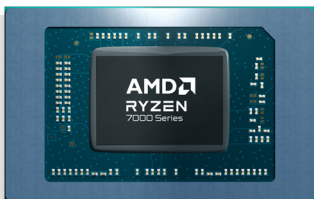


AMD Ryzen™ 7000 Series Processors with Radeon™ Graphics



PURE SPEED

Enjoy astonishing performance and pure speed with AMD Ryzen™ 7000 Series processors.

FREEDOM TO UNPLUG

Smart battery management maximizes your running time, so you can work and play unplugged.

EXPERIENCE INNOVATION

Designed with innovative technologies to enhance video, audio, and everyday tasks for an elevated experience.

AMD RYZEN™ 7000 SERIES PROCESSORS

	7020 SERIES	7030 SERIES	7035 SERIES	7040 SERIES	7045 SERIES
AMD RYZEN™ 9 PROCESSOR THE ULTIMATE PROCESSOR FOR EXTREME PERFORMANCE				ELITE ULTRATHIN / THIN & LIGHT GAMING <i>U / HS</i>	EXTREME GAMING & CREATOR <i>HX / HX3D</i>
AMD RYZEN™ 7 PROCESSOR THRILLING SPEED WITH INCREDIBLE BATTERY LIFE		MAINSTREAM THIN & LIGHT <i>U</i>	PREMIUM THIN & LIGHT <i>U / HS</i>		
AMD RYZEN™ 5 PROCESSOR THE SPEED YOU NEED, AT HOME OR ON THE GO	EVERYDAY COMPUTING <i>U</i>			STEP UP TO high performance and esports gaming	STEP UP TO powerful performance, incredible battery life and casual AAA gaming
AMD RYZEN™ 3 PROCESSOR PERFORMANCE ON-THE-GO STARTS HERE		START HERE for responsive performance and great battery life			

1. 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 except Ryzen 5 7540U, Ryzen 5 8540U, Ryzen 3 7440U, and Ryzen 3 8440U processors; and (b) all AMD Ryzen 8000G Series desktop processors except the Ryzen 5 8500G/GE and Ryzen 3 8300G/GE. Please check with your system manufacturer for feature availability prior to purchase. GD-220b.

2. Testing by AMD performance labs as of Jan 2024 in the following game titles tested at 1080p high settings: Ashes of Singularity, Assassin's Creed Mirage, Assassin's Creed Valhalla, Avatar: Frontiers of Pandora, Borderlands 3, Cyberpunk 2077, Deus Ex: Mankind Divided, Dirt 5, Dota 2, F1 2023, Final Fantasy 14, Final Fantasy 14: Endwalker, Hitman 3, League of Legends, Metro Exodus, Rainbow Six Siege, Red Dead Redemption 2, Rift Breaker 2, Shadow of the Tomb Raider, Strange Brigade, Tiny Tina's Wonderlands, Total War: Warhammer 3, Warhammer: Dawn of War III, World of Tanks Encore, Wolfenstein: Youngblood. Configuration for AMD Ryzen 9 7945HX and 7945HX3D processors (55W TDP): ASUS ROG Strix SCAR 17, Nvidia GeForce RTX 4090 GPU, 32GB 4800MHz RAM, 1TB SSD. Configuration for Core i9-14900HX processor (55W): ASUS ROG Strix SCAR 18, Nvidia GeForce RTX 4090 GPU, 32GB 5600MHz RAM, 2TB SSD. Laptop manufacturers may vary configurations yielding different results. DRG-19.

3. GD-150 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.

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Laptop type	Model	Cores / Threads	Max Boost ³ (up to)/ Base	TDP	Cache	On-Chip Graphics	AMD Ryzen™ AI	USB4	Memory	Node	Architecture	Intel Compares
7045HX Series processors EXTREME GAMING & CREATOR	AMD Ryzen™ 9 7945HX3D	16C / 32T	5.4 / 2.5 GHz	55W+	144MB w/ 3D V-Cache™	AMD Radeon™ 610M		✓	DDR5	5nm	“Zen 4”	13th/14th gen Core i9 HX
	AMD Ryzen™ 9 7945HX	16C / 32T	5.4 / 2.5 GHz	55W+	80 MB	AMD Radeon™ 610M		✓	DDR5	5nm	“Zen 4”	13th/14th gen Core i9 HX
	AMD Ryzen™ 9 7940HX	16C / 32T	5.2 / 2.4 GHz	55W+	80 MB	AMD Radeon™ 610M		✓	DDR5	5nm	“Zen 4”	13th/14th gen Core i9 HX
	AMD Ryzen™ 9 7845HX	12C / 24T	5.2 / 3.0 GHz	55W+	76 MB	AMD Radeon™ 610M		✓	DDR5	5nm	“Zen 4”	13th/14th gen Core i9 HX
	AMD Ryzen™ 7 7840HX	12C / 24T	5.1 / 2.9 GHz	55W+	76 MB	AMD Radeon™ 610M		✓	DDR5	5nm	“Zen 4”	13th/14th gen Core i7 HX
	AMD Ryzen™ 7 7745HX	8C / 16T	5.1 / 3.6 GHz	55W+	40 MB	AMD Radeon™ 610M		✓	DDR5	5nm	“Zen 4”	13th/14th gen Core i7 HX
	AMD Ryzen™ 5 7645HX	6C / 12T	5.0 / 4.0 GHz	55W+	38 MB	AMD Radeon™ 610M		✓	DDR5	5nm	“Zen 4”	13th/14th gen Core i5 HX
7040 Series processors THIN & LIGHT GAMING ELITE ULTRATHIN	AMD Ryzen™ 9 7940HS	8C / 16T	5.2 / 4.0 GHz	35-54W	24 MB	AMD Radeon™ 780M	✓	✓	DDR5/LPDDR5x	4nm	“Zen 4”	13th gen Core i9 H
	AMD Ryzen™ 7 7840HS	8C / 16T	5.1 / 3.8 GHz	35-54W	24 MB	AMD Radeon™ 780M	✓	✓	DDR5/LPDDR5x	4nm	“Zen 4”	13th gen Core i7 H
	AMD Ryzen™ 5 7640HS	6C / 12T	5.0 / 4.3 GHz	35-54W	22 MB	AMD Radeon™ 760M	✓	✓	DDR5/ LPDDR5x	4nm	“Zen 4”	13th gen Core i5 H
	AMD Ryzen™ 7 7840U	8C / 16T	5.1 / 3.3 GHz	15-30W	24 MB	AMD Radeon™ 780M	✓	✓	DDR5/ LPDDR5x	4nm	“Zen 4”	13th gen Core i7 U/P
	AMD Ryzen™ 5 7640U	6C / 12T	4.9 / 3.5 GHz	15-30W	22 MB	AMD Radeon™ 760M	✓	✓	DDR5/ LPDDR5x	4nm	“Zen 4”	13th gen Core i5 U/P
	AMD Ryzen™ 5 7545U	6C / 12T	4.9 / 3.2 GHz	15-30W	22 MB	AMD Radeon™ 740M		✓	DDR5/ LPDDR5x	4nm	“Zen 4”	13th gen Core i5 U/P
	AMD Ryzen™ 5 7540U	6C / 12T	4.9 / 3.2 GHz	15-30W	22 MB	AMD Radeon™ 740M		✓	DDR5/ LPDDR5x	4nm	“Zen 4”	13th gen Core i5 U/P
	AMD Ryzen™ 3 7440U	4C / 8T	4.7 / 3.9 GHz	15-30W	12 MB	AMD Radeon™ 740M		✓	DDR5/ LPDDR5x	4nm	“Zen 4”	13th gen Core i3 U
7035 Series processors THIN & LIGHT GAMING PREMIUM THIN & LIGHT	AMD Ryzen™ 7 7735HS	8C / 16T	4.75 / 3.2 GHz	35-54W	20 MB	AMD Radeon™ 680M		✓	DDR5/LPDDR5x	6nm	“Zen 3+”	12th/13th gen Core i7 H
	AMD Ryzen™ 7 7435HS	8C / 16T	4.5 / 3.1 GHz	35-54W	20 MB	N/A		✓	DDR5	6nm	“Zen 3+”	12th/13th gen Core i7 H
	AMD Ryzen™ 5 7535HS	6C / 12T	4.55 / 3.3 GHz	35-54W	19 MB	AMD Radeon™ 660M		✓	DDR5/LPDDR5	6nm	“Zen 3+”	12th/13th gen Core i5 H
	AMD Ryzen™ 5 7235HS	4C / 8T	4.2 / 3.2 GHz	35-54W	10 MB	N/A		✓	DDR5	6nm	“Zen 3+”	12th/13th gen Core i5 H
	AMD Ryzen™ 7 7735U	8C / 16T	4.75 / 2.7 GHz	15-28W	20 MB	AMD Radeon™ 680M		✓	DDR5/LPDDR5	6nm	“Zen 3+”	12th/13th gen Core i7 U/P
	AMD Ryzen™ 5 7535U	6C / 12T	4.55 / 2.9 GHz	15-28W	19 MB	AMD Radeon™ 660M		✓	DDR5/LPDDR5	6nm	“Zen 3+”	12th/13th gen Core i5 U/P
	AMD Ryzen™ 3 7335U	4C / 8T	4.3 / 3.0 GHz	15-28W	10 MB	AMD Radeon™ 660M		✓	DDR5/LPDDR5	6nm	“Zen 3+”	12th/13th gen Core i3 U
7030 Series processors MAINSTREAM THIN & LIGHT	AMD Ryzen™ 7 7730U	8C / 16T	4.5 / 2.0 GHz	15W	20 MB	AMD Radeon™ graphics			DDR4/LPDDR4x	7nm	“Zen 3”	12th gen Core i7 U/P
	AMD Ryzen™ 5 7530U	6C / 12T	4.5 / 2.0 GHz	15W	19 MB	AMD Radeon™ graphics			DDR4/LPDDR4x	7nm	“Zen 3”	12th gen Core i5 U/P
	AMD Ryzen™ 5 7430U	6C / 12T	4.3 / 2.3 GHz	15W	19 MB	AMD Radeon™ graphics			DDR4/LPDDR4x	7nm	“Zen 3”	12th gen Core i5 U/P
	AMD Ryzen™ 3 7330U	4C / 8T	4.3 / 2.3 GHz	15W	10 MB	AMD Radeon™ graphics			DDR4/LPDDR4x	7nm	“Zen 3”	12th gen Core i3 U/P
7020 Series processors EVERYDAY COMPUTING	AMD Ryzen™ 5 7520U	4C / 8T	4.3 / 2.8 GHz	15W	6 MB	AMD Radeon™ 610M			LPDDR5	6nm	“Zen 2”	11th gen/12th gen N Core i5
	AMD Ryzen™ 3 7320U	4C / 8T	4.1 / 2.4 GHz	15W	6 MB	AMD Radeon™ 610M			LPDDR5	6nm	“Zen 2”	11th gen/12th gen N Core i3