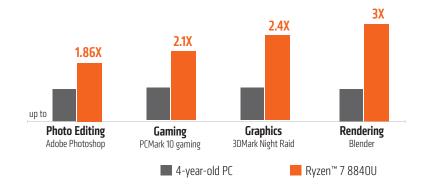
10% Faster at Excel



UPGRADE FROM YOUR 4-YEAR-OLD PC³

Many customers will be buying up from an old laptop that may be lagging, freezing, or struggling to run the latest games. AMD Ryzen™ 8040 Series processors bring the performance uplift they need.

- Do in 10 minutes what used to take 30
- Faster graphics mean more immersive entertainment
- Edit photos in almost half the time
- -Feel real-time responsiveness when multitasking



BRINGING MORE AI POWER WITH AMD RYZEN™ AI



Harness the power of AI with AMD Ryzen™ 8040 Series processors, bringing more power and Al-readiness capabilities.

UP TO 16 NPU TOPS

UP TO **39 TOTAL TOPS** NPU + CPU + GPU

ирто **1.6X** more NPU power vs. previous gen⁴

UP TO 40% FASTER running AI LLM models vs previous gen⁵ (Llama2-78 & Vision Models)

MODELS & SPECS

Up to AMD RDNA™3 "Zen 4" AMD Ryzen™ AI 4nm 5.2GHz Boost⁶ graphics architecture

MODEL	CORES/THREADS	BOOST FREQUENCY ⁶ (UP TO)	CTDP	TOTAL CACHE	GRAPHICS	RYZEN™ AI
AMD Ryzen™ 9 8945HS	8/16	5.2 GHz	35-54W	24MB	AMD Radeon™ 780M	Yes
AMD Ryzen™ 7 8845HS	8/16	5.1 GHz	35-54W	24MB	AMD Radeon™ 780M	Yes
AMD Ryzen™ 7 8840HS	8/16	5.1 GHz	20-30W	24MB	AMD Radeon™ 780M	Yes
AMD Ryzen™ 7 8840U	8/16	5.1 GHz	15-30W	24MB	AMD Radeon™ 780M	Yes
AMD Ryzen™ 5 8645HS	6/12	5.0 GHz	35-54W	22MB	AMD Radeon™ 760M	Yes
AMD Ryzen™ 5 8640HS	6/12	4.9 GHz	20-30W	22MB	AMD Radeon™ 760M	Yes
AMD Ryzen™ 5 8640U	6/12	4.9 GHz	15-30W	22MB	AMD Radeon™ 760M	Yes
AMD Ryzen™ 5 8540U	6/12	4.9 GHz	15-30W	22MB	AMD Radeon™ 740M	No
AMD Ryzen™ 3 8440U	4/8	4.7 GHz	15-30W	12MB	AMD Radeon™ 740M	No

Ryzen" A is defined as the combination of a dedicated Al engine, AMD Radeon" gaphics sengine, and Ryzen processor cores that enable Al capabilities, DEM and ISV enablement is required, and certain AI features may not yet be optimized for Ryzen AI processors, Ryzen AI is compatible with: (a) AMD Ryzen 80006 Series desktop processors except Ryzen 57500L Ryzen 58500L/CE. Please check with your system manufacturer for feature availability prior to pruchase, CD-220b. Hand Parker 18400L Ryzen 3740UL, and Ryzen 98400E. Flammarks 2004at. 7(2p.) Handbrake LAMR, Abobe Premiere, PCHA, And DRyzen 98409E85 processors, interpeated Radeon 7800M gaphics, 160E RAM 7500MHz, Samsung 980 Por 118 NIVMe, Windows 1 Pro. Scribbrake 1940 Processors, interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Samsung 980 Por 118 NIVMe, Windows 1 Pro. Scribbrake 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Samsung 980 Por 118 NIVMe, Windows 1 Pro. Scribbrake 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Samsung 980 Por 118 NIVMe, Windows 1 Pro. Scribbrake 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Samsung 980 Por 118 NIVMe, Windows 1 Pro. Scribbrake 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Samsung 980 Por 118 NIVMe, Windows 1 Pro. Scribbrake 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Samsung 980 Por 118 NIVMe, Windows 1 Pro. Scribbrake 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors interpeated Radeon 780M gaphics, 160E RAM 7500MHz, Amsung 1940 Processors

[&]quot;Zen 4" is a codename only and not an AMD product name. ©2023 Advanced Micro Devices, Inc. ©2023 Advanced Micro Devices, Inc. Old rights reserved. AMD, the AMD Arrow logo, and combinations thereof are trademarks of Advanced Micro Devices, Inc. Other names are for informational purposes only and may be trademarks of their respective owner May 2024 PID#242681050