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| **Features** | **Wi-Fi 6** | **Wi-Fi 6E** |
| **Frequency Bands** | Uses 2.4 GHz and 5 GHz. | Uses 2.4 GHz, 5 GHz, and a new 6 GHz band. |
| **Range** | Good range, especially on 2.4 GHz. | 6 GHz has a little shorter range because higher signals don't travel as far. |
| **Bandwidth** | Decent capacity, but has to share space with older devices. | Much more space for faster and smoother connections. |
| **Interference** | Can get crowded with other Wi-Fi, Bluetooth, and microwaves. | 6 GHz band is clean and less crowded, so fewer problems. |
| **Device Support** | Works with both old and new Wi-Fi devices. | Only works with newer devices that support Wi-Fi 6E. |
| **Performance in Busy Areas** | Better than Wi-Fi 5 thanks to new tech. | Even better, because of more space and fewer devices on 6 GHz. |

5. Compare and contrast Wi-Fi 6 and Wi-Fi 6E in terms of range, bandwidth, and interference.