NVIDIA GeForce RTX 5070 SUPER Specs Leaked: 6400 Cores, 18GB Memory, 275W Power

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The launch of the NVIDIA GeForce RTX 50 series of desktop graphics cards is complete with the introduction of the RTX 5050. This card is aimed at the low-cost segment, and also serves as a base product line. After that, NVIDIA will focus on the RTX 50 "SUPER" series for desktops, expected to launch around CES 2026.

The NVIDIA GeForce RTX 5070 SUPER is expected to be the successor to the GeForce RTX 5070. In terms of specifications, it looks like the RTX 5070 SUPER will be a significant upgrade over the standard model, thanks largely to the increased VRAM capacity. So let's start with the specifications.

The NVIDIA GeForce RTX 5070 SUPER is expected to use the "Blackwell" GB205-400-A1 GPU and the PG147-SKU65 motherboard. This chip will have 6,400 cores compared to 6,144 cores on the RTX 5070's GB205-300-A1 GPU. This equates to 50 SMs (multiprocessing units) compared to 48 SMs on the older GPU. The card will also have a TBP (power consumption) of 275W, up 25W (10%) from the 250W of the standard RTX 5070 model.

In terms of memory, the NVIDIA GeForce RTX 5070 SUPER will use 28 Gbps GDDR7 memory with a 192-bit bus interface, but instead of 12GB VRAM, the card will be equipped with 18GB VRAM. This upgrade comes from the use of the latest 3GB (24Gb) memory modules, allowing NVIDIA to integrate larger VRAM capacity on its SUPER versions.

This is a 50% upgrade in memory capacity, and with 18G, the RTX 5070 SUPER will be a solid choice for high-end gamers, surpassing the 16GB VRAM sweet spot of most high-end graphics cards today. The memory bandwidth of the RTX 5070 SUPER will remain the same as the Non-SUPER model. In summary, the RTX 5070 SUPER offers (compared to the RTX 5070):

1. Add 4.1% multiplier (6400 vs 6144)
2. 50% more vram (18gb vs 12gb)
3. Same memory bus & bandwidth (192-bit)
4. Same memory speed (28 gbps)
5. 10% higher power consumption (275w vs 250w)

The big question now is pricing. NVIDIA hasn't raised prices on its most recent "SUPER" models, so we can expect the same for the RTX 5070 SUPER. At $549, an 18GB RTX 5070 SUPER would be a strong contender.

Graphics Card Name	**NVIDIA GeForce RTX 5080 SUPER**	**NVIDIA GeForce RTX 5080**	**NVIDIA GeForce RTX 5070 Ti SUPER**	**NVIDIA GeForce RTX 5070 Ti**	**NVIDIA GeForce RTX 5070 SUPER**	**NVIDIA GeForce RTX 5070**
GPU Name	Blackwell GB203-450	Blackwell GB203-400	Blackwell GB203-350	Blackwell GB203-300	Blackwell GB205-400	Blackwell GB205-300-A1
SM (Multiprocessing Unit) Number	84 (84 Full)	84 (84 Full)	70 (70 Full)	70 (70 Full)	50 (50 Full)	48 (50 Full)
GPU Cores	10752	10752	8960	8960	6400	6144
Clock Speed	Not determined	2.62 GHz	Not determined	2.42 GHz	Not determined	2.51 GHz
Memory Capacity	24GB GDDR7	16GB GDDR7	24GB GDDR7	16GB GDDR7	18GB GDDR7	12GB GDDR7
Memory Bus	256-bit	256-bit	256-bit	256-bit	192-bit	192-bit

Memory Speed	32 Gbps	30 Gbps	28 Gbps	28 Gbps	28 Gbps	28 Gbps
Bandwidth	1024 GB/s	960 GB/s	896 GB/s	896 GB/s	672 GB/s	672 GB/s
Power Interface	1 12V-2x6 (16-Pin)	1 12V-2x6 (16-Pin)	1 12V-2x6 (16-Pin)	1 12V-2x6 (16-Pin)	1 12VHPWR (16-Pin)	1 12VHPWR (16-Pin)
Release Date	Not determined	January 30, 2025	Not determined	February 20, 2025	Not determined	March 5, 2025
TBP (Power Consumption)	400W+	360W	350W	300W	275W	250W
Price (USD)	Not determined	$999	Not determined	$749	Not determined	$549