AMD RYZEN™ 8040 SERIES PROCESSORS
Trusted performance. Amazing battery life. Innovative experiences with Ryzen™ AI.

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 AI 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

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

AMD RYZEN AI
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 play[1]

GENERATIONAL PERFORMANCE GAINS

AMD Ryzen™ 9 8945HS vs. Ryzen™ 9 7940HS processor[2]

Up to **10% Faster** Graphics

Up to **36% Faster** Video Encoding

Up to **33% Faster** Audio Encoding
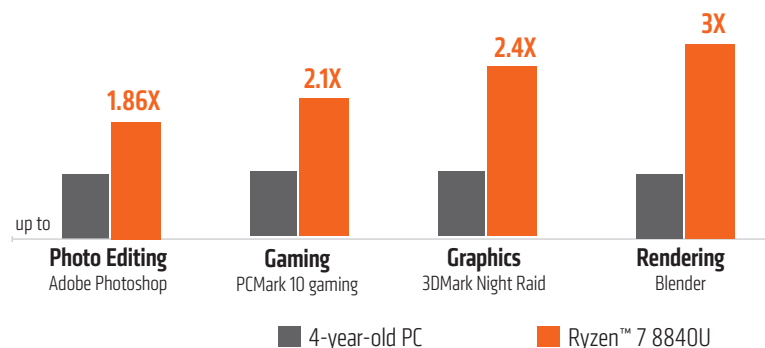
Up to **10% Faster** at Excel
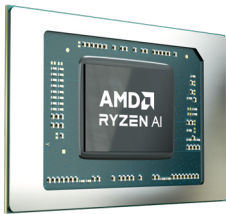
Up to **6% Faster** at PowerPoint

UPGRADE FROM YOUR 4-YEAR-OLD PC[3]

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

up to

	1.86X	2.1X	2.4X	3X
	Photo Editing Adobe Photoshop	**Gaming** PCMark 10 gaming	**Graphics** 3DMark Night Raid	**Rendering** Blender

■ 4-year-old PC   ■ Ryzen™ 7 8840U

together we advance_

BRINGING MORE AI POWER WITH AMD RYZEN™ AI

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

UP TO **16 NPU TOPS**

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

UP TO **1.6X** more NPU power vs. previous gen[4]

UP TO **40% FASTER** running AI LLM models vs previous gen[5] (Llama2-7B & Vision Models)

MODELS & SPECS

4nm	"Zen 4"	AMD RDNA™ 3 graphics architecture	Up to 5.2GHz Boost[6]	AMD Ryzen™ AI

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