

# Nvidia RTX 4000 release date, price, specs, and benchmark rumours

Nvidia RTX 4000 graphics cards are set to replace the current-gen GeForce RTX 3000 GPUs, and whispers suggest the green team could skip ahead and release an RTX 5000 series. Confusing, right? Well, to help you navigate the convoluted waters of PC gaming, we've compiled everything we know so far about the green team's next-generation tech. As much as RTX 4000 GPUs will undoubtedly offer a high level of performance, it's features like Nvidia Reflex and Nvidia DLSS that make them even more attractive to anyone looking to upgrade their gaming PC. However, these next-generation pixel pushers may face stiff competition from the likes of AMD RDNA 3 and Intel Arc Alchemist graphics cards. However, Nvidia isn't content with simply cornering the desktop GPU market and has its sights set on the cloud too. The company's Nvidia GeForce Now service currently provides up to RTX 3080 levels of performance to all manner of devices, such as low-spec PCs and smartphones (and not-so-smart-phones), via cloud streaming. Team green will undoubtedly update GeForce Now with RTX 4000 graphics cards at some point after their release to the public.

## AMD Zen 4 Ryzen 7000 Specs, Release Date Window, Benchmarks, and More

The arrival of AMD's Zen 4 Ryzen 7000 series "**Raphael**" processors draws near, and recent developments make this a critical release for the company. AMD's previous-gen Ryzen 5000 processors accomplished what was once thought impossible: The chips unseated Intel's best in every CPU benchmark, including taking the top of our list of best CPUs for gaming, as the company outclassed Intel's Rocket Lake in every regard. But then Alder Lake happened. Intel's new hybrid x86 architecture, featuring a blend of big and powerful cores mixed in with small efficiency cores, pushed the company into the lead in all facets of raw performance and even helped reduce its glaring deficiencies in the power consumption department. But, perhaps most importantly, Alder Lake started a full-on price war with Intel's new bare-knuckle approach to pricing, particularly in the mid-range that serves as gamer country. But AMD isn't standing still, and its Ryzen 7000 chips are now poised on the starting blocks to take the race for performance leadership to the next level. AMD recently demoed a 16-core Ryzen 7000 processor hitting an amazing 5.5 GHz during a gaming demo and completing a Blender render in 31% less time than Intel's flagship Core i9-12900K. AMD says the final chips will come with up to >5.5 GHz boost clocks and are loaded with new tech, like a new integrated Radeon RDNA 2 graphics engine, and support AI instructions based on AVX-512. We've also learned plenty of new details about the 5nm Zen 4 Ryzen 7000 'Raphael' processors and the new wave of motherboards with the AM5 socket. AMD also confirmed during its recent analyst day that not only will the standard desktop PC chips come this year, but the company will also launch the 3D V-Cache models by the end of the year.



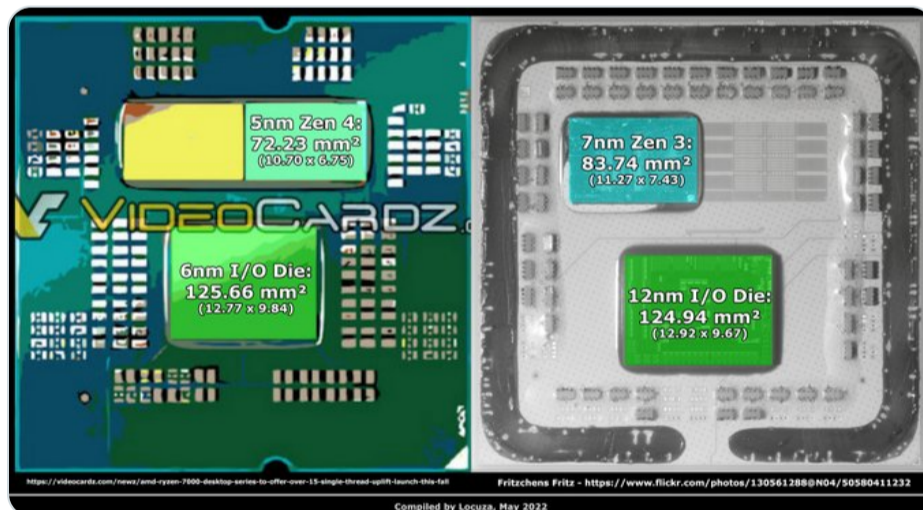
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If the image is representative of the real thing\*, then the new 6 nm I/O die measures about 125-126 mm<sup>2</sup>. Pretty much like the 12 nm predecessor from GlobalFoundries.

\* It seems to be at least close, based on the Zen 4 CPU chiplets.



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