

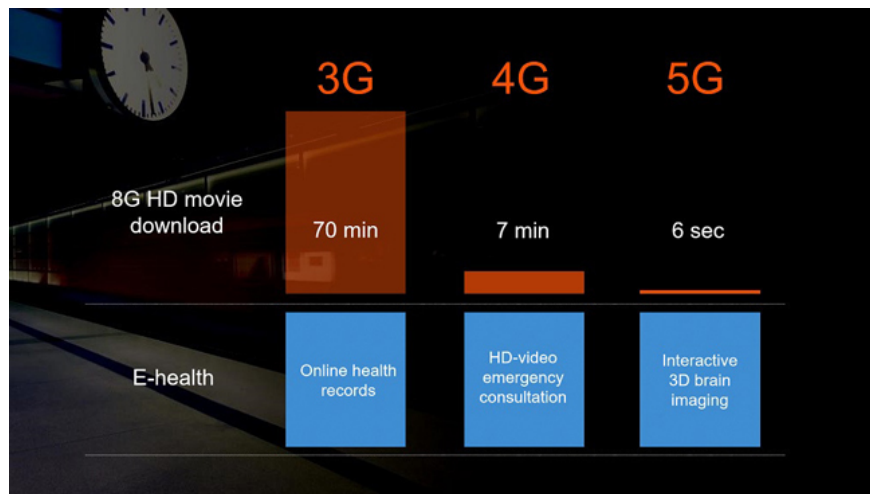
5G Smartphone will be like?

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What is the 5G network?

One of the easiest way to understand, you can imagine, 2G is a bicycle, 3G is a car, 4G is a plane, 5G is a rocket with a remarkable speed.



In theory, 5G can give Internet access speeds up to 20 Gbps, and 1Gbps speed for each common user to access. At this rate, it takes only 6 seconds for the user to load an 8GB movie.

5G Smartphone handles photos and videos instantly

Today's smartphones have a video-processing mechanism similar to how computers work, which means processing right on the device thanks to CPU and GPU graphics chips.

But, with the 5G network everything else, CPUs can be put on the cloud by manufacturers called Cloud GPUs and then, how to handle images - video will be different. When users take photos or record videos, it is uploaded to the cloud GPU in a flash and images will be processed here and sent back to the phone. Currently, this cannot be done at a 4.5G network with upload speeds of 2 Mbps and download at 10 Mbps.



According to Huawei, photos will be processed very fast, almost instantaneously while with a H.265 full HD video of 1 minute long, the process only takes about 2.3 seconds.

This means that smartphones will not need to carry chips because the 5G network will bring images and videos to the cloud when it needs processing.

Game industry will change

Giving the GPU to the cloud will help the 5G smartphone not rely too much on the GPU on the device (this GPU helps the smartphone to run independently when there is no 5G connection). This helps mobile game developers not need to create different game versions for compatibility with iOS or Android operating systems, for different types of processors, for different screen resolutions. .

Then, the information from the device (smartphone) will be sent to the edge server -> the server will render, compress the information -> transfer to the publisher / developer game server -> the game's information returned back edge server -> processor server -> move to smartphone in real time.



This means that every 5G connected smartphone can become a gaming phone. In the future, smartphones in the future will be cheaper, less expensive, and even allow users to choose "configuration" by selecting a regular or strong GPU server.

Design has many challenges

Compared to existing networks, 5G network uses higher frequency spectrum so the ability to penetrate obstacles of 5G wave is not as good as 4G or 3G. Therefore, manufacturers must find a way to design a smartphone that uses 5G will not be blocked by the user's hands, affecting the speed.

The way to solve this problem is to use more antenna but when the hard, luxurious metal back is no longer available, replace it with plastic or other material.

In the next 1 to 2 years, 5G smartphones may appear. The first country to deploy the 5G infrastructure is Korea and Huawei will be the supplier of equipment to all three major operators in kimchi.

To complete an ecosystem using 5G connection requires 5 following elements:

1. Chipset supports 5G.
2. The smartphone is ready for 5G, meeting all conditions: antenna is good enough, the battery is strong enough and supports the cloud well.
3. The infrastructure.
4. Cloud computing.

5G Smartphone will only be released when the infrastructure is built. Compared to the previous 3G or 4G, 5G coverage is expected to take a lot more time, and maybe only developed countries and big cities will pilot.

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2. This is why you should be happy for having 5G
3. Huawei initiated testing of 5G technology in Italy, reaching speeds of 3Gbps

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