BUILT-IN AMD RADEON™ 700M SERIES GRAPHICS WILL GET YOU IN THE GAME, BUT TO TAKE IT TO THE NEXT LEVEL, AMD RYZEN™ 8000 SERIES PROCESSORS ARE READY FOR HIGH-END GRAPHICS UPGRADES FOR LIGHTNING FAST PERFORMANCE.

IMMENSE PERFORMANCE, TINY POWER USAGE

- Optimized for efficiency with low power draw
- Ultimate efficiency with low-cost air cooling, cool and quiet operation, and low power requirements

EASY TO OVERCLOCK

- Unlocked for higher overclocked performance at the touch of a button
- Optimized for both performance and efficiency with low energy usage despite their impressive power

INCLUDED PREMIUM AMD WRAITH COOLER[6]

- All models come with a cooler in the box
- AMD Ryzen™ 7 8700G includes premium Wraith Spire
- AMD Ryzen™ 3 and Ryzen™ 5 8000 Series include Wraith Stealth

Available in both pre-built desktops and as component parts for DIY builds.

PRODUCT SPECIFICATIONS

	CORES/ THREADS	TYPICAL TDP	MAX / BASE FREQUENCY[1] (UP TO)	TOTAL CACHE	PCIE® GEN (TOTAL/ GRAPHICS LANES)	UNLOCKED FOR OVERCLOCKING[2]?	COOLER INCLUDED[6]	BUILT-IN GRAPHICS	RYZEN™ AI[3]	COMPETITIVE PROCESSOR
AMD RYZEN™ 7 8700G	8/16	65W	5.1/4.2 GHz	24MB	PCIe® 4 20/8	Yes	WRAITH SPIRE	AMD RADEON™ 780M	XDNA 1.6 GHz	Intel Core i7-14700
AMD RYZEN™ 5 8600G	6/12	65W	5.0/4.3 GHz	22MB	PCIe® 4 20/8	Yes	WRAITH STEALTH	AMD RADEON™ 760M	XDNA 1.6 GHz	Intel Core i5-14400, Core i5-14500, Core i5-14600
AMD RYZEN™ 5 8500G	6/12	65W	5.0/3.5 GHz	22MB	PCIe® 4 14/4	PBO Only	WRAITH STEALTH	AMD RADEON™ 740M	N/A	Intel Core i5-14400, Core i5-14500, Core i5-14600
AMD RYZEN™ 3 8300G	4/8	65W	4.9/3.4 GHz	12MB	PCIe® 4 14/4	PBO Only	WRAITH STEALTH	AMD RADEON™ 740M	N/A	Intel Core i3-14100

This chart illustrates relative product positioning on key functionality and is not necessarily an indication of relative performance. Performance may vary by application.

AMD RYZEN 8000 Series

QUICK REFERENCE GUIDE | AMD RYZEN™ 8000G SERIES PROCESSORS

FEATURES

AMD EXPO™ TECHNOLOGY[2]

Accelerate gaming with AMD EXPO™ technology. Higher memory frequencies and aggressive settings can unlock higher and smoother frame rates.

PRECISION BOOST 2 TECHNOLOGY[4]

Accelerate performance for intense workloads, automatically boosting CPU clock speeds on AMD Ryzen™ 8000 Series processors. Precision Boost 2 technology is always watching temperature and power consumption to intelligently deliver the best results for the PC.

AMD RYZEN™ AI TECHNOLOGY[3,5]

The AMD Ryzen™ AI brand means that the AMD Ryzen™ processor is uniquely capable of accelerating Artificial Intelligence (AI) software. It includes a dedicated AI engine designed for the ultimate in AI processing efficiency; an AMD Radeon™ graphics engine optimized for AI workloads; and AMD Ryzen™ processor cores that also have powerful AI capabilities. All 3 of these separate AI accelerators working together defines AMD Ryzen™ AI technology. (*only available on Ryzen™ 7 8700G and Ryzen™ 5 8600G*)

USE CASES

● BEST ◐ BETTER ○ GOOD

	MAXIMUM GAME PERFORMANCE	GAMING & STREAMING	CONTENT CREATION	PRODUCTIVITY & ENTERTAINMENT	GAMING WITH BUILT-IN GRAPHICS
AMD RYZEN™ 7 8700G	◐	◐	◐	●	●
AMD RYZEN™ 5 8600G	○	◐	◐	●	◐
AMD RYZEN™ 5 8500G	○	◐	◐	●	○
AMD RYZEN™ 3 8300G	○	○	○	◐	○

This chart illustrates relative product positioning on key functionality and is not necessarily an indication of relative performance. Performance may vary by application.

FOR MORE INFORMATION VISIT www.AMD.com/RYZEN

1. 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.
2. GD-106. 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 vulnerabilityby 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.
3. GD-233. Ryzen™ AI technology is compatible with all AMD Ryzen 8000G Series desktop processors except the Ryzen 5 8500G/GE and Ryzen 3 8300G/GE
4. GD-188. For additional information about Precision Boost 2, see https://www.amd.com/en/support/kb/faq/cpu-pb2
5. GD-220A. 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 AMD Ryzen 7040 Series processors except the Ryzen 5 7540U and Ryzen 3 7440U. Please check with your system manufacturer for feature availability prior to purchase. GD-220a.
6. WTH-6. The effectiveness of cooling solutions is dependent upon a number of factors, including ambient air temperature and the configuration of the system, components, and cooling solution. It is the users' obligation to ensure operation of the processor within the applicable AMD product specifications.

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