

2011 laptop changes

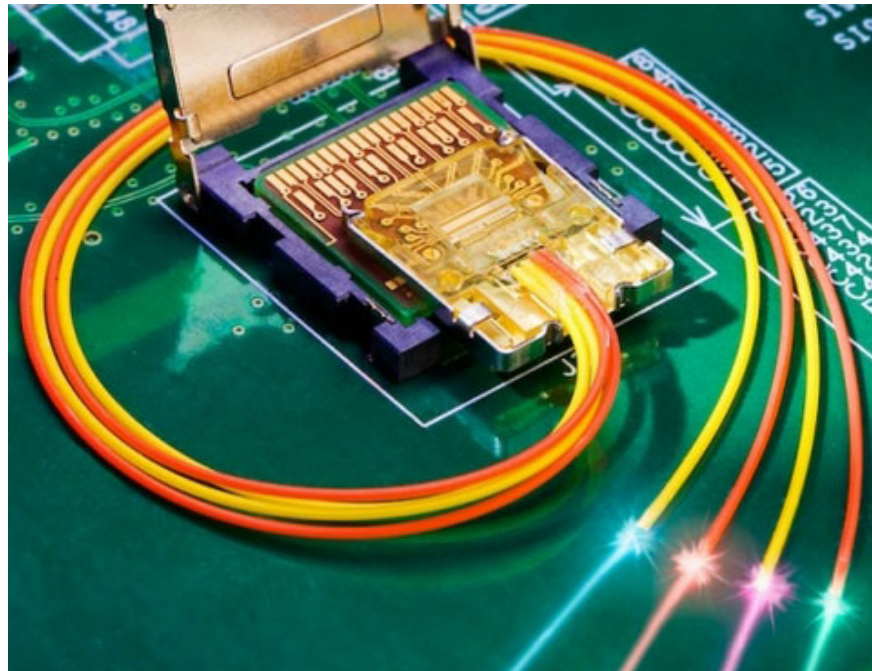
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Computer manufacturers are always racing to make dramatic changes to their laptops that outperform others. For example, the configuration is 'more terrible', using a new generation graphics chip, towards better entertainment, eliminating unnecessary components, .

Here are the major improvements of laptops in 2011:

Faster data transfer

For many years, most laptops often use typical USB 2.0 connectors. However, data stored by users increases rapidly and requires connection ports to have faster data transfer rates.



For example, last year, we saw a few arrogant laptops with USB 3.0 ports and predicted that the standard would be popular for laptops later this year. This connection standard for theoretical speeds can be up to 4.8Gb / sec, 10 times higher than current USB 2.0 (480Mb / s). However, the actual testing of this speed is only two or three times faster than the old standard but that is not a bad speed either.

But that was not really exciting when Intel announced Light Peak technology supporting 10Gb / s speed by using fiber optic cable instead of copper cable. Apple's new Macbook Pro computer may apply this technology but

with the nickname 'Thunderbolt'.

Hybrid drives

Most laptops today come with traditional hard drives (HDD). Means of magnetic storage are cheaper than other solid state (SSD) drives. Flash-based solid state drives have created a more advanced segment like the Macbook Air and they offer faster speeds, anti-vibration, noise-free and better endurance if encountered with shocks. physical. Laptops equipped with the highest-end SSDs range in size from 128 to 256GB, with negligible capacity compared to conventional hard drives today.



Hybrid drives are basically regular drives that incorporate SSDs of small capacity. How will this help? Operating system files will be installed in the SSD to provide faster access, and the hard drive will store user data. Therefore, the computer can boot very fast similar to PCs equipped with SSDs. This will help them with large storage capacity with reasonable price, while saving power.

The Windows operating system is ready to support those drives thanks to a feature called 'ReadyDrive', which appears from the Vista version. Turning off the eyebrow quickly is like on a Macbook Air computer. This is expected to be equipped on laptops this year.

Integrate more on a single chip

As we know, the central processor (CPU) consists of units such as ALU (logic computation), Memory Registers, Control Unit, . and unit control units and graphics are set separately from CPU and the same on the motherboard. But the current trend is that these components will be integrated on a single chip and the size is getting smaller (now 32nm).



Intel's recent Atom processor and Sandy Bridge top-of-the-line crossover have graphics processors and on-chip memory control. Even AMD's "APU" Fusion platform has a lot of similarities. As a result, communication between these components will be faster and more efficient, due to improved performance and even power savings.

Wireless trends on larger screens.

Today, most laptops have HDMI ports to directly connect high definition with large-screen LCD TVs or projectors. The great thing about HDMI is that they use a single cable to transmit audio and video to noise reduction.



With the advancement of wireless technology and processing power, we are on the verge of transferring wireless content from laptops to larger screens. Intel calls it WiDi technology, Apple calls it 'AirPlay'. WiDi requires you to buy a small box that connects wires to the TV and accepts transmission from the laptop via Wi-Fi. Meanwhile, Apple requires you to buy Apple TV to be able to sync with your computer.



So basically you can play your favorite movies stored on your laptop on larger LCD TVs or for presentations.

3D display



Last year, users could see 3D laptops with auxiliary glasses but were not really impressed when they had to have glasses to view 3D images on a computer and the price was not cheap. But at the end of this year, the laptop will come out with some mid-range models, even if they can't replace PC games, but can watch 3D videos.

Extinction of optical drive

Years ago, imagining a PC without a CD drive would be a major shortage but would it be necessary now? Thanks to its high speed, unlimited Internet access and USB-based storage is really cheap, it can re-use and store more data than both Blu-ray and DVD discs.



As more and more people don't opt ??for optical media for data transfer, more laptop manufacturers will go that way. Recognizing the abundance of optical drive for laptops, manufacturers can take advantage of the space available for more efficient drives. That could be for a bigger battery or a thinner laptop instead of a DVD drive.

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