

AMD CONSUMER POCKET GUIDE

JULY 2024



AMD 
together we advance_

TOGETHER WE ADVANCE



AI

AMD is advancing the future of AI and transforming the modern world around us.



ENTERTAINMENT

From special effects to virtual production to 3D modeling, AMD technology is empowering film, TV, and game creators to realize their vision.



GAMING

AMD is used across PCs, handhelds, and gaming consoles like Xbox and Playstation.

Did you know that AMD powers technology all around you? From airplanes to electric cars, from your favorite game consoles to the cloud, companies rely on AMD to deliver dependable performance to advance the world around us.



AEROSPACE

AMD is advancing space exploration on Mars, with powerful AI that learns & adapts to new discoveries.



AUTOMOTIVE

AMD technology is powering next-generation automotive systems for automated driving, electrification, networking, and in-vehicle entertainment.



SUPERCOMPUTING

One of the world's most powerful supercomputers powered by AMD is helping solve the world's toughest challenges, from forecasting the future of climate change to early cancer detection and more.

AMD RYZEN™ PROCESSORS FOR LAPTOPS

AMD processors are built for the mobile user, bringing the ideal balance of performance and efficiency, while enabling new and exciting experiences in the latest ultrathin and gaming laptops.

With AMD processors, customers get:

POWERFUL PERFORMANCE

Feel real-time responsiveness for smooth multitasking and powerful productivity.

IMMERSIVE GRAPHICS

Bring games and creations to life with immersive AMD Radeon™ graphics.

INCREDIBLE BATTERY LIFE

Power-sipping efficiency for amazing battery life to stay on the go.

INNOVATIVE EXPERIENCES

AMD processors help power your passions, bringing new experiences to life.

MEET THE AMD PROCESSOR FAMILY

AMD RYZEN™ AI PROCESSORS

Unlock ultra-fast performance and next-gen AI experiences in premium, modern laptops

AMD RYZEN™ PROCESSORS

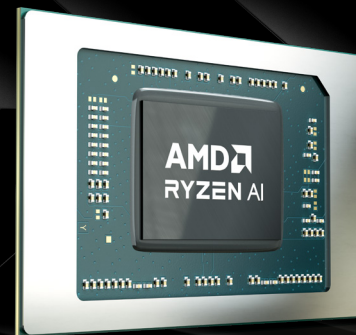
Advanced performance on the go for premium ultrathin and powerful gaming laptops

AMD ATHLON™ PROCESSORS

Responsive performance meets modern features for mainstream consumers

AMD C-SERIES PROCESSORS

Accelerated performance and long battery life for Chromebooks



AMD RYZEN™ AI FOR PERSONAL AI PROCESSING

AMD Ryzen™ AI¹ is your personal AI engine (available in select processors) designed to bring new experiences to life with responsive, power efficient and intelligent processing.

WHY DO YOU NEED A LOCAL AI ENGINE LIKE RYZEN™ AI?

- ➔ Unlock new AI experiences on device
- ➔ Helps with efficient processing of AI tasks for long battery life
- ➔ Can help lower application and subscription costs
- ➔ Can help enable enhanced privacy by running locally instead of over the internet

THE AI PC ERA IS HERE

AMD brings leadership performance to AI PCs for everyone, from everyday AI processing to driving transformative AI experiences with the world's most powerful AI engine¹.



AMD Ryzen™ AI 300 Series processors

Dive into a world of AI tools and digital assistants on advanced AI PCs, future-ready for a world of evolving AI applications.

Advanced AI Processing with up to 3X more AI engine power than previous gen.²

Console-class gaming with advanced AMD Radeon™ 800M Series graphics built-in.

Powerful CPU performance to multitask, run demanding apps, and create with blazing speed

Microsoft Copilot+ ready for the next generation of AI experiences*

*with free updates to Copilot+ PCs experiences when available

AMD RYZEN™ AI 300 SERIES LEADING PERFORMANCE

AMD Ryzen™ AI 9 HX 370 processor:

up to **70% Faster** vs Apple M3
Cinebench R24 nT³

up to **47% Faster** vs Intel Core Ultra 9 185H
Cinebench R24 nT⁴

up to **30% Faster** vs Qualcomm Snapdragon X Elite X1E-80-100
Cinebench R24 nT⁵



AMD Ryzen™ 8040 Series and Ryzen™ 7040 Series processors

Step into a world of personal AI processing.

Everyday AI processing with your own personal AI engine built-in.

Smooth gaming with AMD Radeon™ 700M Series graphics built-in.

Pure speed to get more done faster and multitask with ease.

BRING THE GAME

However you game on the go, AMD Ryzen™ processors power it.

Laptop PC Gaming

AMD powers the ultimate gaming laptops, delivering high frame rates, smooth gaming, and incredible visual fidelity.

H / HS processors

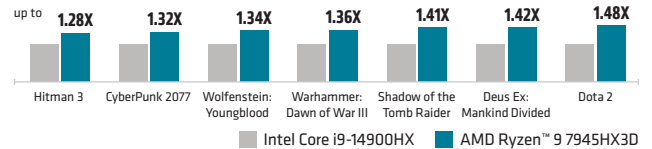
Portable, high-performance thin and light gaming notebooks

HX / HX3D processors

Extreme gaming in the most powerful gaming notebooks featuring AMD 3D V-Cache™ technology on X3D models

WORLD'S FASTEST MOBILE GAMING PROCESSOR¹

20% FASTER GAMING on average across 25 titles



Handheld

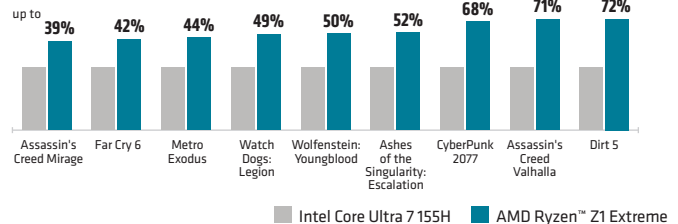
AMD Ryzen™ Z1 Series processors put high performance gaming in the palm of your hand.

Ryzen™ Z1 and Z1 Extreme processors

High-performance handheld PC gaming

AMD RYZEN™ Z1 EXTREME VS MSI CLAW WITH INTEL CORE ULTRA PROCESSOR

38% FASTER GAMING on average across 22 titles²



AMD RYZEN™ PROCESSOR MODELS

MODEL	CORES/ THREADS	MAX BOOST (UP TO) ¹	TDP	TOTAL CACHE	ARCHITECTURE	GRAPHICS	RYZEN™ AI NPU TOPS
AMD Ryzen™ AI 300 Series Processors							
AMD Ryzen™ AI 9 HX 370	12/24	5.1 GHz	15-54W	36MB	4nm "Zen 5"	Radeon™ 890M	50
AMD Ryzen™ AI 9 365	10/20	5.0 GHz	15-54W	34MB	4nm "Zen 5"	Radeon™ 880M	50
AMD Ryzen™ 8040 Series Processors							
AMD Ryzen™ 9 8945HS	8/16	5.2 GHz	35-54W	24MB	4nm "Zen 4"	Radeon™ 780M	16
AMD Ryzen™ 7 8845HS	8/16	5.1 GHz	35-54W	24MB	4nm "Zen 4"	Radeon™ 780M	16
AMD Ryzen™ 7 8840HS	8/16	5.1 GHz	20-30W	24MB	4nm "Zen 4"	Radeon™ 780M	16
AMD Ryzen™ 7 8840U	8/16	5.1 GHz	15-30W	24MB	4nm "Zen 4"	Radeon™ 780M	16
AMD Ryzen™ 5 8645HS	6/12	5.0 GHz	35-54W	22MB	4nm "Zen 4"	Radeon™ 760M	16
AMD Ryzen™ 5 8640HS	6/12	4.9 GHz	20-30W	22MB	4nm "Zen 4"	Radeon™ 760M	16
AMD Ryzen™ 5 8640U	6/12	4.9 GHz	15-30W	22MB	4nm "Zen 4"	Radeon™ 760M	16
AMD Ryzen™ 5 8540U	6/12	4.9 GHz	15-30W	22MB	4nm "Zen 4"	Radeon™ 740M	NA
AMD Ryzen™ 3 8440U	4/8	4.7 GHz	15-30W	12MB	4nm "Zen 4"	Radeon™ 740M	NA

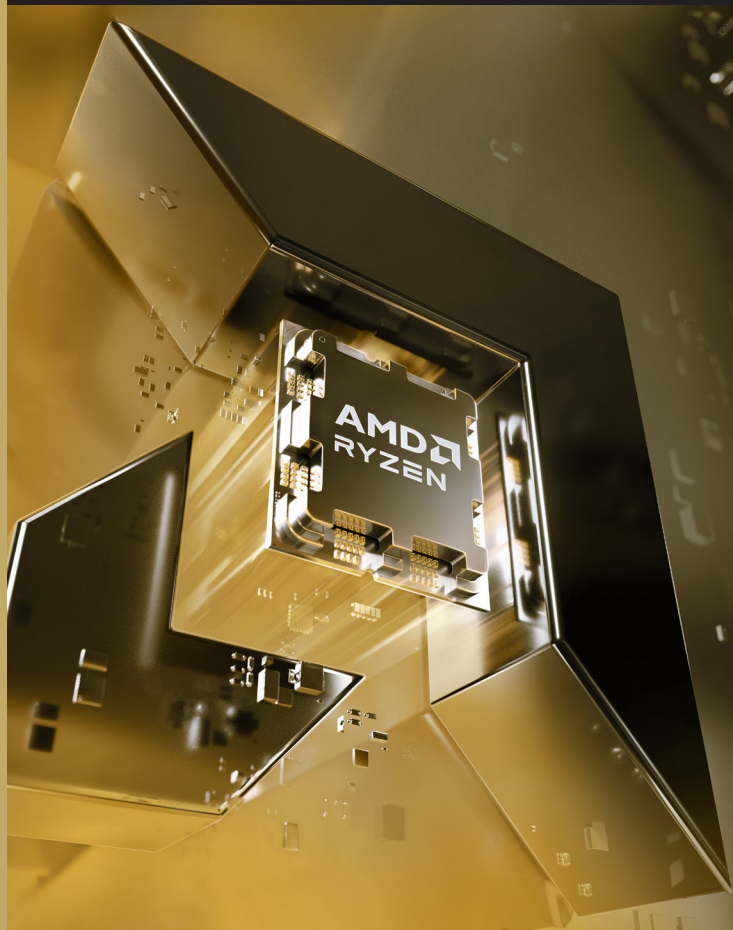
MODEL	CORES/ THREADS	MAX BOOST (UP TO) ¹	TDP	TOTAL CACHE	ARCHITECTURE	GRAPHICS	RYZEN™ AI NPU TOPS
AMD Ryzen™ 7000 Series Processors							
AMD Ryzen™ 9 7945HX3D	16/32	5.4 GHz	55W+	144MB	5nm "Zen 4"	Radeon™ 610M	N/A
AMD Ryzen™ 9 7945HX	16/32	5.4 GHz	55W+	80MB	5nm "Zen 4"	Radeon™ 610M	N/A
AMD Ryzen™ 9 7940HX	16/32	5.2 GHz	55W+	80MB	5nm "Zen 4"	Radeon™ 610M	N/A
AMD Ryzen™ 7 7845HX	12/24	5.2 GHz	55W+	76MB	5nm "Zen 4"	Radeon™ 610M	N/A
AMD Ryzen™ 7 7745HX	8/16	5.1 GHz	55W+	40MB	5nm "Zen 4"	Radeon™ 610M	N/A
AMD Ryzen™ 5 7645HX	6/12	5.0 GHz	55W+	38MB	5nm "Zen 4"	Radeon™ 610M	N/A
AMD Ryzen™ 9 7940HS	8/16	5.2 GHz	35-54W	24MB	4nm "Zen 4"	Radeon™ 780M	10
AMD Ryzen™ 7 7840HS	8/16	5.1 GHz	35-54W	24MB	4nm "Zen 4"	Radeon™ 780M	10
AMD Ryzen™ 7 7840U	8/16	5.1 GHz	15-30W	24MB	4nm "Zen 4"	Radeon™ 780M	10
AMD Ryzen™ 5 7640HS	6/12	5.0 GHz	35-54W	22MB	4nm "Zen 4"	Radeon™ 760M	10
AMD Ryzen™ 5 7540U	6/12	4.9 GHz	15-30W	22MB	4nm "Zen 4"	Radeon™ 760M	10
AMD Ryzen™ 5 7545SU	6/12	4.9 GHz	15-30W	22MB	4nm "Zen 4"	Radeon™ 740M	N/A
AMD Ryzen™ 5 7540U	6/12	4.9 GHz	15-30W	22MB	4nm "Zen 4"	Radeon™ 740M	N/A
AMD Ryzen™ 3 7440U	4/8	4.7 GHz	15-30W	12MB	4nm "Zen 4"	Radeon™ 740M	N/A
AMD Ryzen™ 7 7735HS	8/16	4.75 GHz	35-54W	20MB	6nm "Zen 3+"	Radeon™ 680M	N/A
AMD Ryzen™ 7 7735SU	8/16	4.75 GHz	15-28W	20MB	6nm "Zen 3+"	Radeon™ 680M	N/A
AMD Ryzen™ 7 7435HS	8/16	4.5 GHz	35-54W	20MB	6nm "Zen 3+"	N/A	N/A
AMD Ryzen™ 5 7535HS	6/12	4.55 GHz	35-54W	19MB	6nm "Zen 3+"	Radeon™ 660M	N/A
AMD Ryzen™ 7 7235HS	4/8	4.2 GHz	35-54W	10MB	6nm "Zen 3+"	N/A	N/A
AMD Ryzen™ 5 7535SU	6/12	4.55 GHz	15-28W	19MB	6nm "Zen 3+"	Radeon™ 660M	N/A
AMD Ryzen™ 3 7335SU	4/8	4.3 GHz	15-28W	10MB	6nm "Zen 3+"	Radeon™ 660M	N/A
AMD Ryzen™ 7 7730U	8/16	4.5 GHz	15W	20MB	7nm "Zen 3"	Radeon™ graphics	N/A
AMD Ryzen™ 5 7530U	6/12	4.5 GHz	15W	19MB	7nm "Zen 3"	Radeon™ graphics	N/A
AMD Ryzen™ 5 7430U	6/12	4.3 GHz	15W	19MB	7nm "Zen 3"	Radeon™ graphics	N/A
AMD Ryzen™ 3 7330U	4/8	4.3 GHz	15W	10MB	7nm "Zen 3"	Radeon™ graphics	N/A
AMD Ryzen™ 5 7520U	4/8	4.3 GHz	15W	6MB	6nm "Zen 2"	Radeon™ 610M	N/A
AMD Ryzen™ 3 7320U	4/8	4.1 GHz	15W	6MB	6nm "Zen 2"	Radeon™ 610M	N/A

AMD RYZEN™ PROCESSOR MODELS

MODEL	CORE/THREADS	MAX BOOST (UP TO) ¹	TDP	TOTAL CACHE	ARCHITECTURE	GRAPHICS
AMD Ryzen™ 6000 Series Processors						
AMD Ryzen™ 9 6980HX	8/16	5.0 GHz	45W+	20MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 9 6980HS	8/16	5.0 GHz	35W	20MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 9 6900HX	8/16	4.9 GHz	45W+	20MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 9 6900HS	8/16	4.9 GHz	35W	20MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 7 6800H	8/16	4.7 GHz	45W	20MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 7 6800HS	8/16	4.7 GHz	35W	20MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 5 6600H	6/12	4.5 GHz	45W	19MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 5 6600HS	6/12	4.5 GHz	35W	19MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 7 6800U	8/16	4.7 GHz	15-28W	20MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 5 6600U	6/12	4.5 GHz	15-28W	19MB	6nm "Zen 3+"	Radeon™ 680M
AMD Ryzen™ 5000 Series Processors						
AMD Ryzen™ 7 5825U	8/16	4.5 GHz	15W	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 5 5625U	6/12	4.3 GHz	15W	19MB	7nm "Zen 3"	Radeon™ graphics

MODEL	CORE/THREADS	MAX BOOST (UP TO) ¹	TDP	TOTAL CACHE	ARCHITECTURE	GRAPHICS
AMD Ryzen™ 9 5980HX	8/16	4.8 GHz	45W+	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 9 5980HS	8/16	4.8 GHz	35W	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 9 5900HX	8/16	4.6 GHz	45W+	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 9 5900HS	8/16	4.6 GHz	35W	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 7 5800H	8/16	4.4 GHz	45W	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 7 5800HS	8/16	4.4 GHz	35W	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 5 5600H	6/12	4.2 GHz	45W	19MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 5 5600HS	6/12	4.2 GHz	35W	19MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 7 5800U	8/16	4.4 GHz	15W	20MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 7 5700U	8/16	4.3 GHz	15W	12MB	7nm "Zen 2"	Radeon™ graphics
AMD Ryzen™ 5 5600U	6/12	4.2 GHz	15W	19MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 5 5500U	6/12	4.0 GHz	15W	11MB	7nm "Zen 2"	Radeon™ graphics
AMD Ryzen™ 3 5400U	4/8	4.0 GHz	15W	10MB	7nm "Zen 3"	Radeon™ graphics
AMD Ryzen™ 3 5300U	4/8	3.8 GHz	15W	6MB	7nm "Zen 2"	Radeon™ graphics

AMD RYZEN™ DESKTOP PROCESSORS



Step into a world of immersive gaming and brilliant content creation with the incredible performance of AMD Ryzen™ desktop processors. Whether you're a DIY enthusiast or buying your first entry PC, AMD has a processor for everyone.

AMD RYZEN™ DESKTOP PROCESSOR HIGHLIGHTS:

DEPENDABLE LONGEVITY

AMD promises years of platform upgradability for a cutting-edge PC that can grow with your needs over time.

ULTIMATE GAMING WITH X3D PROCESSORS

Unleash massive gaming performance with exclusive AMD 3D V-Cache™ technology, featuring vertically stacked L3 cache for up to 144MB of on-chip memory.

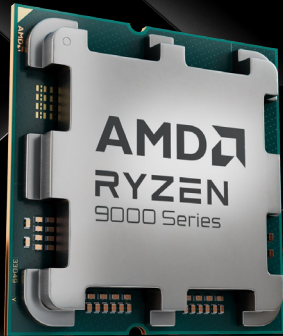
AMD RYZEN™ AI¹ FOR PERSONAL AI PROCESSING

Be ready to usher in the future with next-gen AI experiences on the first integrated AI engine in a desktop processor.

PLAY GAMES WITHOUT A GRAPHICS CARD

AMD Ryzen™ G-Series processors feature powerful built-in AMD Radeon™ graphics to play the latest PC games in HD without a graphics card.

AMD RYZEN™ DESKTOP PROCESSORS



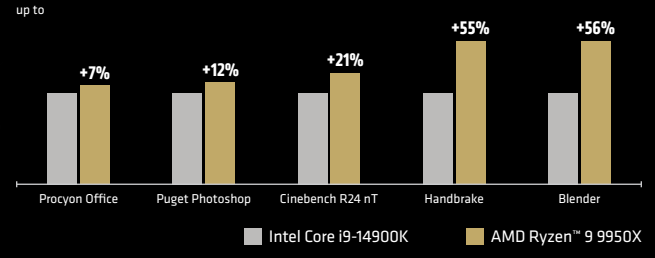
BORN TO LEAD. DESTINED TO WIN.

Relish in the speed you need to win. It doesn't matter if you're working hard or gaming hard, the AMD Ryzen™ 9000 Series processors deliver powerhouse performance and are packed with state-of-the-art technologies including AMD "Zen 5" cores, high-speed memory, PCIe® 5.0 support, and AMD EXPO™ technology for one-touch memory overclocking¹.

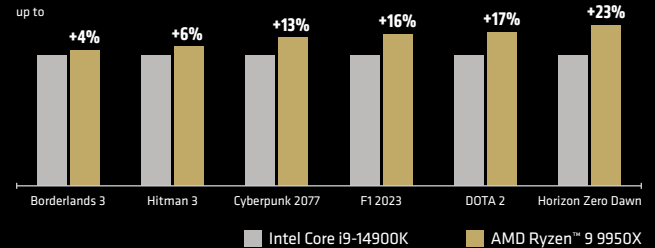
AMD RYZEN™ 9000 SERIES PROCESSORS FOR DESKTOP PCS

Whether working, creating, or gaming you get winning performance with AMD.

Productivity & Content Creation Leadership



Gaming Leadership



AMD RYZEN™ DESKTOP PROCESSORS

AMD RYZEN™ 8000 G-SERIES PROCESSORS

Game with the fastest built-in desktop PC processor graphics in the world¹

- Ready to game out-of-the-box in full HD 1080p with AMD Radeon™ 700M Series graphics
- Built ready for upgrading to high-end graphics for more extreme gaming
- Optimized for power efficiency with low power draw
- Includes AMD Ryzen™ AI², the world's first integrated AI engine on a desktop processor³

FASTEST PC PROCESSOR GRAPHICS IN THEIR CLASS¹

AMD Ryzen™ 8000 G-Series vs Intel Core i7-14700K (FPS)

Far Cry 6	Assassin's Creed Valhalla	CyberPunk 2077
Ryzen 7 8700G 3.4x	Ryzen 7 8700G 3.8x	Ryzen 7 8700G 4.6x
Ryzen 5 8600G 3.1x	Ryzen 5 8600G 3.4x	Ryzen 5 8600G 3.9x
Ryzen 5 8500G 2.3x	Ryzen 5 8500G 2.5x	Ryzen 5 8500G 2.7x

AMD ADVANTAGE™ GAMING DESKTOPS

The AMD Advantage™ platform¹ fuses together the best AMD Ryzen™ processors, AMD Radeon™ graphics, and AMD Software plus AMD Smart Technologies for a seamless high-performance desktop experience.



AMPLIFIED PERFORMANCE

- Reach peak performance with the powerhouse performance of the latest AMD Ryzen™ processors plus AMD Radeon™ graphics
- AMD Smart Technologies designed to enhance system performance and efficiency



ADVANCED VISUALS

- Brilliant gaming on industry defining display engine
- AMD FreeSync™ Premium² technology enabled displays
- Connect the most advanced displays supporting up to ultra-high resolutions



BUILT TO GAME

- Premium build materials and optimized fan and thermal management
- State of the art software with AMD Software: Adrenaline Edition™ application

AMD RYZEN™ 7000 SERIES DESKTOP PROCESSORS

MODEL	CPU CORES/THREADS	BOOST CLOCK (UP TO) / BASE, GHz ¹	TOTAL CACHE (L2+L3)	PCI ^e SUPPORT	TDP	ARCHITECTURE
AMD Ryzen™ 9000 Series Processors						
AMD Ryzen™ 9950X	16/32	5.7/4.3	80MB	Gen 5	170W	4nm "Zen 5"
AMD Ryzen™ 99900X	12/24	5.6/4.4	76MB	Gen 5	170W	4nm "Zen 5"
AMD Ryzen™ 79700X	8/16	5.5/3.8	40MB	Gen 5	65W	4nm "Zen 5"
AMD Ryzen™ 59600X	6/12	5.4/3.9	38MB	Gen 5	65W	4nm "Zen 5"
AMD Ryzen™ 8000 Series Processors						
AMD Ryzen™ 78700G with Radeon™ Graphics	8/16	5.1/4.2	24MB	Gen 4	65W	4nm "Zen 4"
AMD Ryzen™ 78700F	8/16	5.0/4.1	24MB	Gen 4	65W	4nm "Zen 4"
AMD Ryzen™ 58600G with Radeon™ Graphics	6/12	5.0/4.3	22MB	Gen 4	65W	4nm "Zen 4"
AMD Ryzen™ 58500G with Radeon™ Graphics	6/12	5.0/3.5	22MB	Gen 4	65W	4nm "Zen 4"
AMD Ryzen™ 58400F	6/12	4.7/4.2	22MB	Gen 4	65W	4nm "Zen 4"
AMD Ryzen™ 38300G with Radeon™ Graphics	4/8	4.9/3.4	12MB	Gen 4	65W	4nm "Zen 4"
AMD Ryzen™ 7000 Series Processors						
AMD Ryzen™ 97950X3D	16/32	5.7/4.2	144MB	Gen 5	120W	5nm "Zen 4"
AMD Ryzen™ 97950X	16/32	5.7/4.5	80MB	Gen 5	170W	5nm "Zen 4"
AMD Ryzen™ 97900X3D	12/24	5.6/4.4	140MB	Gen 5	120W	5nm "Zen 4"
AMD Ryzen™ 97900X	12/24	5.6/4.7	76MB	Gen 5	170W	5nm "Zen 4"
AMD Ryzen™ 97900	12/24	5.4/3.7	76MB	Gen 5	65W	5nm "Zen 4"
AMD Ryzen™ 77800X3D	8/16	5.0/4.2	104MB	Gen 5	120W	5nm "Zen 4"
AMD Ryzen™ 77700X	8/16	5.4/4.5	40MB	Gen 5	105W	5nm "Zen 4"
AMD Ryzen™ 77700	8/16	5.3/3.8	40MB	Gen 5	65W	5nm "Zen 4"
AMD Ryzen™ 57600X	6/12	5.3 / 4.7	38MB	Gen 5	105W	5nm "Zen 4"
AMD Ryzen™ 57600	6/12	5.1 / 3.8	38MB	Gen 5	65W	5nm "Zen 4"
AMD Ryzen™ 57500F	6/12	5.0/3.7	38MB	Gen 5	65W	5nm "Zen 4"

MODEL	CPU CORES/ THREADS	BOOST CLOCK (UP TO) / BASE, GHz ¹	TOTAL CACHE (L2+L3)	PCI ^e SUPPORT	TDP	ARCHITECTURE
AMD Ryzen™ 5000 Series Processors						
AMD Ryzen™ 95950X	16/32	4.9/3.4	72MB	Gen 4	105W	7nm "Zen 3"
AMD Ryzen™ 95900XT	16/32	4.8/3.3	72MB	Gen 4	105W	7nm "Zen 3"
AMD Ryzen™ 95900X	12/24	4.8/3.7	70MB	Gen 4	105W	7nm "Zen 3"
AMD Ryzen™ 75800X3D	8/16	4.5/3.4	100MB	Gen 4	105W	7nm "Zen 3"
AMD Ryzen™ 75700X3D	8/16	4.1/3.0	100MB	Gen 4	105W	7nm "Zen 3"
AMD Ryzen™ 75800XT	8/16	4.8/3.8	36MB	Gen 4	105W	7nm "Zen 3"
AMD Ryzen™ 75800X	8/16	4.7/3.8	36MB	Gen 4	105W	7nm "Zen 3"
AMD Ryzen™ 75700X	8/16	4.6/3.4	36MB	Gen 4	65W	7nm "Zen 3"
AMD Ryzen™ 75700G with Radeon™ Graphics	8/16	4.6/3.8	20MB	Gen 3	65W	7nm "Zen 3"
AMD Ryzen™ 75700	8/16	4.6/3.7	20MB	Gen 3	65W	7nm "Zen 3"
AMD Ryzen™ 55600X3D	6/12	4.4/3.3	99MB	Gen4	105W	7nm "Zen 3"
AMD Ryzen™ 55600GT	6/12	4.6/3.6	19MB	Gen 3	65W	7nm "Zen 3"
AMD Ryzen™ 55600X	6/12	4.6/3.7	35MB	Gen 4	65W	7nm "Zen 3"
AMD Ryzen™ 55600G with Radeon™ Graphics	6/12	4.4/3.9	19MB	Gen 3	65W	7nm "Zen 3"
AMD Ryzen™ 55600	6/12	4.4/3.5	35MB	Gen 4	65W	7nm "Zen 3"
AMD Ryzen™ 55500GT	6/12	4.4/3.6	19MB	Gen 3	65W	7nm "Zen 3"
AMD Ryzen™ 55500	6/12	4.2/3.6	19MB	Gen 3	65W	7nm "Zen 3"
AMD Ryzen™ 4000 Series Processors						
AMD Ryzen™ 74700G with Radeon™ Graphics	8/16	4.4/3.6	12MB	Gen 3	65W	7nm "Zen 2"
AMD Ryzen™ 54600G with Radeon™ Graphics	6/12	4.2/3.7	11MB	Gen 3	65W	7nm "Zen 2"
AMD Ryzen™ 34300G with Radeon™ Graphics	4/8	4.0/3.8	6MB	Gen 3	65W	7nm "Zen 2"

AMD RADEON™ GRAPHICS DELIVER:

FAST PERFORMANCE

Breakthrough new levels of performance with blazing fast clock speeds for an immersive gaming experience at all resolutions. AMD Radeon™ RX 7000 Series graphics are built to deliver incredible performance, graphics, and visuals.

Software features like AMD HYPR-RX¹ deliver next level performance in thousands of games, and works exclusively on AMD Radeon™ graphics.

FUTURE-READY FEATURES

AMD Radeon™ RX 7000 Series graphics offer generous amounts of video memory across the stack for future-ready gaming and computing.

LATEST ADVANCED TECHNOLOGIES

With AI accelerators, AV1² encoding, and DisplayPort™ 2.1 support, be in the forefront of all the latest technologies with AMD Radeon™ RX 7000 Series graphics.

LEADERSHIP PERFORMANCE IN SOME OF THE LATEST GAMES

AMD RADEON™ RX 7900 XTX GRAPHICS

AVG FPS @ 4K MAX SETTINGS | VS. GEFORCE RTX 4080 SUPER (UP TO)

77 FPS | +13% FASTER

Ghost of Tsushima

130 FPS | +7% FASTER

Dragon's Dogma 2

74 FPS | +6% FASTER

Horizon Forbidden West

104 FPS | +3% FASTER

Final Fantasy XIV: Dawntrail

188 FPS | +10% FASTER

F1® 24

132 FPS | +18% FASTER

Starfield (with AMD FSR 3)

126 FPS | +1% FASTER

Avatar: Frontiers of Pandora™ (with AMD FSR 3)

67 FPS | +8% FASTER

The First Descendant



AMD ADVANTAGE FOR NEXT-LEVEL GAMING:

AMD ADVANTAGE PREMIUM

OPTIMIZED. TESTED. READY TO GAME



Developed through extensive customer research, these systems are engineered to be the most gamer-centric on the market. A harmonious integration of high-performing AMD CPUs and GPUs, exclusive family of smart technologies, AMD software and carefully selected hardware components deliver a revolutionary gaming experience.

AMD ADVANTAGE

VERIFIED TO PERFORM



AMD Advantage™ systems are redefining gaming PCs and delivering new levels of gameplay. A combination of AMD Ryzen™ processors, AMD Radeon™ graphics, smart technologies and AMD software come enabled, verified and ready for action.



CHANGE THE WAY YOU GAME

AMD SOFTWARE: ADRENALIN EDITION™

AMD HYPR-RX

Enable a suite of features that delivers next-level performance with one-click, directly from the AMD Software home tab.

AMD FLUID MOTION FRAMES¹

AFMF is a frame generation technology designed to increase performance across thousands of games.

AMD RADEON™ ANTI-LAG²

Reduces input latency for ultra-fast response times.

MAXIMUM FIDELITY

AMD FIDELITYFX™ TECHNOLOGY⁵

AMD FidelityFX™ technology is an open-source toolkit for game developers that helps deliver ultimate visual quality to power incredible gaming experiences.

AMD FIDELITYFX™ SUPER RESOLUTION (FSR)³

AMD FSR uses cutting-edge upscaling technologies to help boost framerates in compatible game titles.

AMD RADEON ANTI-LAG 2⁴

AMD Radeon™ Anti-Lag 2 takes Anti-lag to the next level, delivering even more responsive experiences by integrating Anti-Lag technology directly into the game.

AMD SMART TECHNOLOGIES

- **AMD Smartshift Max** dynamically shifts power between the CPU and GPU to boost performance based on workload.
- **AMD Smart Shift Eco** optimizes battery performance no matter how you play.
- **AMD Smart Access Graphics** allows the GPU to control the display directly, boosting everyday efficiency and gaming performance.
- **AMD Smart Access Memory™ Technology⁶** enhances performance in select titles through data transfer between AMD processors and graphics.

AMD RADEON™ GRAPHICS FOR DESKTOPS

AMD RADEON™ 7000 MODEL	ARCHITECTURE	MAX POWER (UP TO)	GAME CLOCK¹	VRAM
AMD Radeon™ RX 7900 XTX	RDNA™ 3	355W	2300 MHz	24GB
AMD Radeon™ RX 7900 XT	RDNA™ 3	315W	2000 MHz	20GB
AMD Radeon™ RX 7900 GRE	RDNA™ 3	260W	1880 MHz	16GB
AMD Radeon™ RX 7800 XT	RDNA™ 3	263W	2124 MHz	16GB
AMD Radeon™ RX 7700 XT	RDNA™ 3	245W	2171 MHz	12GB
AMD Radeon™ RX 7600 XT	RDNA™ 3	190W	2470 MHz	16GB
AMD Radeon™ RX 7600	RDNA™ 3	165W	2250 MHz	8GB

AMD RADEON™ 6000 MODEL	ARCHITECTURE	MAX POWER (UP TO)	GAME CLOCK¹	VRAM
AMD Radeon™ RX 6950 XT	RDNA™ 2	335W	2100 MHz	16GB
AMD Radeon™ RX 6800 XT	RDNA™ 2	300W	2015 MHz	16GB
AMD Radeon™ RX 6800	RDNA™ 2	250W	1815 MHz	16GB
AMD Radeon™ RX 6750 XT	RDNA™ 2	250W	2495 MHz	12GB
AMD Radeon™ RX 6750 GRE 12GB	RDNA™ 2	250W	2439 MHz	12GB
AMD Radeon™ RX 6750 GRE 10GB	RDNA™ 2	170W	2189 MHz	10GB
AMD Radeon™ RX 6700	RDNA™ 2	175W	2174 MHz	10GB
AMD Radeon™ RX 6650 XT	RDNA™ 2	180W	2410 MHz	8GB
AMD Radeon™ RX 6600	RDNA™ 2	132W	2044 MHz	8GB
AMD Radeon™ RX 6500 XT	RDNA™ 2	113W	2650 MHz	4GB/8GB
AMD Radeon™ RX 6400	RDNA™ 2	53W	2039 MHz	4GB

RECOMMENDED USE CASES ● = BEST ○ = BETTER ○ = GOOD ○ = SUPPORTS

PRODUCT MODEL	1080P FHD GAMING	1440 QHD GAMING	4K UHD GAMING	ESPORTS GAMING
AMD Radeon™ RX 7900 XTX	●	●	●	●
AMD Radeon™ RX 7900 XT	●	●	●	●
AMD Radeon™ RX 7900 GRE	●	●	●	●
AMD Radeon™ RX 7800 XT	●	●	●	●
AMD Radeon™ RX 7700 XT	●	●	○	●
AMD Radeon™ RX 7600 XT	●	○	○	●
AMD Radeon™ RX 7600	●	○	○	●
AMD Radeon™ RX 6950 XT	●	●	●	●
AMD Radeon™ RX 6800 XT	●	●	●	●
AMD Radeon™ RX 6800	●	●	●	●
AMD Radeon™ RX 6750 XT	●	●	○	●
AMD Radeon™ RX 6750 GRE 12GB	●	●	○	●
AMD Radeon™ RX 6750 GRE 10GB	●	○	●	●
AMD Radeon™ RX 6700	●	○	○	●
AMD Radeon™ RX 6650 XT	●	○	○	●
AMD Radeon™ RX 6600	○	○	○	●
AMD Radeon™ RX 6500 XT	○	○	○	○
AMD Radeon™ RX 6400	○	○	○	○

AAA GAMING	HARDWARE RAYTRACING	VR GAMING	LIVE GAME STREAMING & VIDEO EDITING	WATCHING 4K MEDIA & CONTENT	AI ACCELERATION
●	2 ND ● GEN	●	AV1 ● ENC	●	●
●	2 ND ● GEN	●	AV1 ● ENC	●	●
●	2 ND ○ GEN	●	AV1 ● ENC	●	●
●	2 ND ○ GEN	●	AV1 ● ENC	●	○
●	2 ND ○ GEN	○	AV1 ● ENC	●	○
●	2 ND ○ GEN	○	AV1 ○ ENC	●	○
●	●	●	●	●	○
●	●	●	●	●	○
●	●	●	●	●	○
●	○	●	●	●	○
●	○	●	●	●	○
●	○	●	●	●	○
●	○	○	○	●	○
○	○	○	○	○	○
○	○	○	○	○	○

AMD RADEON™ GRAPHICS FOR MOBILE

AMD RADEON™ S-SERIES MODEL	ARCHITECTURE	MAX POWER (UP TO)	GAME CLOCK ¹	VRAM
AMD Radeon™ RX 7700S	RDNA™ 3	100W	2200 MHz	8 GB
AMD Radeon™ RX 7600S	RDNA™ 3	75W	1865 MHz	8 GB
AMD Radeon™ RX 6800S	RDNA™ 2	100W	1975 MHz	8 GB
AMD Radeon™ RX 6700S	RDNA™ 2	80W	1890 MHz	8 GB
AMD Radeon™ RX 6600S	RDNA™ 2	80W	1881 MHz	4 GB
AMD Radeon™ RX 6550S	RDNA™ 2	50W	2170 MHz	4 GB

RECOMMENDED USE CASES

● = BEST ◐ = BETTER ○ = GOOD

Product Model	FHD Gaming	QHD Gaming	UHD (4K) Gaming
AMD Radeon™ RX 7900M	●	●	◐
AMD Radeon™ RX 6850M XT	●	●	◐
AMD Radeon™ RX 6800M	●	●	○
AMD Radeon™ RX 6700M	●	●	○
AMD Radeon™ RX 7600M XT	●	◐	
AMD Radeon™ RX 7600M	●	◐	
AMD Radeon™ RX 6650M XT	●	◐	
AMD Radeon™ RX 6650M	●	○	
AMD Radeon™ RX 6600M	●		
AMD Radeon™ RX 6550M	◐		
AMD Radeon™ RX 6500M	◐		
AMD Radeon™ RX 6450M	◐		
AMD Radeon™ RX 6300M	○		

AMD Radeon™ RX 6800S	●	◐	
AMD Radeon™ RX 7700S	●	◐	
AMD Radeon™ RX 6700S	●	◐	
AMD Radeon™ RX 7600S	●	◐	
AMD Radeon™ RX 6600S	●		
AMD Radeon™ RX 6550S	◐		

AMD RADEON™ M-SERIES MODEL	ARCHITECTURE	MAX POWER (UP TO)	GAME CLOCK ¹	VRAM
AMD Radeon™ RX 7900M	RDNA™ 3	180W	1825 MHz	16 GB
AMD Radeon™ RX 7600M XT	RDNA™ 3	120W	2300 MHz	8 GB
AMD Radeon™ RX 7600M	RDNA™ 3	90W	2070 MHz	8 GB
AMD Radeon™ RX 6850M XT	RDNA™ 2	165W	2463 MHz	12 GB
AMD Radeon™ RX 6800M	RDNA™ 2	145W	2300 MHz	12 GB
AMD Radeon™ RX 6700M	RDNA™ 2	135W	2300 MHz	10 GB
AMD Radeon™ RX 6650M XT	RDNA™ 2	120W	2162 MHz	8 GB
AMD Radeon™ RX 6650M	RDNA™ 2	120W	2222 MHz	8 GB
AMD Radeon™ RX 6600M	RDNA™ 2	100W	2177 MHz	8 GB
AMD Radeon™ RX 6550M	RDNA™ 2	80W	2560 MHz	4 GB
AMD Radeon™ RX 6500M	RDNA™ 2	50W	2191 MHz	4 GB
AMD Radeon™ RX 6450M	RDNA™ 2	50W	2220 MHz	4 GB
AMD Radeon™ RX 6300M	RDNA™ 2	25W	1512 MHz	2 GB

Watching 4K Media & Content	Esports Gaming	AAA Gaming	Live Game Streaming & Video Editing	VR Gaming	Hardware Raytracing
●	●	●	AV1 ● ENC	●	2ND ● GEN
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	◐
●	●	●	●	●	◐
●	●	●	AV1 ● ENC	◐	2ND ◐ GEN
●	●	●	AV1 ◐ ENC	◐	2ND ◐ GEN
●	●	●	●	◐	◐
●	●	◐	◐	◐	○
●	◐	◐	○	○	○
●	◐	○	○		
○	○	○			

●	●	●	● ● ENC	●	2ND ● GEN
●	●	●	●	◐	◐
●	●	●	AV1 ● ENC	◐	2ND ◐ GEN
●	◐	◐	○	○	
○	○	○			

FOOTNOTES

Based on SPOJ specification of AMD Ryzen™ AI 300 Series processors with 50 TOPS compared to an AMD Ryzen 8040 Series processors with 16 TOPS as of June 2024. STX-01.

Based on AMD product specifications and competitive products announced as of May 2024. AMD Ryzen™ AI 300 Series processors' NPU offer up to 50 peak TOPS. AI PC is defined as a laptop PC with a processor that includes a neural processing unit (NPU). STX-04.

Testing as of May 2024 by AMD Performance Labs using the following benchmarks: Procyon Office Productivity, Puget Adobe Premier Pro, Cinebench 2024, and Blender. Configuration for AMD Ryzen™ AI 9 HX 370 processor: AMD reference board, Radeon™ 890M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Apple M3 processor: MacBook Pro 14", 16GB RAM, 1TB SSD, macOS. Laptop manufacturers may vary configurations yielding different results. STX-20.

Testing as of May 2024 by AMD Performance Labs using the following benchmarks: Procyon Office Productivity, Puget Adobe Photoshop, Puget Adobe Premier Pro, Cinebench 2024, Blender, Handraker, and Kracken. Configuration for AMD Ryzen™ AI 9 HX 370 processor: AMD reference board, Radeon™ 890M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Intel Core Ultra 9 185H processor: MSI Prestige 16 AI Evo, Intel Arc Graphics, 16GB RAM, 1TB SSD, VBS=ON, Windows 11. Laptop manufacturers may vary configurations yielding different results. STX-21.

Testing as of May 2024 using the following benchmarks: Geekbench 6.3 multi-core, Procyon Office Productivity, Cinebench 2024, and 3Dmark Night Raid Graphics. Configuration for AMD Ryzen™ AI 9 HX 370 processor (54W): AMD reference board, Radeon™ 890M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Qualcomm Snapdragon Elite processor: Microsoft Surface 15", 16GB RAM, Qualcomm Adreno graphics, Windows 11. Laptop manufacturers may vary configurations yielding different results. STX-22.

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 II, World of Tanks Encore, Wolfenstein: Youngblood. Configuration for AMD Ryzen 9 7945HX and 7945HXD processors (55W/17W): 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.

Testing as of Apr 2024 by AMD Performance Labs using Cinebench R24, Geekbench 6 benchmarks. Configuration for ROG Ally: Ryzen Z1 Extreme processor, 16GB 6400MHz, 512GB SSD, VBS on, Turbo Performance mode. Configuration for MSI Claw: Intel Core Ultra 7 155H, 16GB 6400MHz, 1TB SSD, on, Extreme Performance mode. PC manufacturers may vary configurations yielding different results. Results may vary. Z1-7

Testing as of Dec 2023 by AMD Performance Labs on test systems configured with Ryzen 8700G/8600G/8500G CPUs, integrated Radeon 780M/760M/740M graphics, ASRock B650 Pro RS motherboard, 32GB 6400MHz RAM (2x16GB), Samsung 980 Pro 1TB NVM, and Windows 11 Pro vs. similarly configured systems with Intel Core i14-700K processor, integrated Intel UHD 770 graphics, MSI MPG 2650 Carbon motherboard, 32GB 5400MHz RAM (2x16GB), Samsung 980 Pro 1TB NVM, and Windows 11 Pro on the following titles at 1080p, VBS enabled: Dota 2, Final Fantasy 14, Grand Theft Auto V, World of Tanks, F1 2022, Far Cry 6, Shadow of the Tomb Raider, Hitman 3, Assassin's Creed: Valhalla, Tiny Tina's Wonderlands, Cyberpunk 2077, Borderlands 3. Additional applications tested include: 3Dmark, PCMark 10 Extended, PassMark 2D. System manufacturers may vary configurations, yielding different results. PDX-06.

Overclocking and/or Undervolting AMD processors and memory, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate outside of AMD's published specifications will void any applicable AMD product warranty, even when enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or retailer. Users assume all risks and liabilities that may arise out of overclocking / undervolting AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106.

AMD FreeSync, FreeSync Premium/FreeSync Premium Pro technology requires AMD Radeon graphics and a display certified by AMD. See www.amd.com/freesync for complete details. Content capability with your system or display manufacturer before purchase. GD-127.

Game clock is the expected GPU clock when running typical gaming applications, set to typical TGP (Total Graphics Power). Actual individual game clock results may vary. GD-147

Boost Clock Frequency is the maximum frequency achievable on the CPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads. GD-150.

Radeon Anti-Lag is compatible with DirectX 9/11/12 APIs, and Windows 10/11. Hardware compatibility includes Radeon RX 400 Series discrete graphics and newer dGPUs and Ryzen 2000 Series and newer CPUs, including hybrid and detachable graphics configurations. No mGPU support. GD-157

Video code acceleration (including at least the HEVC (H.265), H.264, VP9, and AV1 codecs) is subject to and not operable without inclusion/installation of compatible media players. GD-176.

Smart Access Memory technology is compatible with AMD Radeon RX 5000 Series GPUs or later, or Ryzen 3000 Series CPUs or later (excluding Ryzen 5 3400G and Ryzen 3 3200G CPUs), AMD desktop kits (4800Us Series and later), and an AMD S00 Series motherboard or later with the latest BIOS update available at the vendor website. OEM support is required. For additional information see <https://www.amd.com/en/technologies/smart-access-memory>. GD-178

AMD FidelityFX Super Resolution (FSR) versions 1, 2, and 3 are available on select games which require game developer integration and are supported on select AMD products. AMD does not provide technical or warranty support for AMD FidelityFX Super Resolution enablement on other vendors' graphics cards. See <https://www.amd.com/en/technologies/fidelity-fx-super-resolution> for additional information. GD-187a.

For additional information about AMD Advantage, see www.amd.com/advantage. GD-190.

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; (b) AMD Ryzen AI 300 Series processors, and (c) all AMD Ryzen 8000U 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-220c.

AMD Fluid Motion Frames, or AFMF, is a frame generation technology designed to increase frame rates and smooth movement for game winning performance with minimal impact to image quality. AFMF is integrated into AMD software. AFMF supports AMD Radeon™ RX 6000 and 7000 Series discrete desktop graphics cards, mobile laptop systems with AMD Ryzen™ 7000 and 8000 Series Processors with AMD Radeon™ 700M Series Graphics and AMD Radeon™ RX 6000 and 7000 Series discrete mobile graphics, supported in both hybrid mode and dedicated graphics mode, and AMD Ryzen™ 7000 and 8000 Series mobile and desktop processors with AMD Radeon™ 700M Series Graphics. GD-234a.

AMD Radeon Anti-Lag 2 is available in select games which require game developer integration and is supported on select AMD RDNA™ architecture and above discrete and integrated graphics cards. See <https://www.amd.com/en/products/software/adrenalin/radeon-software-anti-lag.html> for additional information. GD-242.

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.

Testing done by AMD performance labs Feb 5, 2024, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7900 GRE, RX 7800 XT, RX 7700 XT, RX 7600 XT, RX 7600, (Driver 23.40.02.03-240123a) vs. a similarly configured system with a GeForce RTX 4080 Super, RTX 4080, RTX 4070 Ti Super, RTX 4070 Ti, RTX 4070 Super, RTX 4070, RTX 4060 Ti 16GB, RTX 4060 (Driver 551.31) graphics cards with AMD Smart Access Memory technology or ReBar turned ON, to measure FPS in Starfield at 1080p, 1440p and 4K at Ultra and High settings with AMD FidelityFX Super Resolution 3 "Quality" and "Balanced" modes respectively and Frame Generation turned on and off. System manufacturers may vary configurations, yielding different results. RX-1072.

Testing done by AMD performance labs Apr 11, 2024, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 GRE, RX 7800 XT, RX 7700 XT, RX 7600 XT, RX 7600, (Driver 23.40.02.27.01) with AMD Smart Access Memory technology turned ON, vs. a similarly configured system with GeForce RTX 4080 Super, RTX 4070 Ti Super, RTX 4070 Super, RTX 4070, RTX 4060 Ti 16GB, RTX 4060 (Driver 551.86) with ReBar turned ON, to measure FPS in the following games at 4K, 1440p and 1080p Max settings: Dragon's Dogma 2, Horizon Forbidden West, Skull and Bones. System manufacturers may vary configurations, yielding different results. RX-1098A.

Testing done by AMD performance labs May 17, 2024, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7900 GRE, RX 7800 XT, RX 7700 XT, RX 7600 XT, RX 7600, (Driver 23.40.02.33.01-240508a) with AMD Smart Access Memory technology turned ON, vs. a similarly configured system with GeForce RTX 4080 Super, RTX 4070 Ti Super, RTX 4070 Super, RTX 4070, RTX 4060 Ti 16GB, RTX 4060 (Driver 552.44) with ReBar turned ON, to measure FPS in Clash of Sushima at 4K, 1440p and 1080p Max settings with AMD FSR3 / NVIDIA DLSS3 (both "Quality" mode) and Frame Generation turned on an off. System manufacturers may vary configurations, yielding different results. RX-1101.

Testing done by AMD performance labs June 5, 2024, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7900 GRE, RX 7800 XT, RX 7700 XT, RX 7600 XT, RX 7600, (Driver 24.5.1) with AMD Smart Access Memory technology turned ON, vs. a similarly configured system with GeForce RTX 4080 Super, RTX 4070 Ti Super, RTX 4070 Super, RTX 4070, RTX 4060 Ti, RTX 4060 (Driver 555.86) with ReBar turned ON, to measure FPS in Final Fantasy XIV: Dawntrail Official Benchmark v1.1 at 4K, 1440p and 1080p Max settings. System manufacturers may vary configurations, yielding different results. RX-1106A.

Testing done by AMD performance labs July 3, 2024, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX, RX 7900 XT, RX 7900 GRE, RX 7800 XT, RX 7700 XT, RX 7600 XT, RX 7600, (Driver 24.6.1) with AMD Smart Access Memory technology turned ON, vs. a similarly configured system with GeForce RTX 4080 Super, RTX 4070 Ti Super, RTX 4070 Super, RTX 4070, RTX 4060 Ti, RTX 4060 (Driver 556.12) with ReBar turned ON, to measure FPS in The First Descendant at 4K, 1440p and 1080p Max settings with AMD FSR3 "Quality" mode and Frame Gen turned on and off. System manufacturers may vary configurations, yielding different results. RX-1113.

Testing done by AMD performance labs May 23, 2024, on a test system configured with a Ryzen 7 7800X3D CPU, 32 GB DDR5-6000 Memory, Windows 11 Pro on Radeon RX 7900 XTX (Driver 24.5.1) with AMD Smart Access Memory technology turned ON, vs. a similarly configured system with GeForce RTX 4080 Super (Driver 555.85) with ReBar turned ON, to measure FPS at 4K in the following games and settings: F1 24 (Ultra High), Avatar: Frontiers of Pandora™ (Ultra, AMD FSR 3 "Quality" mode and Frame Gen on). System manufacturers may vary configurations, yielding different results. RX-1115.

The information contained within this document is for information purposes only and may contain technical inaccuracies, omissions and typographical errors. The information contained herein is subject to change and may be rendered inaccurate for many reasons, including but not limited to product and roadmap changes, component and motherboard version changes, new model and/or product releases, product differences between offering manufacturers, software changes, BIOSes, firmware, firmware upgrades, or the like. AMD assumes no obligation to update or otherwise correct or revise this information. However, AMD reserves the right to revise this information and to make changes from time to time to the content hereof without obligation of AMD to notify any person of such revisions or changes. AMD MAKES NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE CONTENTS HEREOF. AMD ASSUMES NO RESPONSIBILITY FOR ANY INACCURACIES, ERRORS OR OMISSIONS THAT MAY APPEAR IN THIS INFORMATION. AMD SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT WILL AMD BE LIABLE TO ANY PERSON FOR ANY DIRECT, INDIRECT, SPECIAL OR OTHER CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF ANY INFORMATION CONTAINED HEREIN, EVEN IF AMD IS EXPRESSLY ADVISED OF THE POSSIBILITY OF SAID DAMAGES.

© 2024 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD logo, Radeon, Ryzen, Athlon and combinations thereof are trademarks of Advanced Micro Devices, Inc. in the United States and/or other jurisdictions. Other names are for informational purposes only and may be trademarks of their respective owners. July 2024. PID# 232028150

PARTNER HUB (AMD.COM/PARTNER)

EVERYTHING YOU NEED TO SELL AND MARKET AMD PRODUCTS

A global site available in 8 languages.

- Sales Tools
 - Training Courses
 - Webinars
 - Industry Insights
 - Logos
 - Marketing Materials
-

AMD ARENA: LEARN, EARN, WIN

Earn badges and get rewards as you expand your expertise across virtually all AMD products with training courses, sales tools, webinars and more! The more missions you complete, the more points and badges you earn.

[ENTER AT AMD.COM/ARENA](https://www.amd.com/arena)

STAY UP TO DATE WITH AMD PARTNER NEWSLETTERS

[SUBSCRIBE NOW: AMD.COM/PARTNERSUBSCRIBE](https://www.amd.com/partnersubscribe)

