

How does the Intel HD Graphics 520 graphics card perform?

Is the Intel HD Graphics 520 graphics card performance strong? Why is it favored by many people today? Find out through the article now!

When choosing to buy a laptop, users are very interested in the graphics card factor. Currently, Intel HD Graphics 520 is one of the most popular graphics cards. If you want to learn more about this line of graphics cards, don't miss the following TipsMake article.

What is Intel HD Graphics graphics card?

Intel HD Graphics graphics card is one of the video cards (GPUs) manufactured by Intel. Intel HD Graphics graphics cards have a compact design and are integrated on the processor lines in the computer's CPU chip, helping to bring many benefits to the computer such as lower power consumption and computer cooling.

What is the Intel HD Graphics 520 graphics card?

Intel HD Graphics 520 (GT2) graphics card is an integrated graphics card of the Intel HD Graphics line, users can find GT2 in ULV (Ultra Low Voltage) processors of the Skylake generation. GT2 instances provide 24 EUs (execution units) at speeds up to 1050 MHz.

The GT2 graphics card line also possesses many advantages of Intel HD Graphics video cards such as compact design, built into the CPU chip and helps cool the computer as well as reduce power consumption. However, it should be noted that for the computer to operate well, the HD Graphics 520 is required to access main memory because this card line is not equipped with eDRAM cache or dedicated graphics memory.

Picture 1 of How does the Intel HD Graphics 520 graphics card perform?

How is the performance of Intel HD Graphics 520?

Currently, the performance of HD Graphics 520 depends on many different factors such as system memory configuration (DDR3 or DDR4), L3 cache size as well as maximum clock speed for each model.

In particular, the most powerful version of Intel HD Graphics 520 (integrated on Intel Core i7 - 6600U) provides processing performance equivalent to nVIDIA GeForce 820M discrete graphics card. This version allows users to play games released in 2015 well with low settings.

Laptop display screen when using Intel HD Graphics 520

The display can be connected internally via **DP 1.2/eDP 1.3** (maximum resolution 3840 x 2160 at 60 Hz), while HDMI is limited to the older version 1.4a (maximum resolution 3840 x 2160 at 30 Hz). However, HDMI 2.0 can also be connected using an adapter, allowing up to 3 displays to be connected simultaneously.

How does Intel HD Graphics 520 consume power?

Intel HD Graphics 520 is integrated into processors with a power consumption of 15 W TDP and is therefore suitable for compact laptops and notebooks.

What games can Intel HD Graphics 520 play?

Although Intel HD Graphics 520 is an integrated graphics card, it still allows users to play some of the games below very smoothly. Specifically:

1. Game GTA 4

As one of the most attractive offline PC games of all time, GTA 4 is produced by Rockstar and is loved by many players. Launched in 2008 and up to now, this game is still a name that has great appeal to gamers.

Picture 2 of How does the Intel HD Graphics 520 graphics card perform?

If you are wondering and have not found a suitable game with Intel HD Graphics 520 graphics, GTA 4 is not a bad suggestion for you. Accordingly, the manufacturer has announced the minimum configuration level when playing GTA 4 game that needs to meet the following:

Minimum configuration level when playing GTA 4 game :

| Configuration | Specifications |
|---------------------|---|
| RAM | 1.5 GB |
| CPU | AMD Athlon X2 64 2.4Ghz Intel Core 2 Duo 1.8Ghz |
| Graphics | AMD ATI X1900 256MB NVidia 7900 256MB |
| Hard drive capacity | 16 GB |

Recommended configuration when playing GTA 4 game :

| Configuration | Specifications |
|---------------------|---|
| RAM | 2 GB (Win XP) 4 GB (Windows 7, Windows 10) |
| CPU | AMD Athlon X2 64 2.4Ghz Intel Core 2 Duo 1.8Ghz |
| Graphics | NVIDIA 8600 512MB ATI 3870 512MB |
| Hard drive capacity | 18 GB |

2. Game Diablo 3

Game Diablo 3 is a classic adventure role-playing game researched and developed by Blizzard. Fans of role-playing games will certainly not feel unfamiliar with this game. Diablo 3 game supports players on both Windows and macOS platforms.

Picture 3 of How does the Intel HD Graphics 520 graphics card perform?

In particular, Diablo 3's configuration is not too demanding. With a computer that owns the Intel HD Graphics 520 card series, you can experience this game in the smoothest way.

On Windows configuration requirements :

| Configuration | Specifications |
|----------------------|--|
| Operating system | Windows 7 or later |
| RAM | 2 GB |
| CPU | AMD Athlon™ 64 X2 Intel® Core™ 2 Duo or better |
| Graphics | NVIDIA® GeForce® 8800GT Intel® HD Graphics 4000 ATI Radeon™ HD 2900 XT |
| Hard drive capacity | 25 GB |

On macOS configuration requirements:

| Configuration | Specifications |
|----------------------|---|
| Operating system | OS ? 10.11 |
| RAM | 4 GB |
| CPU | Intel® Core™ 2 Duo Intel Core i3 or higher |
| Graphics | NVIDIA® GeForce® 320M HD Intel® 4000 ATI Radeon™ HD 4670. |
| Hard drive capacity | 25 GB |

3. Game League of Legends

League of Legends (LOL) is a game with a huge number of players globally. The reason why the game League of Legends is so attractive is due to many different reasons and one of them is the game configuration.

League of Legends does not require players to own a computer with high configuration. Instead, you can experience the game smoothly with just a mid-range computer. If you are looking for an entertaining game that is worthy of an Intel HD Graphics 520 card, League of Legends is an option that you should not miss.

Picture 4 of How does the Intel HD Graphics 520 graphics card perform?

Minimum configuration when playing League of Legends :

| Configuration | Specifications |
|----------------------|---|
| Operating system | Windows 7, 8.1, 10 |
| RAM | 2 GB |
| CPU | Processor speed 3 GHz (with support for SSE2 or higher) |

| Configuration | Specifications |
|----------------------|-----------------------|
| GPU | Shaders version 2.0 |
| DirectX | Version 9.0 or higher |
| Hard drive capacity | 12GB |

Suggested configuration when playing League of Legends :

| Configuration | Specifications |
|----------------------|--|
| Operating system | Windows 7, 8.1, 10 |
| RAM | 4 GB |
| CPU | 3 GHz dual core processing speed |
| GPU | Nvidia GeForce 8800 AMD Radeon HD 5670 (integrated VRAM 512MB or more) |
| DirectX | Version 9.0 or higher |
| Hard drive capacity | 12GB |

4. Game Dota 2

The game Dota 2 was born and quickly received a lot of attention from the gaming community who love real-time tactical action games. It is known that Dota 2 has not too great graphics. Therefore, to be able to experience the game, gamers do not need to own a computer with too high configuration.

Picture 5 of How does the Intel HD Graphics 520 graphics card perform?

Players can absolutely play Dota 2 on old computers or PCs with configurations from 2010 or higher. The following are the machine configuration requirements announced by the manufacturer:

Minimum configuration to play Dota 2 game :

| Configuration | Specifications |
|----------------------|---|
| Operating system | Windows 7, 8, 8.1, 10 64bit or higher |
| RAM | 4 GB |
| CPU | Intel dual-core chip AMD 2.8 GHz |
| GPU | nVidia GeForce 8600/9600GT ATI/AMD Radeon HD2600/3600 |
| DirectX | Version 9.0 or higher |
| Hard drive capacity | 8 GB |

Configuration requirements to play Dota 2 game :

| Configuration | Specifications |
|----------------------|---|
| Operating system | Windows 7, 8, 8.1, 10 64bit or higher |
| RAM | 4 GB |
| CPU | Intel Core 2 Duo E7400 2.80GHz AMD Athlon 64 X2 Dual Core 5600+ |
| GPU | AMD Radeon HD 2600 Pro NVIDIA GeForce 8600 GTS 512MB |

| Configuration | Specifications |
|----------------------|-----------------------|
| DirectX | Version 9.0 or higher |
| Hard drive capacity | 8 GB |

5. Game World of Warcraft

Game players will have the opportunity to experience a sparkling, colorful new world right in the game World of Warcraft. However, this is also a barrier because beautiful graphics will come with higher configuration requirements. However, computers that own Intel HD Graphics 520 can run smoothly when playing this game and bring the best experience to gamers.

Picture 6 of How does the Intel HD Graphics 520 graphics card perform?

Reference configuration if you want to play World of Warcraft game is as follows:

Minimum configuration when playing World of Warcraft game :

| Configuration | Specifications |
|----------------------|------------------------------------|
| Operating system | Windows XP, Vista, 7 |
| RAM | 2 GB (1 GB for Windows XP) |
| CPU | Intel Pentium D AMD Athlon 64 X2 |
| GPU | NVIDIA GeForce 6800 |
| Hard drive capacity | 25 GB |

Suggested configuration when playing World of Warcraft :

| Configuration | Specifications |
|----------------------|---|
| Operating system | Windows 7 x64 (SP1) |
| RAM | 4 GB |
| CPU | Intel Core 2 Duo 2.2 GHz AMD Athlon 64 X2 2.6 GHz or higher |
| GPU | NVIDIA GeForce 8800GT or better |
| Hard drive capacity | 25 GB |

Epilogue

Above is a summary of the most general information about the popular Intel HD Graphics 520 graphics card today. Hopefully you have a clear understanding of this card line and can choose the card type that suits your needs. Thank you for following the article.

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