

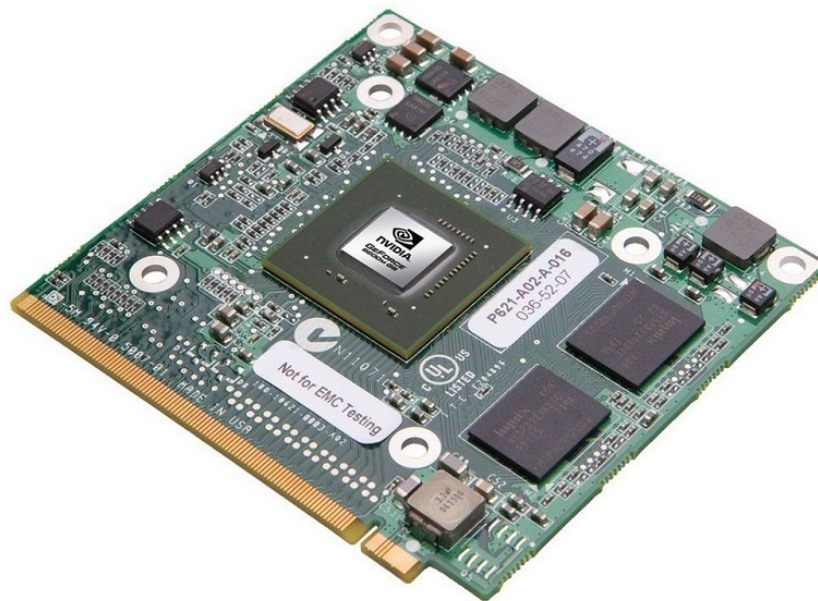
Tips for upgrading laptop graphics card effectively

Upgrading your laptop's graphics card helps you have great graphics experiences, while eliminating concerns about common laptop graphics card errors.

Upgrading a laptop graphics card is a way to improve graphics performance and enhance the user experience with a laptop. So when is it necessary to upgrade a laptop graphics card? In the article below, TipsMake will share these experiences with you.

Some features of laptop graphics card

What is a laptop video card?



Laptop video card or laptop VGA is a part of the laptop that helps process and display images. The video card will adjust image information such as contrast, resolution,. through connection to the screen, the user can manipulate and work with the computer.

The more powerful the VGA, the faster the processing speed, the more detailed and sharp the displayed image quality. Most gaming computers today are chosen by gamers based on the graphics card, before considering other factors. Simply because VGA plays an important role and is often the most valuable of laptop components.

Because graphics requirements increase over time, especially AAA games, many users need to **upgrade their laptop's graphics card** to improve the graphics performance of their device.

How many types of laptop graphics cards are there?

Onboard graphics card

This is a type of laptop graphics card that is integrated into the CPU or integrated on the north bridge chipset of the mainboard. The onboard card operates thanks to the power of the CPU and temporary memory (RAM) to process images.

Nowadays, with the development of technology, onboard cards are increasingly upgraded significantly. However, the gaming experience and image processing on onboard cards still do not really satisfy gamers like discrete VGA cards.

One thing to note is that you cannot *upgrade the laptop's onboard graphics card*. Replacing the onboard card is equivalent to replacing the laptop's CPU.

Laptop VGA card

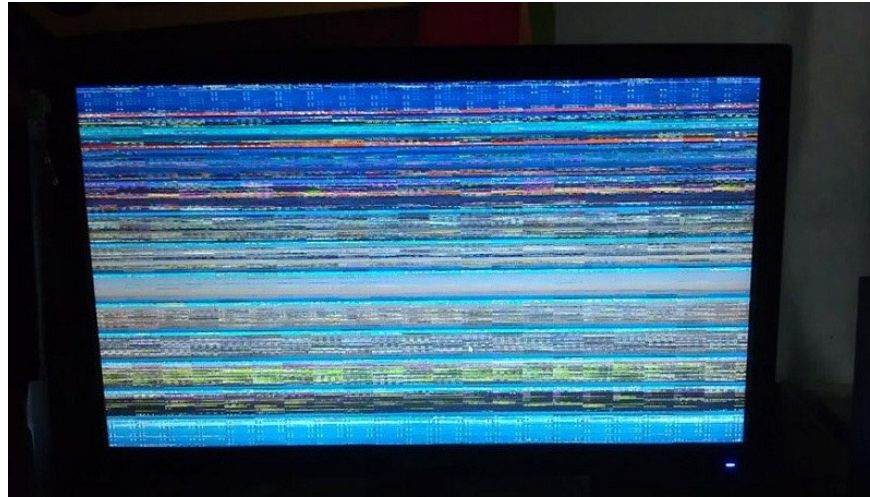
A discrete graphics card is a card that contains a separate graphics chip on a circuit board and works with the motherboard in two ways.

- Solder the video card to the laptop's circuit board (this type is very difficult to upgrade).
- Works by connecting via a communication port. This type can usually upgrade laptop graphics cards (workstation laptops or gaming laptops).

Therefore, before deciding whether to **upgrade your laptop's graphics card** or not, you should check what type of graphics card it is and whether it is convenient to upgrade or not.

Some common laptop video card errors

In the process of using a laptop, *laptop video card errors* are a common case that most people have encountered. There are many causes of laptop video card errors, of which heat and driver errors are the most common.



Signs of *laptop video card error* :

- Laptop screen may have horizontal stripes, vertical stripes,.
- When entering Win, the video card is recognized as a blue Dump.
- Video card fan not spinning.
- Macbook laptop hangs on white apple screen.
- When opening heavy applications, the laptop automatically closes the applications or turns off the power.
- Depending on different machine models, there are default beeps.

When you encounter one of the above signs, you should consider **upgrading your laptop's graphics card** to ensure work efficiency.

Criteria to note to effectively upgrade laptop graphics card

Below are some criteria TipsMake wants to share with you to make the process of **upgrading laptop graphics card** most effective and economical.

1. Balance costs based on graphics card usage needs

Depending on the purpose of using the graphics card for graphic design, gaming, 4K video experience,. Or just using the computer for normal activities such as word processing, web surfing,. To decide to upgrade the laptop graphics card accordingly.

1. Laptop graphics card performance



The performance of a laptop's graphics card determines its image processing capabilities, display speed, and image resolution quality. It is also important to note that the higher the performance, the faster the card will heat up and a suitable cooling system is needed to avoid damage.

1. Nvidia or AMD video card

If your goal of **upgrading your laptop's graphics card** includes graphics work, Nvidia will be a wise choice. But if you want to upgrade your laptop's graphics card for gaming, both Nvidia and AMD have their own advantages and strengths.

1. Temperature

The cooling system of the graphics card is an important factor that helps your device operate stably and durably. Because when using a laptop for a long time, the card will quickly heat up and if not cooled down, it will automatically reduce the operating frequency, significantly reducing the durability of the device.

1. Size and capacity



When **upgrading your laptop's graphics card**, you also need to pay attention to the size so that the card can be compatible with your laptop. At the same time, make sure the card mounting location is clear and not entangled with other components inside the machine.

In addition, you need to pay attention to the power source, enough to meet the card's operation. The video card or even the laptop can be damaged if using a power source with too small a capacity.

Prestigious laptop graphics card upgrade address



TipsMake is a reputable address specializing in providing genuine graphics cards from major brands such as: ASUS, MSI, GIGABYTE. When **upgrading laptop graphics cards** at HACOM, you will enjoy the best price and quality customer care service.

All customer inquiries will always be answered by our experienced staff. The purchasing process is simple and easy to implement, you can sit at home and choose products on the website, there will be free delivery nationwide, you can check the goods before paying.

Moreover, TipsMake always has attractive promotions with discount codes and gift vouchers for customers. Contact TipsMake immediately on the website or hotline 1900 1093 for more detailed support and advice.

Conclude

Above are the shares of TipsMake about **upgrading laptop graphics cards** and common *laptop graphics card errors* . Hopefully through this article will help you better understand graphics cards and can choose to use them most appropriately.

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