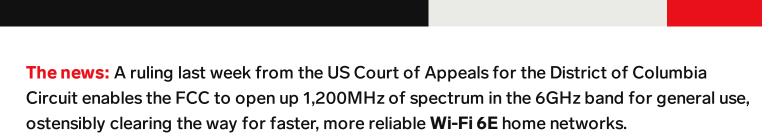
## FCC ruling paves the way for the biggest Wi-Fi upgrade in 20 years

**Article** 



More on this: The <u>ruling</u>, which backs up a 2020 decision expanding the 6GHz Wi-Fi band, could make existing Wi-Fi 6E routers more efficient by enabling multiple streams to broadcast





simultaneously without interference, per The Verge.

- Top speeds for Wi-Fi 6 are 30% faster than the fastest speeds for Wi-Fi 5. The standard's performance excels in busy networks with lots of connected devices.
- Current Wi-Fi devices operate on two spectrum bands, 2.4 GHz and 5 GHz. Wi-Fi 6E adds a third spectrum band, 6 GHz, quadrupling the overall airwaves utilized for Wi-Fi.
- Computers and phones with support for Wi-Fi 6E trickled into the market during 2021, but not at a rate or magnitude required for mass adoption. Smart TVs and VR headsets, which could benefit from the boost in bandwidth, haven't adopted it yet.
- Various Wi-Fi 6 routers are on the <u>market</u>; however, only <u>a handful</u> of smartphones and PCs currently support the standard out of the box.

The bigger picture: The continued reality of <u>remote work</u>, compounded by the recent Delta and Omicron variant <u>surges</u>, will make robust and resilient Wi-Fi connections more important than 5G wireless adoption, at least for the short term. The FCC's unlocking of Wi-Fi 6 bandwidth could help promote greater standardization.

- Wider Wi-Fi 6 adoption will require investment in updated routers as well as smartphones, PCs, and smart home devices that can work with the <u>standard</u>. Wi-Fi 7, which could offer <u>2.4</u> <u>times the speed</u> of Wi-Fi 6, is also around the corner, further complicating plans for near-term adoption.
- Faster Wi-Fi will not speed up current ISP speeds and might compound an already overburdened network infrastructure.

