

2025 AMD Ryzen™ Processors for Consumer



AMD Ryzen™ 9000HX Series Processors

'Fire Range'

Badge (for all systems)	Model	Cores /Threads	Frequency Boost ¹ (up to)/ Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	Compared To ²
	AMD Ryzen™ 9 9955X3D	16 / 32	Up to 5.4 / 2.5 GHz	144 MB	AMD Radeon™ 610M Graphics	4nm	55-75W	Zen 5	Intel Core Ultra 9 285HX
	AMD Ryzen™ 9 9955HX	16 / 32	Up to 5.4 / 2.5 GHz	80 MB	AMD Radeon™ 610M Graphics	4nm	55-75W	Zen 5	Intel Core Ultra 9 285HX Intel Core Ultra 9 275HX
	AMD Ryzen™ 9 9850HX	12 / 24	Up to 5.2 / 3.0 GHz	76 MB	AMD Radeon™ 610M Graphics	4nm	45-75W	Zen 5	Intel Core Ultra 9 275HX Intel Core Ultra 7 265HX



AMD Ryzen™ AI Max Series Processors

'Strix Halo'



Badge (for all systems)	Model	Cores /Threads	Frequency Boost¹ / Base	Cache L2 + L3	Graphics / CUs	Node	TDP	Architecture	AMD Ryzen™ AI³	NPU TOPS⁴ (up to)	Compared To²
	AMD Ryzen™ AI Max+ 395	16 / 32	Up to 5.1 GHz / 3.0 GHz	80 MB	AMD Radeon™ 8060S / 40 CUs	4nm	45W-120W	Zen 5	✓	50 TOPS	CP+ Intel Core Ultra 9 288V
											non-CP+ Intel Core Ultra 9 285H + NV RTX 5060/5070
											Apple M4 Pro
	AMD Ryzen™ AI Max 390	12 / 24	Up to 5.0 GHz / 3.2 GHz	76 MB	AMD Radeon™ 8050S / 32 CUs	4nm	45W-120W	Zen 5	✓	50 TOPS	CP+ Intel Core Ultra 9 288V
											non-CP+ Intel Core Ultra 9 285H + NV RTX 5060
											Apple M4 Pro
	AMD Ryzen™ AI Max 385	8 / 16	Up to 5.0 GHz / 3.6 GHz	40 MB	AMD Radeon™ 8050S / 32 CUs	4nm	45W-120W	Zen 5	✓	50 TOPS	CP+ Intel Core Ultra 7 258V
											non-CP+ Intel Core Ultra 7 255H + NV RTX 5060
											Apple M4

AMD

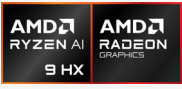
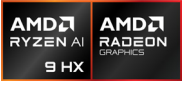
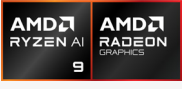
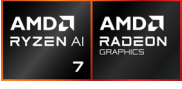
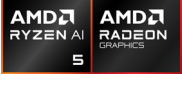
RYZEN AI

300 Series

AMD Ryzen™ AI 300 Series Processors

'Strix' and 'Krackan'

Copilot+PC

Badge (systems with dGPU)	Badge (systems with iGPU only)	Model	Cores / Threads	Frequency Boost¹/ Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	AMD Ryzen™ AI³	NPU TOPS⁴ (up to)	Compared To²
		AMD Ryzen™ AI 9 HX 375	12 / 24	Up to 5.1 GHz / 2.0 GHz	36 MB	AMD Radeon™ 890M	4nm	15-54W	Zen 5	✓	55 TOPS	CP+ Intel Core Ultra 9 288V Snapdragon X Elite
												no CP+ Intel Core Ultra 9 285H
												Apple M4
		AMD Ryzen™ AI 9 HX 370	12 / 24	Up to 5.1 GHz / 2.0 GHz	36 MB	AMD Radeon™ 890M	4nm	15-54W	Zen 5	✓	50 TOPS	CP+ Intel Core Ultra 9 288V Snapdragon X Elite
												no CP+ Intel Core Ultra 9 285H
												Apple M4
		AMD Ryzen™ AI 9 365	10 / 20	Up to 5.0 GHz / 3.3 GHz	34 MB	AMD Radeon™ 880M	4nm	15-54W	Zen 5	✓	50 TOPS	CP+ Intel Core Ultra 9 288V Snapdragon X Elite
												no CP+ Intel Core Ultra 9 285H
												Apple M4
		AMD Ryzen™ AI 7 350	8 / 16	Up to 5.0 GHz / 2.0 GHz	24 MB	AMD Radeon™ 860M	4nm	15-54W	Zen 5	✓	50 TOPS	CP+ Intel Core Ultra 7 256V/258V Snapdragon X Plus
												no CP+ Intel Core Ultra 7 255H/U
												Apple M4
		AMD Ryzen™ AI 5 340	6 / 12	Up to 4.8 GHz / 2.0 GHz	22 MB	AMD Radeon™ 840M	4nm	15-54W	Zen 5	✓	50 TOPS	CP+ Intel Core Ultra 5 226V/228V Snapdragon X Plus
												no CP+ Intel Core Ultra 5 225H/U



AMD Ryzen™ 200 Series Processors

'Hawk Point'

Badge (systems with dgpu)	Badge (systems with igpu only)	Model	Cores / Threads	Frequency Boost¹/Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	AMD Ryzen™ AI³	NPU TOPS⁴ (up to)	Compared To²
		AMD Ryzen™ 9 270	8 / 16	Up to 5.2 GHz / 4.0 GHz	24 MB	AMD Radeon™ 780M	4nm	35-54W	Zen 4	✓	16 TOPS	Intel Core Ultra 9 185H Apple M3
		AMD Ryzen™ 7 260	8 / 16	Up to 5.1 GHz / 3.8 GHz	24 MB	AMD Radeon™ 780M	4nm	35-54W	Zen 4	✓	16 TOPS	Intel Core 7 250H (45W) Intel Core Ultra 7 155H (28W) Apple M3
		AMD Ryzen™ 7 250	8 / 16	Up to 5.1 GHz / 3.3 GHz	24 MB	AMD Radeon™ 780M	4nm	15-30W	Zen 4	✓	16 TOPS	Intel Core Ultra 7 155H Intel Core Ultra 7 155U Apple M3
		AMD Ryzen™ 5 240	6 / 12	Up to 5.0 GHz / 4.3 GHz	22 MB	AMD Radeon™ 760M	4nm	35-54W	Zen 4	✓	16 TOPS	Intel Core 5 220H (45W) Intel Core Ultra 5 125H (28W)
		AMD Ryzen™ 5 230	6 / 12	Up to 4.9 GHz / 3.5 GHz	22 MB	AMD Radeon™ 760M	4nm	15-30W	Zen 4	✓	16 TOPS	Intel Core Ultra 5 125H Intel Core Ultra 5 125U
		AMD Ryzen™ 5 220	6 / 12	Up to 4.9 GHz / 3.2 GHz	22 MB	AMD Radeon™ 740M	4nm	15-30W	Zen 4	N/A	N/A	Intel Core Ultra 5 125H Intel Core Ultra 5 125U
		AMD Ryzen™ 3 210	4 / 8	Up to 4.7 GHz / 3.0 GHz	12 MB	AMD Radeon™ 740M	4nm	15-30W	Zen 4	N/A	N/A	Intel Core 3 100U



AMD Ryzen™ 8000HX Series Processors

'Dragon Range-R'

Badge (for all systems)	Model	Cores /Threads	Frequency Boost ¹ /Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	Compared To ²
	AMD Ryzen™ 9 8945HX	16 / 32	Up to 5.4 / 2.5 GHz	80 MB	AMD Radeon™ 610M Graphics	5nm	55-75W	Zen 4	Intel Core Ultra 9 275HX Intel Core i9-14900HX
	AMD Ryzen™ 9 8940HX	16 / 32	Up to 5.3 / 2.4 GHz	80 MB	AMD Radeon™ 610M Graphics	5nm	55-75W	Zen 4	Intel Core Ultra 9 275HX Intel Core i9-14900HX Intel Core i9-14700HX
	AMD Ryzen™ 7 8840HX	12 / 24	Up to 5.1 / 2.9 GHz	76 MB	AMD Radeon™ 610M Graphics	5nm	45-75W	Zen 4	Intel Core Ultra 7 265HX Intel Core i7-14700HX Intel Core i7-14650HX
	AMD Ryzen™ 7 8745HX	8 / 16	Up to 5.1 / 3.6 GHz	40 MB	AMD Radeon™ 610M Graphics	5nm	45-75W	Zen 4	Intel Core i7-14650HX Intel Core i5-14500HX



AMD Ryzen™ 8040 Series Processors

'Hawk Point'

Badge (systems with dgpu)	Badge (systems with igpu only)	Model	Cores / Threads	Frequency Boost¹/ Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	AMD Ryzen™ AI³	NPU TOPS⁴ (up to)	Compared To²
		AMD Ryzen™ 9 8945HS	8 / 16	Up to 5.2 / 4.0 GHz	24 MB	AMD Radeon™ 780M	4nm	35-54W	Zen 4	✓	16 TOPS	Intel Core Ultra 9 185H Apple M3
		AMD Ryzen™ 7 8845HS	8 / 16	Up to 5.1 / 3.8 GHz	24 MB	AMD Radeon™ 780M	4nm	35-45W	Zen 4	✓	16 TOPS	Intel Core i7-13700H (45W) Intel Core Ultra 7 155H (28W) Apple M3
		AMD Ryzen™ 7 8840HS	8 / 16	Up to 5.1 / 3.3 GHz	24 MB	AMD Radeon™ 780M	4nm	20-30W	Zen 4	✓	16 TOPS	Intel Core Ultra 7 155H Apple M3
		AMD Ryzen™ 7 8840U	8 / 16	Up to 5.1 / 3.3 GHz	24 MB	AMD Radeon™ 780M	4nm	15-30W	Zen 4	✓	16 TOPS	Intel Core Ultra 7 155H Intel Core Ultra 7 155U Apple M3
		AMD Ryzen™ 5 8645HS	6 / 12	Up to 5.0 / 4.3 GHz	22 MB	AMD Radeon™ 760M	4nm	35-54W	Zen 4	✓	16 TOPS	Intel Core i5-13500H (45W) Intel Core Ultra 5 125H (28W)
		AMD Ryzen™ 5 8640HS	6 / 12	Up to 4.9 / 3.5 GHz	22 MB	AMD Radeon™ 760M	4nm	20-30W	Zen 4	✓	16 TOPS	Intel Core Ultra 5 125H
		AMD Ryzen™ 5 8640U	6 / 12	Up to 4.9 / 3.5 GHz	22 MB	AMD Radeon™ 760M	4nm	15-30W	Zen 4	✓	16 TOPS	Intel Core Ultra 5 125H Intel Core Ultra 5 125U
		AMD Ryzen™ 5 8540U	6 / 12	Up to 4.9 / 3.5 GHz	22 MB	AMD Radeon™ 740M	4nm	15-30W	Zen 4	N/A	N/A	Intel Core Ultra 5 125H Intel Core Ultra 5 125U
		AMD Ryzen™ 3 8440U	4 / 8	Up to 4.7 / 3.3 GHz	12 MB	AMD Radeon™ 740M	4nm	15-30W	Zen 4	N/A	N/A	Intel Core 3 100U Intel Core i3-1315U

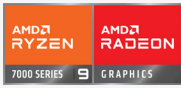
AMD

RYZEN

7000 Series

AMD Ryzen™ 7040 Series Processors

'Phoenix Point'

Badge (systems with dgpu)	Badge (systems with igpu only)	Model	Cores /Threads	Frequency Boost¹/ Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	AMD Ryzen™ AI³	NPU TOPS⁴ (up to)	Compared To²
		AMD Ryzen™ 9 7940HS	8 / 16	5.2 GHz / 4.0 GHz	24 MB	AMD Radeon™ 780M Graphics	4nm	35-54W	Zen 4	✓	10 TOPS	Intel Core i9-13900H
		AMD Ryzen™ 7 7840HS	8 / 16	5.1 GHz / 3.8 GHz	24 MB	AMD Radeon™ 780M Graphics	4nm	35-54W	Zen 4	✓	10 TOPS	Intel Core i7-13700H
		AMD Ryzen™ 7 7840U	8 / 16	5.1 GHz / 3.3 GHz	24 MB	AMD Radeon™ 780M Graphics	4nm	15-30W	Zen 4	✓	10 TOPS	Intel Core i7-1360P Intel Core i7-1355U
		AMD Ryzen™ 5 7640HS	6 / 12	5.0 GHz / 4.3 GHz	22 MB	AMD Radeon™ 760M Graphics	4nm	35-54W	Zen 4	✓	10 TOPS	Intel Core i5-13500H
		AMD Ryzen™ 5 7640U	6 / 12	4.9 GHz / 3.5 GHz	22 MB	AMD Radeon™ 760M Graphics	4nm	15-30W	Zen 4	✓	10 TOPS	Intel Core i5-1340P Intel Core i5-1335U
		AMD Ryzen™ 5 7545U	6 / 12	4.9 GHz / 3.2 GHz	22 MB	AMD Radeon™ 740M Graphics	4nm	15-30W	Zen 4	N/A	N/A	Intel Core i5-1340P Intel Core i5-1335U
		AMD Ryzen™ 5 7540U	6 / 12	4.9 GHz / 3.2 GHz	22 MB	AMD Radeon™ 740M Graphics	4nm	15-30W	Zen 4	N/A	N/A	Intel Core i5-1340P Intel Core i5-1335U
		AMD Ryzen™ 3 7440U	4 / 8	4.7 GHz / 3.0 GHz	12 MB	AMD Radeon™ 740M Graphics	4nm	15-30W	Zen 4	N/A	N/A	Intel Core i3-1325P Intel Core i3-1315U



AMD Ryzen™ 7035 Series Processors

'Rembrandt-R'

Badge (systems with dGPU)	Badge (systems with iGPU only)	Model	Cores /Threads	Frequency Boost¹/Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	Compared To²
		AMD Ryzen™ 7 7735HS	8 / 16	Up to 4.75 / 3.2 GHz	20 MB	AMD Radeon™ 680M	6nm	35-54W	Zen 3+	Intel Core 7 250H Intel core 7 240H
		AMD Ryzen™ 7 7435HS	8 / 16	Up to 4.5 / 3.1 GHz	20 MB	N/A (discrete graphics required)	6nm	35-54W	Zen 3+	Intel Core 7 250H Intel core 7 240H
		AMD Ryzen™ 7 7735U	8 / 16	Up to 4.75 / 2.7 GHz	20 MB	AMD Radeon™ 680M	6nm	15-30W	Zen 3+	Intel Core 7 250U
		AMD Ryzen™ 5 7535HS	6 / 12	Up to 4.55 / 3.3 GHz	19 MB	AMD Radeon™ 660M	6nm	35-54W	Zen 3+	Intel Core 5 220H Intel Core 5 210H
		AMD Ryzen™ 5 7235HS	4 / 8	Up to 4.2 / 3.2 GHz	10 MB	N/A (discrete graphics required)	6nm	35-54W	Zen 3+	Intel Core 5 220H Intel Core 5 210H
		AMD Ryzen™ 5 7535U	6 / 12	Up to 4.55 / 2.9 GHz	19 MB	AMD Radeon™ 660M	6nm	15-30W	Zen 3+	Intel Core 5 220U
		AMD Ryzen™ 3 7335U	4 / 8	Up to 4.3 / 3.0 GHz	10 MB	AMD Radeon™ 660M	6nm	15-30W	Zen 3+	Intel Core 3 100U

AMD

RYZEN

7000 Series

AMD Ryzen™ 7030 Series Processors

'Barcelo-R'

Badge (systems with dgpu)	Badge (systems with igpu only)	Model	Cores /Threads	Frequency Boost¹/Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	Compared To²
		AMD Ryzen™ 7 7730U	8 / 16	Up to 4.5 / 2.0 GHz	20 MB	AMD Radeon™ Graphics	7nm	15W	Zen 3	Intel Core i7-1255U
		AMD Ryzen™ 5 7530U	6 / 12	Up to 4.5 / 2.0 GHz	19 MB	AMD Radeon™ Graphics	7nm	15W	Zen 3	Intel Core i5-1235U
		AMD Ryzen™ 5 7430U	6 / 12	Up to 4.3 / 2.3 GHz	19 MB	AMD Radeon™ Graphics	7nm	15W	Zen 3	Intel Core i5-1235U
		AMD Ryzen™ 3 7330U	4 / 8	Up to 4.3 / 2.3 GHz	10 MB	AMD Radeon™ Graphics	7nm	15W	Zen 3	Intel Core i3-1215U

AMD

RYZEN

7000 Series

AMD Ryzen™ 7020 Series Processors

'Mendocino'

Badge (systems with dgpu)	Badge (systems with igpu only)	Model	Cores /Threads	Frequency Boost¹/Base	Cache L2 + L3	Graphics	Node	TDP	Architecture	Compared To²
		AMD Ryzen™ 5 7520U	4 / 8	Up to 4.3 / 2.8 GHz	6 MB	AMD Radeon™ 610M Graphics	6nm	15W	Zen 2	Intel Core i5-1235U
		AMD Ryzen™ 3 7320U	4 / 8	Up to 4.1 / 2.4 GHz	6 MB	AMD Radeon™ 610M Graphics	6nm	15W	Zen 2	Intel Core i3-N305 Intel Core 3 N350/355 Intel N250 /150

1. Max boost for AMD Ryzen and Athon 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. GD-150

2. This chart illustrates competitive product positioning, is not necessarily an indication of relative performance and may not be to scale for any performance metric. GD-75

3. 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.

4. 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.

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