

Is the Intel HD Graphics 620 graphics card strong? What games can you play?

Intel HD Graphics 620 is known to many users as an onboard graphics card equipped on the CPU. Follow this article!

Recently, Intel HD Graphics 620 is known to many users as an onboard graphics card equipped on Intel's 7th generation Kaby Lake CPU. So what makes it outstanding? Let's find out with TipsMake.

What is Intel HD Graphics 620?

Intel HD Graphics 620 is an onboard graphics card integrated into Intel 7th generation Kaby Lake computer CPUs.

HD Graphics 620 includes 192 shading units, 24 texture map units and 3 ROPs. Thanks to that, the GPU operates at a frequency of 300 MHz or up to 1050 MHz.

Picture 1 of Is the Intel HD Graphics 620 graphics card strong? What games can you play?

Specifications table of Intel HD Graphics 620

Processor graphics	Graphics base frequency	Dynamic Frequency Graphics	Maximum video graphics memory	Graphics output
Intel UHD 620 Graphics	300 MHz	1.00 – 1.15 GHz	32 GB	eDp/DP/HDMI/DVI
4K support	Maximum resolution (HDMI 1.4)	Maximum resolution (DP)	Maximum Resolution (eDP – Integrated Flat)	
Yes 60Hz	4096 x 2304 @ 24Hz	4096 x 2304 @ 60Hz	4096 x 2304 @ 60Hz	

Advantages and disadvantages of Intel HD Graphics 620

Like many other graphics cards, Intel HD Graphics 620 also has many outstanding advantages and certain limitations. Below are the pros and cons of Intel HD Graphics 620:

Advantage

The most outstanding advantage of **Intel HD Graphics 620** is its **low power consumption** . Thanks to this improvement, the computer is designed to be lighter, saves battery power, but still integrates many beneficial features. user.

Compared to Intel HD Graphics 520, Intel HD Graphics has 10 - 25% superior performance . But in the 7th generation Core i version, the performance of this graphics card line is only stable and nothing outstanding.

Typically: Core i5 Kaby Lake is equipped with Intel HD Graphics 620 GPU and 24 EU execution units with GPU clocks ranging from **300 - 1000 MHz** . These parameters are relatively similar to Intel HD Graphics 520 found in Core i5 Skylake.

Picture 2 of Is the Intel HD Graphics 620 graphics card strong? What games can you play?

When evaluating the graphics processing performance of games for the Intel HD Graphics 620 through 3D Mark Cloud Gate, it was found that it has a processing speed 7% faster than the Intel HD Graphics 520 of Skylake.

In addition, Intel HD Graphics 5500 also loses 27% compared to Intel HD Graphics 620 in terms of performance.

Compared to the Iris line that often appears on high-end Intel CPUs, the Intel HD Graphics 620 on Kaby Lake has almost the same performance.

In particular, for Kaby Lake Refresh (8th generation) with this CPU integrated, the GPU has been upgraded to UHD Graphics 620, allowing users to watch videos with 4K quality resolution.

Defect

1. Although it has been developed and upgraded, if comparing the performance of onboard cards, Intel HD Graphics 620 is still not highly rated compared to discrete graphics cards.
2. For users who play heavy games or frequently render movies, the Intel HD Graphics 620 is not the optimal choice.

What games can Intel HD Graphics 620 play?

Based on the definition above, **Intel HD Graphics 620** is a type of onboard video card equipped on the CPU that uses power from RAM and the CPU to operate.

At the present time, the gaming community has many positive reviews about HD Graphics 620. Because it can operate smoothly on many different games. In particular, by simply adding RAM of a different range or more, users will experience a variety of gaming platforms through the onboard VGA Intel HD Graphics 530.

The answer to the question of what games Intel HD Graphics 620 can play will be affected by factors such as: CPU, RAM and SSD hard drive. Below is TipsMake's detailed analysis so you can more easily review.

Picture 3 of Is the Intel HD Graphics 620 graphics card strong? What games can you play?

For Vga onboard Intel HD Graphics 530 can operate smoothly on current HOT games such as: Dota or LOL. In addition, users can equip **Dual - Channel** to improve GPU performance in CSGO VRAM if they want to

experience CSGO.

Intel HD Graphics 620 can also play FIFA Online 4: The lowest configuration to experience FIFA Online 4 is: GT 730 video card, 4GB ram, i3 2100 chip and DirectX 11. Intel HD Graphics 620 can easily run the title. this famous game.

At the same time, with Intel HD Graphics 620 you can also play PUBG smoothly, at max settings. With PUBG, users are allowed to install most effects and upgrade game versions while still achieving smooth, stable speed.

Epilogue

TipsMake's above article has helped you answer questions related to Intel HD Graphics 620. If there is anything unclear about this type of graphics card, please leave a comment below.

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