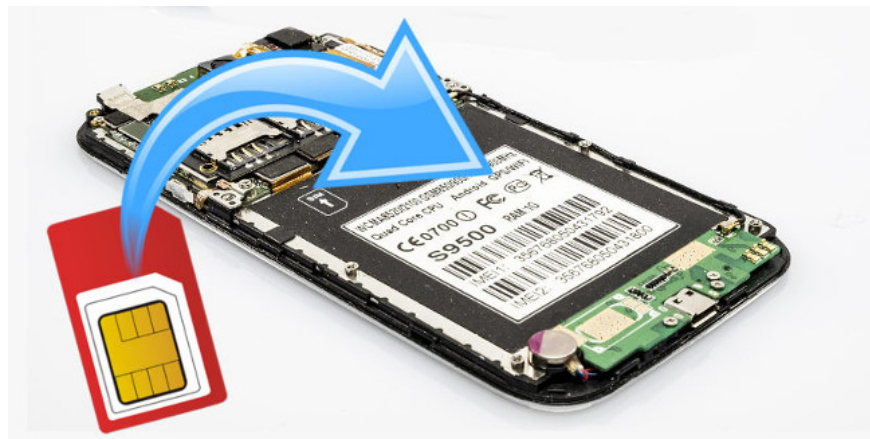


Embed Sim (eSIM) will be the new trend in the future?

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If you've ever changed your network with your mobile phone, you'll know about the SIM card. **SIM** is from the representative for **Subscriber Identity Module** (translated: subscriber identification), with **SIM**, the new technology device can connect to the mobile network. From there, users can contact or access the Internet and vice versa, the operator will know if the user is using their service or not.



SIM card is the place to store information used to authenticate users of the network. In the past 27 years, we have been accustomed to seeing the SIM in the form of a small card, containing the chip to fit into the phone. But did you know that in 1991 the SIM card was as big as a credit card now? Over time, it decreases in size and is as compact as it is today.

Currently, most of us are using plastic SIM cards with easy-to-disassemble chips in different size standards such as regular mini-SIM, micro or nano.

When you want to change the network, simply remove the old SIM card in your phone and put it in a SIM card, if your phone is unlocked! However, this is not the only way users can change networks, because **Embedded SIM** (eSIMs) tags are starting to be used in the market.

What is Embedded SIM?



Embedded SIM is like its name - is an ' *embedded* ' SIM card inside the device, there is no separate SIM card on the phone and you cannot remove it from the device. It is placed inside the motherboard and cannot be removed. However, like the SIM card can be exchanged, you can change the SIM card to another network if it is not locked.

eSIM / Embedded SIM or more importantly Universal Integrated Circuit Card (eUICC) with a length and width of less than 5mm is soldered to the circuit board of the device when manufactured but still functions as a regular SIM card. It has **M2M** (Machine to Machine) and **Remote Provisioning functions** .

Remote Provisioning within the eSIM standard provides a better experience when enabling and managing phones. During the installation process, users can select the network and plan they want.

How Apple SIM works with your iPad.

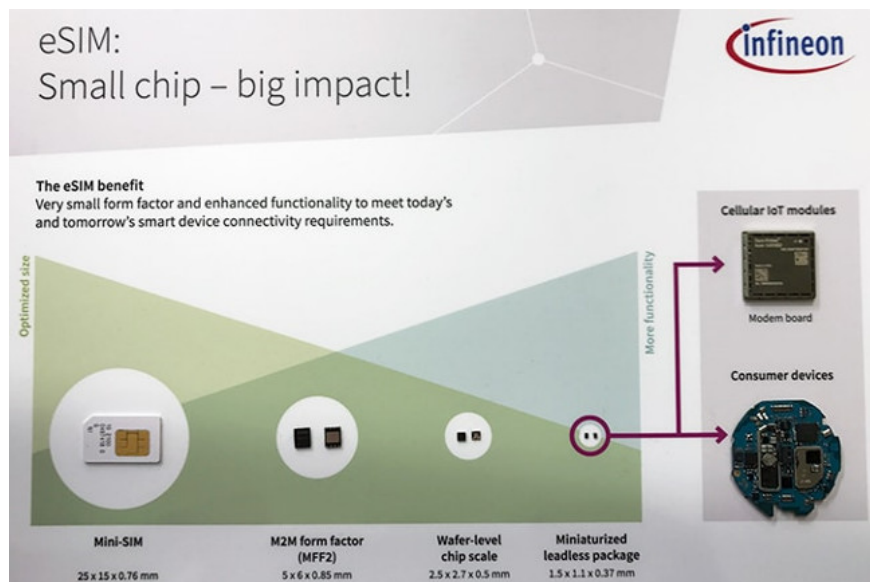
Apple SIM comes pre-installed in some iPad with Wi-Fi + Cellular models in some countries, and is embedded in other Wi-Fi + Cellular models. It's also available for purchase at most Apple Store locations.³

Apple SIM	Pre-Installed	Embedded
12.9-inch iPad Pro (2nd generation)		✓
12.9-inch iPad Pro (1st generation)	✓	
10.5-inch iPad Pro		✓
9.7-inch iPad Pro		✓
iPad (5th generation)	✓	
iPad Air 2	✓	
iPad mini 4	✓	
iPad mini 3	✓	

At this point, eSIMs do not become the standard for all phone carriers. However, everyone's interest is gradually increasing. **Apple**, **Samsung**, **Google** and **Huawei** all have eSIMs approved in one way or another, so soon we will witness eSIM becoming the standard in popular market devices. Whether or not, eSIMs will completely replace removable SIM.

Unlike a physical SIM card, you don't need to shop or use mail order to own a new SIM card! Using something called "remote SIM provisioning", the network provider can transmit detailed information to your eSIM, allowing it to connect to their network. Some devices can only store one profile, so you need to delete and download the network configuration to make changes. Other devices, such as devices using **Apple SIM** services, allow you to choose between mobile networks from device settings.

Advantages of eSIM



The biggest advantage of eSIM is convenience . If you want to use multiple plans on your phone, you can exchange and change them the way you need. This makes it perfect for those who don't want to be embarrassed with physical SIM cards whenever they want to change.

In addition, the benefits that eSIM offers are obvious:

1. Simple connection, just use Wi-Fi.
2. No need for easy SIM cards.
3. No worries about standard Nano SIM or microphones every time you switch devices.
4. Available for all mobile devices and networks, easily switch networks when needed.
5. Convenient in local network when traveling abroad.
6. Compact, space-saving inside the machine to add other features or optimize thinness, increase aesthetics.

Disadvantages of eSIM



eSIM not only helps mobile devices to operate but also opens up a whole new list of devices with fewer disadvantages. However, this is not a good workaround for physical SIM lovers. Switching from a user-replaceable SIM card to a fixed device inside the device causes some users to worry about their freedom, part of the phone cannot be customized. Changing SIM is now a process in which companies have full control, not something that users can do on their own.

Besides, there are many people who share stories when they go to other countries to travel. When using a physical SIM card they can remove and buy a new SIM card from any local store and use it during the stay. So what about eSIMs card? Can people easily get a 'SIM card' like now?

Theoretically, when traveling to somewhere, your **mobile device will know the geographic location has changed and provides a phone number and plan of the local network operator** . In addition, another benefit discussed is that eSIM ensures future devices have cheaper production costs.



eSIM is the future but it cannot happen overnight. One thing is for sure, it won't take another 27 years to see eSIM universal and physical SIM cards become a part of history. Advances in SIM card technology have eliminated the need for a replaceable SIM card. Currently, network service providers can transmit detailed information to eSIM, allowing you to exchange network providers instantly.

It may take time to adapt but technological progress will always win .With many outstanding advantages, the prospect of eSIM replacing SIM is easy to see.Mobile technology giants like Apple or Samsung have all expressed their support for eSIM.

Moreover, the development of eSIM not only affects users of mobile devices but also promotes the operation of 5G network and creates a new development for many civil equipment systems, thereby improving the quality The amount of life of people in the world.

ESIMs are the way to develop in the future? Or is it a strong motivation to overcome the control of users on SIM cards? Let us know your opinion in the comment section below!

Refer to some more articles:

1. Learn about eSIM new SIM technology for the future
2. Does Google Pixel 2 need no ordinary physical SIM?
3. How to remove SIM on iPhone, iPad

Having fun!

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