

New generation Wifi can reach speeds up to 10 Gbps

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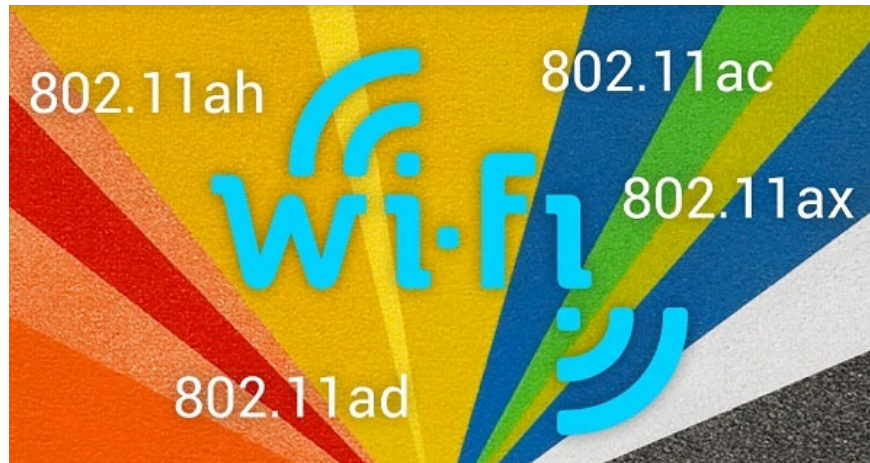
The wireless network in the world was first introduced in the 1990s. Next, the 802.11a protocol was also recognized in 1999. This protocol allows transfer speeds of up to 54 Mbps, using use 5 GHz radio waves. Since then, standards for WiFi have been increasingly improved. So far, the latest WiFi standard is 802.11ac, which allows sending data at a rate of about 1.3 Gbps on the 5GHz band and 450 Mbps on the 2.4 GHz band.

So what will the next WiFi standard be? There have been several different development directions to answer this question. In particular, two key directions are to develop the next version of 802.11 ac and release new network standards, 802.11ax.

Until mid-2013, the new *WiFi Alliance* Association officially approved the standard for 802.11ac. However, there were earlier products that were produced based on the "draft" version of 802.11ac since 2012. Cisco said that we are currently in the "Wave 1" phase of 802.11ac WiFi. As expected, the router in the "Wave 2" stage will be released in 2015. These products will use 5 GHz frequency band (*instead of 2.4 GHz as 802.11b / g / standard*). *n now*) and integrated MU-MIMO (*Multi User-Multiple Input / Multiple Output*) technology. In addition, it also supports multi-channel transmission combination. As a result, 802.11ac devices can transfer

maximum data rates to more than 7 Gbps.

After the " Wave 2 " phase of 802.11ac standard, it will be the introduction of a new standard, 802.11ax. The primary goal of the new standard will be to quadruple the speed of network transfer to personal devices, not just to increase the overall network speed as in the previous standards. Huawei (China) has recently successfully tested 802.11ax data transmission at 10.53 Gbps on 5GHz band.



However, do not rush to celebrate, at least until now. Because the WiFi Alliance Association is expected to officially approve this new network by 2019. In addition, we may also see products using 802.11ax as soon as 2016. Of course, these devices will still use standard " draft " technology, just like 802.11n. " draft "and 802.11ac" draft ".

Good news for users of smartphones and tablets, they won't have to wait that long to own a new network standard device. Most of today's top products from big guys like Samsung, HTC, Sony and LG have supported 802.11 a / b / g / n / ac standards on both bands, 2.4 GHz and 5 GHz.

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