

Standard	Wi-Fi Name	Description	Range	Bandwidth
802.11a	Wi-Fi 2	Operates in the 5 GHz band; introduced in 1999.	~35 meters indoors, ~120 meters outdoors	Up to 54 Mbps
802.11b	Wi-Fi 1	Operates in the 2.4 GHz band; introduced in 1999.	~35 meters indoors, ~140 meters outdoors	Up to 11 Mbps
802.11g	Wi-Fi 3	Operates in the 2.4 GHz band; introduced in 2003.	~38 meters indoors, ~140 meters outdoors	Up to 54 Mbps
802.11n	Wi-Fi 4	Operates in 2.4 GHz and 5 GHz bands; introduced in 2009.	~70 meters indoors, ~250 meters outdoors	Up to 600 Mbps
802.11ac	Wi-Fi 5	Operates in the 5 GHz band; introduced in 2014.	~35 meters indoors, ~100 meters outdoors	Up to 6.9 Gbps
802.11ax	Wi-Fi 6	Operates in 2.4 GHz and 5 GHz bands; introduced in 2019.	~50 meters indoors, ~100 meters outdoors	Up to 9.6 Gbps
802.11ax	Wi-Fi 6E	Extension of Wi-Fi 6 operating in the 6 GHz band; introduced in 2021.	~30 meters indoors, ~60 meters outdoors	Up to 9.6 Gbps
802.11be	Wi-Fi 7	Operates in 2.4 GHz, 5 GHz, and 6 GHz bands; expected to launch in 2024-2025.	Similar to Wi-Fi 6E ranges	Up to 46 Gbps