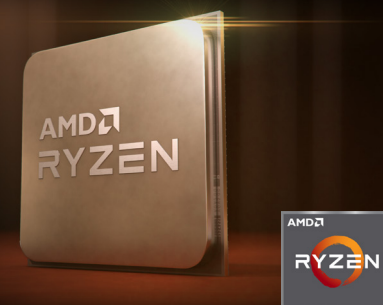# QUICK REFERENCE GUIDE
AMD RYZEN™ 5000 SERIES PROCESSORS
THE WORLD'S BEST GAMING PROCESSORS

THE FASTEST IN THE GAME[1]

AMD Ryzen™ 5000 Series processors power the next generation of demanding games, providing one of a kind immersive experiences and dominate any multithreaded task like 3D and video rendering, and software compiling. With up to 16 cores, 32 threads, boost clocks of up to 4.9GHz[2] and up to 72MB of cache in select models, AMD Ryzen™ 5000 Series processors deliver the ultimate gaming performance.

THE LATEST TECHNOLOGIES

All AMD Ryzen™ 5000 Series processors come with the full suite of Ryzen™ processor technologies designed to elevate your PC's processing power including Precision Boost 2 and Precision Boost Overdrive[3]. Also get maximum graphics and storage bandwidth with these PCIe® 4.0 ready processors. That's not all, AMD Ryzen™ 5000 Series features the exceptional 7nm architecture performance-per-watt.

BUILD WITH CONFIDENCE

With AMD Ryzen™ 5000 Series desktop processors, you can easily configure and customize your rig for the ultimate gaming build. These processors drop-in ready with a BIOS update on AMD 500 and 400 Series motherboards. You can easily tweak and tune your processor with Ryzen™ Master and jump in the game faster with AMD StoreMI technology.

	CORES/ THREADS	TYPICAL TDP	UP TO MAX/BASE FREQUENCY[2,4]	TOTAL CACHE	PCIE® 4.0 LANES WITH X570 CHIPSET (USABLE / TOTAL)	UNLOCKED FOR OVERCLOCKING[5]	ARCHITECTURE	IN BOX COOLER	COMPETITIVE PROCESSOR
AMD Ryzen™ 9 5950X	16/32	105W	4.9/3.4	72MB	36/44	Yes	"Zen 3"	-	-
AMD Ryzen™ 9 3950X	16/32	105W	4.7/3.5	72MB	36/44	Yes	"Zen 2"	-	-
AMD Ryzen™ 9 5900X	12/24	105W	4.8/3.7	70MB	36/44	Yes	"Zen 3"	-	Core i9-10900K
AMD Ryzen™ 9 3900XT	12/24	105W	4.7/3.8	70MB	36/44	Yes	"Zen 2"	-	Core i9-10900K
AMD Ryzen™ 7 5800X	8/16	105W	4.7/3.8	36MB	36/44	Yes	"Zen 3"	-	Core i7-10700K
AMD Ryzen™ 7 3800XT	8/16	105W	4.7/3.9	36MB	36/44	Yes	"Zen 2"	-	Core i7-10700K
AMD Ryzen™ 5 5600X	6/12	65W	4.6/3.7	35MB	36/44	Yes	"Zen 3"	Wraith Stealth	Core i5-10600K
AMD Ryzen™ 5 3600XT	6/12	95W	4.5/3.8	35MB	36/44	Yes	"Zen 2"	Wraith Spire	Core i5-10600K

AMD

AMD RYZEN TECHNOLOGY

- **Precision Boost 2** automatically raises processor frequencies for supercharged performance. Whether your application uses one core or many, Precision Boost 2 is always watching temperature and power consumption to intelligently deliver the best possible result for your PC.
- **AMD StoreMI** technology is the fast and easy way to expand and accelerate the storage in a desktop by combining the speed of an SSD with the capacity of an HDD.

- **Precision Boost Overdrive**[5] makes automatic overclocking a reality with increased clock speed and power limits at the click of a button. Precision Boost Overdrive is also easy to use thanks to one-touch activation in the BIOS or via AMD Ryzen™ Master.
- Use **AMD Ryzen™ Master** with your unlocked AMD Ryzen desktop processor to easily personalize performance.

● = BEST ◐ = BETTER ○ = GOOD

	PRODUCTIVITY & ENTERTAINMENT	MAX GAME PERFORMANCE	GAMING & STREAMING	CONTENT CREATION
AMD Ryzen™ 9 5950X	●	●	●	●
AMD Ryzen™ 9 5900X	●	●	●	◐
AMD Ryzen™ 7 5800X	●	●	◐	◐
AMD Ryzen™ 5 5600X	●	●	○	○

*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**

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