

A wired Ethernet connection is the fastest, most reliable connection to the Internet in your home. It suffers none of the radio frequency interference that can plague a WiFi network, and it's not subject to range limitations. There are three situations where wired Ethernet ports are highly recommended:

1) Smart TVs require fast Internet connections. If you are streaming HD content over your WiFi network, you probably experience occasional buffering, which causes the picture to freeze or pixilate while the WiFi network struggles to keep up with the amount of data streaming over the network. As we transition to 4K (Ultra HD TV) this problem will get worse.

2) A single Wireless Access Point (WAP), such as the one built into the wireless router used by most people, may not cover your entire home. If you need additional coverage, you should plan for wired connections to additional WAP locations rather than using repeaters, which are significantly inferior to hard-wired WAPs. The number of recommended additional locations will depend on the size and layout of your house.

3) If you use your home computer for high data downloads, you should provide a wired connection for the computer. That way you are using the best Ethernet connection where the data rate is high, and removing that burden from the WiFi network.

Summary:

If you are building a new home, you should provide a wired Ethernet jack at every TV, home office, and WAP location. Your high-demand devices will work better, and your WiFi will work better, creating the best of both worlds.