DisplayPort 2.0 officially launched, supporting dual 8K display at 120Hz

Yesterday, June 27, the Video Electronics Standards Association (VESA) officially announced DisplayPort 2.0 connectivity standard.

Many of us have never had a chance to own a 4K screen model (probably because of financial or user needs). However, technology still grows every hour and every minute and does not wait for anyone.

Yesterday, June 27, Video Electronics Standards Association (VESA) officially announced DisplayPort 2.0 connectivity standard, as a perfect step for the arrival of the world's first 16K monitors. only in the next few years.

1. The USB connector explains why users have to plug the USB device into the computer 3 times

DisplayPort 2.0 will use USB-C port

In fact, the idea of ??supporting the 16K screen seems to be quite 'big' and doesn't seem to be highly practical because as said, the 4K screen is just as popular. At the present time, although it has been released for a long time, so that 16k can be used universally, it will be far away. However, development and innovation are always commendable and bring undeniable values. So is DisplayPort 2.0.

Besides support for 16K monitors, this connection standard will also help data transfer bandwidth increase from 32.4Gbps to 80Gbps - extremely quality improvement - enabling support for a variety of monitor configurations

new images are more effective, such as:

Solutions for setting up a single screen

1. A 16K (15360 × 8460) screen @ 60Hz and 30bpp 4: 4: 4 HDR (with DSC)
2. A 10K screen (10240 × 4320) @ 60Hz and 24bpp 4: 4: 4 (uncompressed)

The solution for setting up double monitors

1. Two 8K (7680 × 4320) monitors @ 120Hz and 30bpp 4: 4: 4 HDR (with DSC)
2. Two 4K monitors (3840 × 2160) @ 144Hz and 24bpp 4: 4: 4 (uncompressed)

The solution set up three screens

1. Three 10K screens (10240 × 4320) @ 60Hz and 30bpp 4: 4: 4 HDR (with DSC)
2. Three 4K screens (3840 × 2160) @ 90Hz and 30bpp 4: 4: 4 HDR (uncompressed)

Thus, in addition to the ability to support extremely impressive resolution, you can also play games with super high refresh rates on 4K resolution via DisplayPort 2.0. Besides, this impressive support is also particularly useful for virtual reality (VR) tasks in not only the present time but also in the coming years, when VR is applied and used spectrum. More variable in many areas of life.

1. The USB4 standard was officially launched, twice as fast as USB 3.2

Connection Standard DisplayPort 2.0 will use USB-C ports and operate on Thunderbolt 3 technology. Although Thunderbolt is usually limited to 40Gbps, it supports two-way connectivity. Meanwhile DisplayPort is a one-way connection, so it is possible to use the full 80Gbps bandwidth of this protocol.

Similar to Thunderbolt 3, you'll need to use special cables to support full transmission bandwidth, but the point is that DisplayPort 2.0 will require fewer types of connectors. This means that you only need to use a single cable for all tasks including data transfer, video and dynamic power supply. Get ready now, because USB-C will be much more popular.

1. Why is the PCI Express port on the motherboard different in size? What does x16, x8, x4 and x1 mean?

DisplayPort 2.0 works on Thunderbolt 3 technology

Of course it will take some time for this technology to be officially put into use on the latest electronic devices. As expected, the world's first DisplayPort 2.0 technology devices will appear as early as the end of 2020.