

Differences between SSD and HDD hard drives

HDD and SSD drives are the two most popular storage devices today. In particular, HDD (Hard-disk-drive) is traditional and SSD (Solid-state-drive) is a new type of hard drive in solid form. Basically both of these hard drives are used to store data, so many users often confuse SSD and HDD hard drives no difference.

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Therefore, in the article below we will point out the differences between HDD and SSD drives in a clear and useful way for all users. From there, it helps you have the right look and at the same time easier when choosing to buy a computer hard drive.

1. The real difference between SD Card and SSD card
2. Things to know when upgrading hard drives to SSDs for laptops
3. Signs that you should replace the hard drive

The price of SSD and HDD

HDD drives are priced much lower than SSDs. Although prices have fallen compared to the early period, SSDs are still three times more expensive than HDDs with the same storage capacity. For example, a 1 TB drive, you only pay 2 million (VND) for HDD 2.5 inches, but with SSD will be 11 million (VND).



Hard drive write speed between SSD and HDD

SSD shows the read and write speed is more dominant than HDD, the easiest way to identify it is through the laptop boot process. A computer using an SSD only takes a few seconds to a few tens of seconds to boot while if

using a HDD it will take about 1 minute or longer, this speed is also true in the tasks on the machine, using the painting or playing games. SSD read and write speeds will range from 80MB to 300MB, with HDDs below 100MB. However, if you have a need to store instead of experiencing speed, you should choose HDD because a HDD has a storage capacity many times larger than the SSD in the price range.



Hard drive fragmentation between SSD and HDD

You may not know, HDD is a metal disk covered with a magnetic layer, used to store data. When the spinning drive starts to spin, a metal bar will have a function to read and write data. Fragmentation occurs when data is scattered on the surface of the rotating disk. But with SSDs, it is completely different, inside SSDs are flash memory chips that are linked together, so it will definitely be less fragmented than HDD hard drives and work better.



See also: [When and how to defragment hard drives on Windows 10?](#)

About the durability of SSD and HDD

SSDs all use electronic devices as memory, so when you use an SSD, the data will be transmitted to the SSD directly, on the other hand, the HDD will always turn the disc to perform data writing. . Therefore, in some cases, if you drop your computer backpack or your system is shaken by an earthquake while it is operating, you can be more comfortable using SSD. Moreover, SSD's uptime and durability are also considered to be much longer than HDD.

Noise comparison of SSD and HDD

HDD manufacturers have tried to keep their HDDs running in the smoothest way, but after a long time of use, the HDD is also hard to avoid noise when recording to the disk surface. . In contrast, SSD drives have almost no noise when operating, because they don't have many metal structures.



Power consumption between SSD and HDD

Because there is no need for extra power to spin the disc surfaces, SSD drives consume very little power, compared to HDD, SSD consumes 4 times lower power.

About the popularity of SSD and HDD

In terms of the popularity of the two types of hard drives, HDD drives have a richer number than SSDs. A list of a wide range of products such as Western Digital, Toshiba, Seagate, Samsung, and Hitachi clearly shows this. For desktops and Macs, the internal HDD will not be fully removed, at least for the next few years. You will also see more choices with HDD from different manufacturers for the same storage capacity. Although SSD drives are still on their way to growing numbers, hard drives are still the majority of storage devices in personal computers.



Above are the differences between HDD and SSD drives, it can be seen that SSD is a better choice if you have enough financial resources to serve the needs of working and entertainment with access capabilities. data, longer durability. If you have normal entertainment needs, the current HDD is enough to meet you with the advantage of much cheaper price than SSD.

See more:

1. Instructions for checking the temperature of CPU, VGA, hard drive of computer, laptop
2. How to check hard drive health in 3 ways
3. Computer hard drive is fast, why?

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