Compare Nvidia RTX 4070 Super, RTX 4070 Super Ti and RTX 4080 Super

Nvidia's new RTX 4070 Ti Super, RTX 4070 Super and RTX 4080 Super are causing a stir because despite being part of the RTX 4000 Series, the new GPUs bring some significant improvements at a reasonable price.

Nvidia's new RTX 4070 Ti Super, RTX 4070 Super and RTX 4080 Super are causing a stir because despite being part of the RTX 4000 Series, the new GPUs bring some significant improvements at a reasonable price.

Compare RTX 4070 Ti Super, RTX 4070 Super and RTX 4080 Super

Nvidia chose CES 2024 to announce the latest updates to its 4000 series GPUs: RTX 4070 Ti Super, RTX 4070 Super and RTX 4080 Super. This is the first time Nvidia has launched a new GPU under its "Super" branding, as despite numerous rumors that the RTX 3000 Series would get a refresh, that never happened.

The new GPUs bring worthy upgrades to Nvidia's existing lineup, and while they're still pricey, they're well worth considering as your next GPU upgrade, especially if you're into GPUs. old.

Let's compare the specs of the RTX 4070 Ti Super, RTX 4070 Super and RTX 4080 Super alongside the original models.

	RTX 4080 Super	**RTX 4080**	**RTX 4070 Ti Super**	**RTX 4070 Super**	**RTX 4070**
Price	$999	$1,199	$799	$599	$599
Available times	January 30, 2024	November 2022	January 23, 2024	January 16, 2024	April 2023
CUDA core	10,240	9,728	8,448	7,168	5,888
RT Core	80	76	66	56	forty six
Tensor Core	320	304	264	224	184

L2 Cache	64MB	64MB	48MB	36MB	36MB
Base Clock	Unavailable	2,205MHz	Unavailable	Unavailable	1,920MHz
Boost Clock	Unavailable	2,505MHz	Unavailable	Unavailable	2.475MHz
Memory clock	1,437.5MHz	1,400MHz	1,750MHz	1,313MHz	1,313MHz
Memory type	GDDR6X	GDDR6X	GDDR6X	GDDR6X	GDDR6X
Memory Pool	16GB	16GB	16GB	12GB	12GB
Memory bus	256-bit	256-bit	192-bit	192-bit	192-bit
Memory bandwidth	736GB/s	716GB/s	672GB/s	504GB/s	504GB/s
TGP	320W	320W	285W	220W	200W

Specifications

As you can see in the table, the new GPUs receive superior performance compared to the original RTX 4070 and RTX 4080. However, the performance gains are uneven, with the new RTX 4070 Super and Super Ti receiving a larger upgrade than the new RTX 4080 Super.

The RTX 4080 Super gets a clock speed increase of 50MHz for a minute, increasing to 2,550MHz, a slight increase in CUDA core count, and no other notable changes. The biggest difference between RTX 4080 and 4080 Super is price, which the article will discuss later.

It's a different story for the RTX 4070 Super and Super Ti, as both new 4070 GPUs receive big performance boosts.

The RTX 4070 Super brings a significantly higher number of CUDA cores, increasing from 5,888 to 7,168. CUDA Cores are specialized GPU hardware responsible for processing and rendering, and this increase will deliver a significant performance boost to the RTX 4070 Super. On top of that, the 4070 Super receives a slight increase in power consumption, from 200W to 220W.

Similarly, the RTX 4070 Super Ti gets a further boost, with the CUDA core count increased to 8,448. Importantly, the 4070 Super Ti also has 16GB of memory, up from 12GB, while its memory bus also increases to 256-bit (matching the RTX 4080 and 4080 Super). The 4GB memory increase and wider memory bus should help the RTX 4070 Super Ti deliver a significant performance boost over the original RTX 4070 (as well as the RTX 4070 Ti, which is already on the market).

Price vs performance

The RTX 4080 launches in 2022, priced at around $1,199 - the highest figure ever for one of Nvidia's "80" level cards. Even taking into account inflation between the launch of the RTX 3080 in 2020 (about 699 USD), the sky-high price has caused many would-be buyers to give up.

Currently, Nvidia is reducing the price of the RTX 4080 Super to $999. It's still an expensive expense; There's no escaping that, but the performance boost and price drop make the new RTX 4080 Super more attractive.

But the discounts stop there. The RTX 4070 Super and Super Ti will launch at similar prices to their non-Super predecessors, priced at $600 and $800 respectively. With performance upgrades for both GPUs, the lack of price reduction doesn't seem to be an issue, as you'll get more bang for your buck.

Should I upgrade to RTX 4070 Ti Super, RTX 4070 Super or RTX 4080 Super?

If you haven't upgraded from an older GPU, like an RTX 3000 or RTX 2000 Series (or an older AMD GPU), Nvidia's GPU upgrade offers a huge advantage.

Dropping the price of the RTX 4080 Super to $999 is a good move, but it's still an extremely expensive GPU. Meanwhile the RTX 4070 Ti Super and RTX 4070 Super seem a much better proposition, especially the RTX 4070 Ti Super at $800. While there won't be absolute performance benchmarks until the GPU launches at the end of January 2024, they will definitely provide a boost, leading to many benefits for gamers.