

How long can SSD hard drive live?

The question of how long an ordinary SSD will survive is in the minds of many people and we will find the answer in the article below!

If users used to use traditional hard disk drives as HDD, Hard - disk - drive stands, today SSD drives are more dominant. However, there is a big problem that most users care about is the life of this new type of hard drive. The question of how long an ordinary SSD will "survive" is probably in the minds of many people and we will go together to find the answer in the article below!

1. Find out how SSD drives work
2. Differences between SSD and HDD hard drives
3. Things to know when upgrading hard drives to SSDs for laptops

According to HowToGeek technology page, there has been a lot of research about the actual life of an SSD, but the results are still unclear and have not made users feel secure to choose SSD as a solution. Main replacement HDD. Currently, in the SSD market has been growing quite strongly, the capacity of SSDs is also increasing, the price tends to decrease. And the research on SSD life also gradually gained remarkable results.



The good news for computer users is that SSDs have a much longer lifespan than most users once thought, and can match HDD in terms of reliability. On the contrary, the bad news is that SSDs tend to fail after a long time of use, the cause of the error is that its life is high, not related to the number of read-write times as some previous articles. This has indicated.

From the above results, you should not be too worried about the loss of data when using SSD, by equipping a PC system to use the entire SSD hard drive for the same efficiency as HDD in terms of data storage. Data, while the access speed is much higher.

Since then, a conclusion has been made: In a high-frequency working environment that requires fast read speeds, SSDs will live longer than HDDs, but often suffer from more errors. In addition, "older" SSDs are more likely to "die unexpectedly" without knowing the total amount of terabytes recorded.



Research conducted by Facebook on the lifespan of SSDs used in industrial data systems:

Mainly focusing on the impact of the working environment on SSDs, this study said that frequent exposure to high temperatures reduces SSD life. Another interesting thing that the team found is that if the SSD does not "die" after the first serious error is detected, it will live a long time longer than the lifespan of the health diagnostic software. Hard forecast.

Facebook's research identifies the frequency of reading and writing data that has a great impact on hard drive life, which is in stark contrast to Google's above study. However, it is unclear whether Facebook will pay attention to the current lifespan of the SSDs they are testing.

Conclusion Facebook suggests that SSDs will live much longer than the hard drive diagnostics software announces, because the software relies on the three factors mentioned above, and as mentioned. With different conditions, these factors lead to different results.

So how long does the SSD last?

To summarize the last 3 studies, we learned that your SSD will live so long that when you are about to dispose of the old unit to upgrade to a new machine, they will still work. Good for a while longer.

In accordance with the studies of SSD lifespan, SSDs may "die" in about 1-2 years, but you should remember that in case they are used in extreme industrial data centers large, with extremely high read-write frequency, almost 24/24 every day of the year. Furthermore, the research teams also apply very heavy tests to SSDs.



Imagine how long it takes a universal user to reach 1000 terabytes recorded on the hard drive? Perhaps this number must come within a decade or so. Even gamers, it is difficult to reach the maximum level that the manufacturer offers.

So, you can rest assured about the expiry date of the SSD. However, like other electronic components, SSDs can still "die" after an electric shock, fire, explosion, . Therefore, to prevent any worst case can happen. At any time, you can choose a reputable cloud data backup service or retrofit your computer a second hard drive, which can refer to some of the best SSD hard drives for Windows computers.

See more:

1. Notes when buying a computer hard drive
2. How to check the standard hard drive of GPT or MBR
3. Remove the USB drive when the computer is in sleep mode (Sleep) is it safe?

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