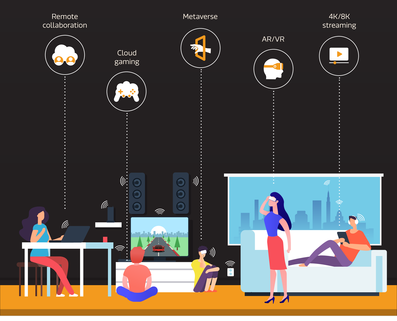
MEDIATEK

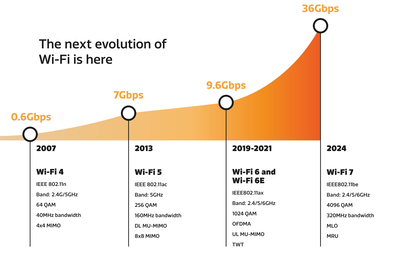
How we're future-proofing connectivity with technology designed for Wi-Fi 7

Wi-Fi must evolve to keep up with ever-growing connectivity demands

The goal: to provide super high-bandwidth, lower latency and higher reliability to make the user experience even better, especially with the growth of heavily trafficked network environments and real-time applications.



The next evolution of Wi-Fi is here



2007
Wi-Fi 4
IEEE 802.11n
Band: 2.4G/5GHz
64 QAM
40MHz bandwidth
4x4 MIMO

2013
Wi-Fi 5
IEEE 802.11ac
Band: 5GHz
256 QAM
160MHz bandwidth
DL MU-MIMO
8x8 MIMO

2019-2021
Wi-Fi 6 and Wi-Fi 6E
IEEE802.11ax
Band: 2.4/5/6GHz
1024 QAM
OFDMA
UL MU-MIMO
TWT

2024
Wi-Fi 7
IEEE802.11be
Band: 2.4/5/6GHz
4096 QAM
320MHz bandwidth
MLO
MRU

Creating significant advantages over Wi-Fi 6

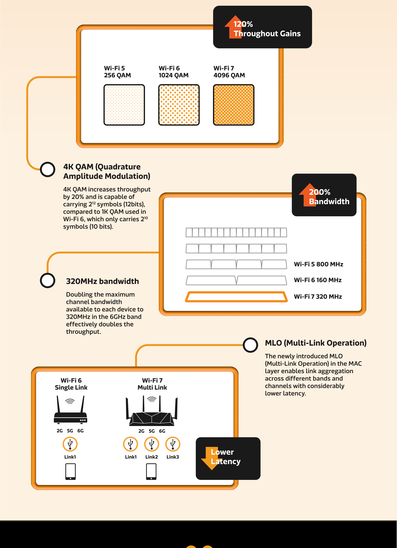
Faster
Close to 4X the wireless datalink performance, delivering over 36Gbps

More Reliable
New Multiple Resource Unit (MRU) lowers multiple user latency by 25%

Always-on Connected
New Multi-Link Operation (MLO) improves single user latency by 80% and throughput gains of up to 300%

We're building new technology to support the speed of the future

Core improvements in Wi-Fi 7 enhance the wireless experience by handling wireless connections more efficiently. Working closely with the Wi-Fi Alliance, we're on the cutting edge of developing these technologies, using our wide-reaching connectivity products.



MediaTek's first Wi-Fi 7 silicon has already demonstrated over 10Gbps data rate using just the 6GHz band.

MediaTek Filogic

Unlock Wi-Fi 7 with MediaTek Filogic Wi-Fi 7 end-to-end solutions

MediaTek's innovations and product platforms are ready to support next-generation Wi-Fi using our just-announced Filogic 880 and Filogic 380 high performance, power-efficient and reliable Wi-Fi solutions.

Prepare for the future with MediaTek Filogic

Whether you are ready to deploy Wi-Fi 6/6E solutions today or are planning for Wi-Fi 7, you can count on Filogic to keep you connected.

Discover MediaTek Filogic

About MediaTek

MediaTek is the world's largest supplier of Wi-Fi solutions and the fourth largest global fabless semiconductor company, powering more than two billion devices a year. We build chips that are less about connecting people to their devices and more about connecting your devices to what matters.

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