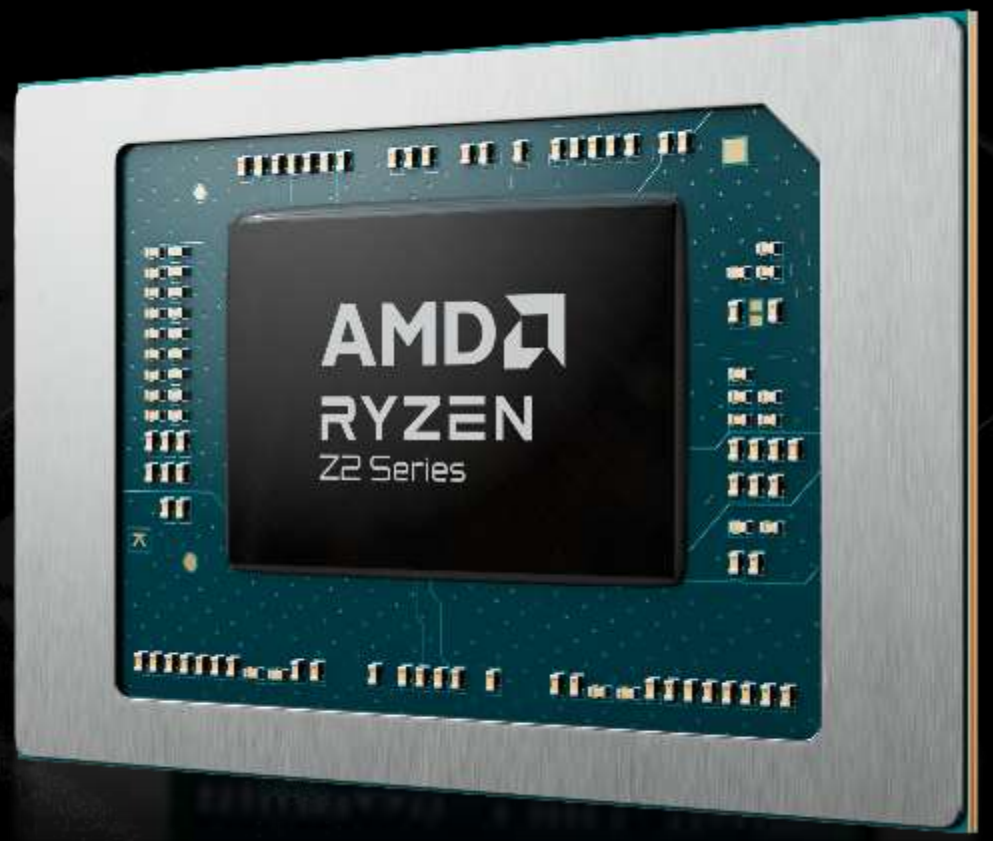
AMD Ryzen™ Z2 Series Processors

June 2025

AMD
together we advance_gaming



AMD RYZEN Z2 Series

For Elite Handheld PC Gaming

EXHILARATING SPEED

Leave no game behind with powerful processors built to accelerate your handheld gaming experience and deliver incredible portable performance.

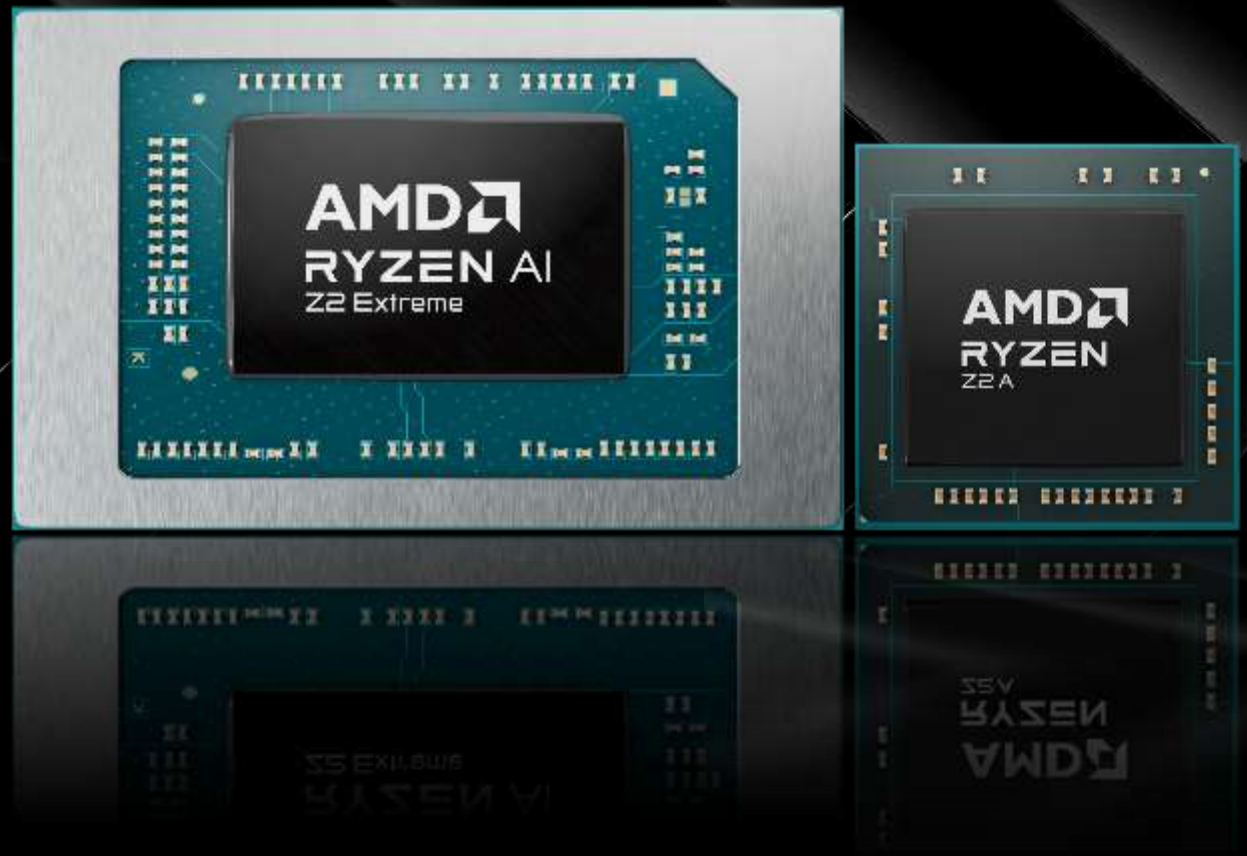
GAME FOR HOURS

Stay in the game and stay unplugged, so you can enjoy your favorite PC games wherever you roam.

BREATHTAKING GRAPHICS

Bring your games to life with powerful AMD Radeon™ graphics for unbelievable visual fidelity and full immersion in your favorite worlds.

Introducing
The New
AMD Ryzen™ Z2
Series Processors



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AMD Ryzen™ AI Z2 Extreme

Ultimate Performance
Elite Handheld PC Gaming
with AI

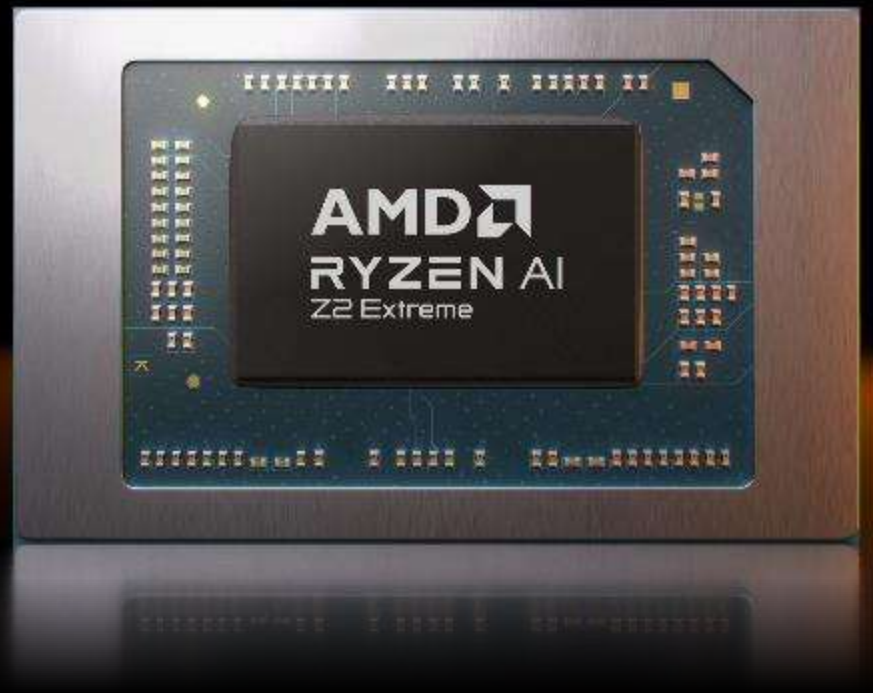
16 GPU Cores
(AMD RDNA™ 3.5)

8 CPU Cores / 16 Threads
("Zen 5")

15-35W
Configurable TDP

50 AI TOPS
NPU Peak TOPS

Copilot+PC



ENDNOTES GD-220E, GD-243

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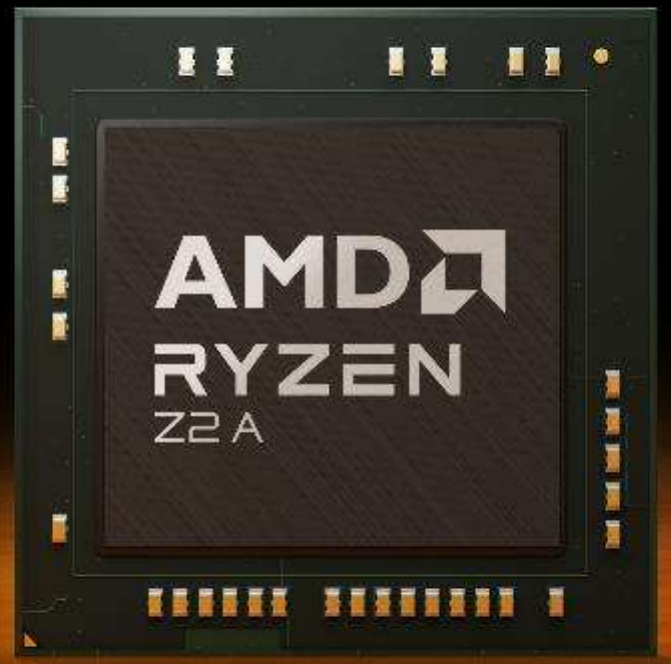
AMD Ryzen™ Z2 A

Long-Lasting Handheld PC Gaming

8 GPU Cores
(AMD RDNA™ 2)

4 CPU Cores / 8 Threads
("Zen 2")

6-20W
Configurable TDP



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AMD RYZEN™ Z2 Series Processors

Ultimate PC Gaming Experiences for Handhelds

AMD Ryzen™ AI Z2 Extreme Ultimate Performance Elite Handheld PC Gaming with AI	16 GPU Cores (AMD RDNA™ 3.5)	8 CPU Cores / 16 Threads ("Zen 5")	LPDDR5X-8000 Memory Speed (up to)	15-35W Configurable TDP	50 AI TOPS NPU Peak TOPS	NEW
AMD Ryzen™ Z2 Extreme Ultimate Performance Elite Handheld PC Gaming	16 GPU Cores (AMD RDNA™ 3.5)	8 CPU Cores / 16 Threads ("Zen 5")	LPDDR5X-8000 Memory Speed (up to)	15-35W Configurable TDP		
AMD Ryzen™ Z2 High Performance Handheld PC Gaming	12 GPU Cores (AMD RDNA™ 3)	8 CPU Cores / 16 Threads ("Zen 4")	LPDDR5X-7500 Memory Speed (up to)	15-30W Configurable TDP		
AMD Ryzen™ Z2 Go (Lenovo Exclusive) Performance Handheld PC Gaming	12 GPU Cores (AMD RDNA™ 2)	4 CPU Cores / 8 Threads ("Zen 3+")	LPDDR5-6400 Memory Speed (up to)	15-30W Configurable TDP		
AMD Ryzen™ Z2 A Long-Lasting Handheld PC Gaming	8 GPU Cores (AMD RDNA™ 2)	4 CPU Cores / 8 Threads ("Zen 2")	LPDDR5-6400 Memory Speed (up to)	6-20W Configurable TDP	NEW	

ENDNOTES GD-220E, GD-243

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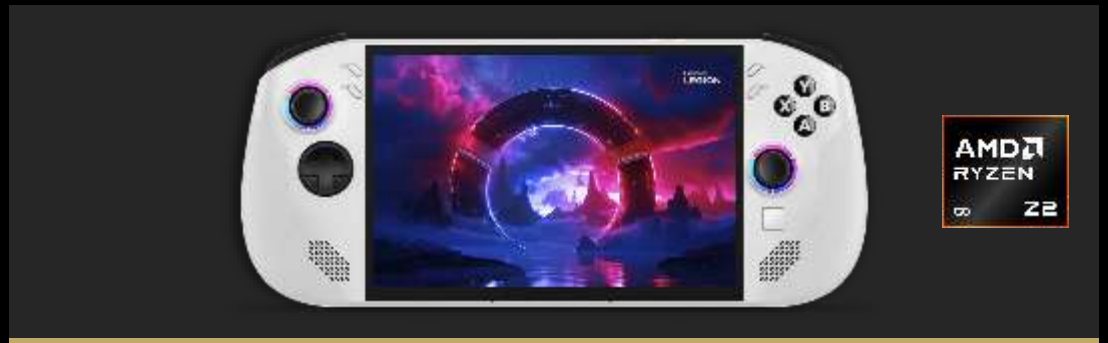
AMD RYZEN Z2 Series

Leadership Handheld PC Gaming

ROG Xbox Ally X

MSI Claw A8

ROG Xbox Ally



Lenovo Legion Go S

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General Disclaimers & Endnotes

GD-220E: Ryzen ™ AI is defined as the combination of a dedicated AI engine, AMD Radeon ™ graphics engine, and Ryzen processor cores that enable AI capabilities. OEM 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 7040 and 8040 Series processors and Ryzen PRO 7040/8040 Series processors except Ryzen 5 7540U, Ryzen 5 8540U, Ryzen 3 7440U, and Ryzen 3 8440U processors; (b) AMD Ryzen AI 300 Series processors and AMD Ryzen AI PRO 300 Series processors; (c) all AMD Ryzen 8000G Series desktop processors except the Ryzen 5 8500G/GE and Ryzen 3 8300G/GE; (d) AMD Ryzen 200 Series processors and Ryzen PRO 200 Series processors except Ryzen 5 220 and Ryzen 3 210; and (e) AMD Ryzen AI Max Series processors and Ryzen AI PRO Max Series processors. Please check with your system manufacturer for feature availability prior to purchase. GD-220e.

GD-243: Trillions of Operations per Second (TOPS) for an AMD Ryzen processor is the maximum number of operations per second that can be executed in an optimal scenario and may not be typical. TOPS may vary based on several factors, including the specific system configuration, AI model, and software version. GD-243.