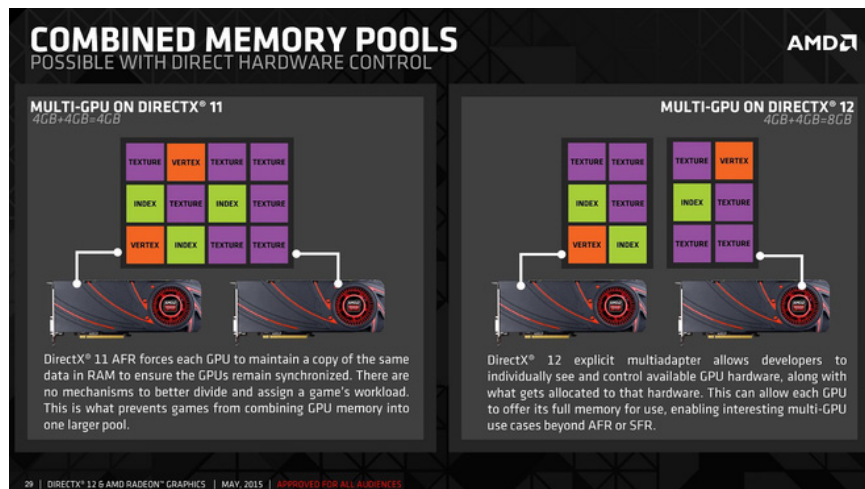


This is the simplest and most economical way to increase AMD Radeon RX 5700 performance up to 70%.

No need for complicated SLI or NVLink like NVIDIA's high-end graphics cards, just install 2 AMD graphics cards, even without the same type, you can increase up to 70% performance

From about 2018 and earlier, a PC configuration with 2 or more graphics cards has always been the dream of many technology enthusiasts. Not to mention, this is also an economical solution to achieve the performance of top-class graphics cards (for example, two GTX 1070s can bring the performance equivalent to GTX 1080 Ti with at least \$ 100 cheaper). . However, in the past two years, the trend of building compact machines to the throne and AMD and NVIDIA itself are no longer really plagued, which makes few users bother to use multiple graphics cards. Of course, there are still a small number of users who will need to cater to specific needs. Some users on the internet have tried to combine a Radeon RX 5700 and an RX 5600 XT to see how the effect is achieved.



In recent years, AMD's Crossfire solution has been replaced by XDMA, a protocol that helps to combine the power of graphics cards in a system on PCIe. Meanwhile, Crossfire's counterweight is NVIDIA SLI has been replaced with NVLINK and only available on high-end graphics cards (RTX 2070 and above). In theory, AMD's XDMA does not support two different graphics cards, but through the DirectX 12 and API graphics APIs (the two most popular APIs by game developers today), this has been realized. chemistry.

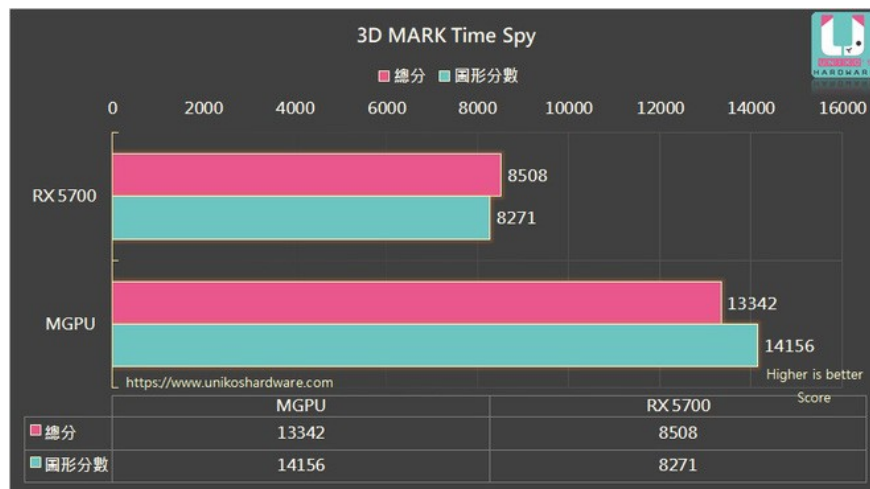
One problem to note is that due to not being really optimized, we will only get the parameters of Rise of The Tomb Raider and Strange Brigade, 2 games that run well without crashing.

Configuration used for testing:

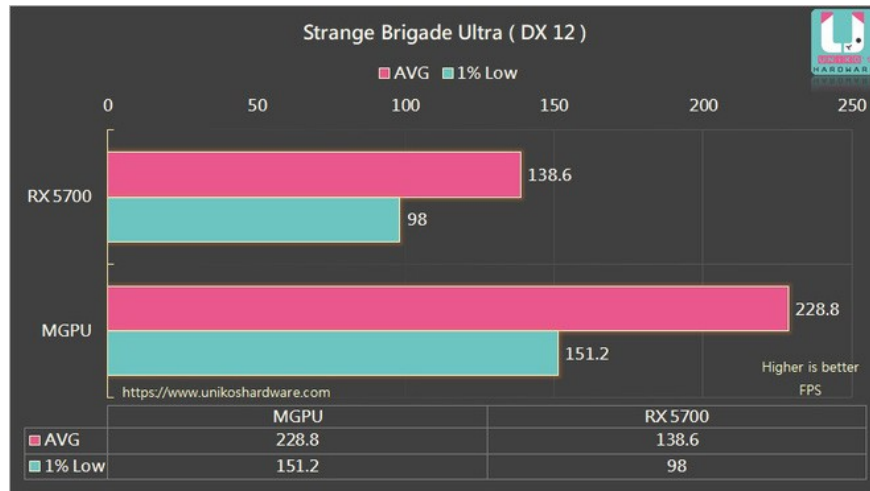
- CPU: AMD Ryzen 7 3700X
- Mainboard: ASRock X570 Taichi
- RAM: 16GB 3200MHz
- SSD: 512GB
- GPU: ASUS Radeon RX 5700 Dual EVO (8GB) in combination with ASUS Radeon RX 5600 XT TUF3 EVO Gaming (6GB). Both run on AMD Adrenaline Radeon Software driver 20.2.1.



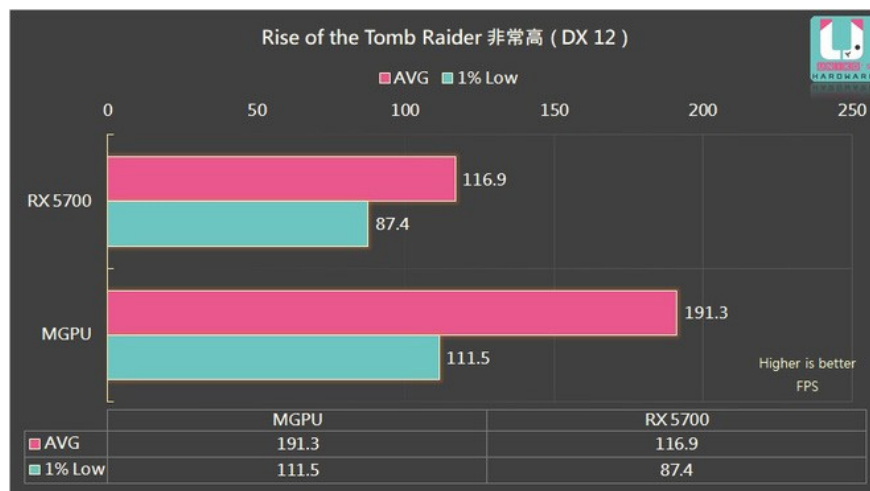
In terms of power consumption, the tested graphics card combo has an increase of 70% compared to an RX 5700 alone.



In terms of 3Dmark Time Spy, RX 5700 and RX 5600XT combos achieved 14,156 graphics points and 13,1342 points overall. That's 72% higher than a single-run RX 5700.



Regarding the game, when playing Strange Brigade at Ultra setting (DX12), this combo averages 228.8 FPS and a low 1% rate to 151.2 FPS. Meanwhile, an RX 5700 can only reach 138.6 FPS and 98 FPS respectively. Thus the difference in performance is about 65%.



Similar to the Rise of The Tomb Raider, the figures are 191.3 FPS and 111.5 FPS when combined and 116.9 FPS and 87.4 FPS respectively when running RX 5700 separately. The figure is 71.6%. It turns out, with the power consumption increasing by about 70%, the investment also increasing by about 70%, we achieve the performance corresponding to that number.

Of course, it's undeniable that even without official support from AMD as well as game developers, these are very promising numbers. Hopefully multi-graphics cards will return to the trend, especially for gamers who do not need comprehensive upgrades every 1-2 years.

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