RTX 5070 Ti Specs May Have Leaked, GPU Up to 300W

Nvidia has yet to provide any official information about its plans to commercially produce its next-generation high-end RTX GPU, which is expected to be called the RTX 5070 Ti.

Nvidia has yet to officially announce plans for its next-generation high-end RTX GPU, which is expected to be called the RTX 5070 Ti, but leaks continue to pour in.

The latest batch of reports from major tech leakers contain quite a bit of interesting information about the RTX 5070 Ti that seems to be actively being developed by Nvidia. According to famous hardware leaker Kopite7kimi, the RTX 5070 Ti will feature 8960 CUDA Cores, equivalent to 70 Streaming Multiprocessors. It is likely that the RTX 5070 Ti will be internally known as "PG147 and "SKU 60".

The core count suggests that the card uses the GB203 GPU, which is also what we expect to see in the RTX 5080. Additionally, the card is internally referred to as the PG147 and the SKU 60 further suggests that it's a cut-down RTX 5080. No surprises here — the RTX 4070 Ti Super also uses the same chip as the RTX 4080.

The RTX 5070 Ti will reportedly have a power consumption requirement of up to 300W. However, it's unclear whether this is a measurement of the maximum power draw (TGP) or the thermal design power (TDP) of the graphics card. Previous unconfirmed RTX 5070 leaks have said the GPU will have a power consumption of around 250W. Based on that data, it would make sense for the more powerful Ti version to consume an additional 50W of power.

Back to the core count issue. The RTX 5070 Ti is said to have 16% more cores than the RTX 4070 Ti, which is a significant increase, but only 6% more than the 4070 Ti Super. However, when compared to the 4080, we see that the 5070 Ti may fall behind current-gen GPUs, as it is said to have nearly 8% fewer cores.

Can we expect the RTX 5070 Ti to beat the upcoming last-gen RTX 4080? Probably. Real-world benchmarks show the RTX 4070 Ti beating both the RTX 3090 and RTX 3080. But there's still something to consider here, as the RTX 4070 Ti actually has fewer cores than the RTX 3080. This shows how other specs come into play.

Given the many architectural improvements in Blackwell, the CUDA core difference may not matter. There's also the performance-per-dollar metric to consider here, which could give the 5070 Ti the edge. Nvidia is expected to launch the RTX 50 series at CES 2025 in January next year, so it won't be long before we get some confirmation on the full specs of each GPU.