Microsoft and Qualcomm introduced Windows 10 running ARM chips all day without running out of batteries

Another small challenge for Intel's dominance on the PC.

Today, Microsoft and Qualcomm officially revealed Windows 10 laptops running ARM chips. HP, Lenovo and Asus will be the manufacturers of this new laptop, using Qualcomm's Snapdragon 835 processor. Basically, they will look like 2-in-1 laptops / tablets that we still see (using Intel processors), but the main difference is that running Windows 10 and using Qualcomm processors.

Previously, Microsoft introduced Photoshop to run on the ARM version of Windows 10, they also introduced a special simulator to run old x86 applications on these new devices. They look just like regular laptops, running most of the software you still use. HP and Asus have introduced new laptops today, while Lenovo will have to wait a few more weeks.

The HP Envy x2 laptop

The question is why are these devices needed? Microsoft partnered with Qualcomm to create 'always-on' PCs to always connect to LTE and work as if on an iPad, not a regular Windows laptop.

This means that when you turn on your laptop, you can start working immediately, or fold your device without worrying about battery drain. These devices have battery life and LTE connectivity not seen on any Windows-based laptop.

HP and Asis will have Windows 10 S to only run applications from the Windows Store, but people will have to upgrade to Windows 10 Pro for free (at the present time) to install all applications.

See also: If you don't hurry up, you can't upgrade to Windows 10 for free

Microsoft originally let Windows 10 run on ARM chipsets, so all Windows, Edge or shell processes run without emulation. Microsoft also chose the best third-party desktop applications and included in the new DLL system.

Users can download most 32-bit exe files on the network and install on ARM laptops. Except that 64-bit Windows applications are not supported and Microsoft does not support applications that use Kernel Mode. This means that most third-party antivirus software will be incompatible, many games using anti-fraud software will not work either.

Other software such as Photoshop, Office or Chrome run normally. The problem is how they work compared to Intel chip machines when they are supposed to run all day, not to charge regularly. The first machines ran for 20 to 22 hours but in reality could be shorter.

There is also to wait and see if this cooperative product is as expected. Microsoft has also partnered with Nvidia to release a Windows RT tablet five years ago, but battery life was not as introduced, and the OS did not run traditional applications. Microsoft must also learn lessons from this disaster.

See also: Windows RT was officially killed

New laptops will look like normal ones you see, something thinner, lighter, longer battery life and still compatible with good applications.

Asus's NovaGo 2 in 1 has a 13.3-inch HD screen, up to 8GB of RAM and a maximum storage of 256GB. There is also a touch pen, 2 USB 3.1 ports, an HDMI port and a microSD card reader. NovaGo will cost between $ 599 for 4GB of RAM and 64GB of memory. 8GB of RAM and 256GB of memory will be $ 799. HP's Envy x2 is smaller with a 12.3-inch screen, up to 8GB of RAM and 256GB of memory, and also supports a stylus. Both have LTE connectivity.

Asus's NovaGo 2 in 1 laptop

These devices will lay the foundation for the future. We may see tablets and more hybrid devices. If it really works as Microsoft and Qualcomm say, this will be a year worthwhile for Windows laptops. It is rumored that Microsoft is also creating a device like notepad special version running ARM chipset.

See also: Apple considers putting Qualcomm chips on iPhones and iPads next year

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