

- Basic DSL Internet (1.5Mbps): sufficient for web browsing and e-mail, as well as streaming low resolution videos such as standard 240p/360p YouTube
- Basic Cable or Midrange DSL Internet (3Mbps): sufficient for most YouTube videos and Internet gaming
- Premium DSL Internet (7Mbps): recommended for smooth streaming of standard-definition Netflix video
- Midrange Cable Internet (12Mbps): excellent throughput for most typical uses
- High-end Cable Internet (25-75Mbps): required for streaming Netflix "DVD Quality" 24Mbps (3MB/s) video
- Ultra-high-end Fiber Optic Internet (100-300Mbps): required for streaming Netflix "Super HD" 56Mbps (7MB/s) video

As you can see, Internet speeds and video streaming requirements vary greatly. Now, if you'll be transferring a lot of files across your "intranet" (local network), you probably already know what type of throughput you'd need. For the typical Interent user, however, the desire for streaming video will likely determine how fast a network needs to be, and for that purpose, the limits of the Internet service provider are likely the most critical factor. That's because the vast majority of Internet subscribers in the U.S. have Internet connection speeds far below the limits of even 802.11n/2.4GHz. In fact, users of DSL would need nothing more than 802.11g to get the most out of their Internet service. That may be why the faster 5GHz technologies haven't caught on. But if you're paying over \$50/month for your Internet service to get high-end cable (or fiber) service, you better believe that 5GHz wireless is worthy of your investment!

Recommended Wireless Solutions

So, in the end, there is no one answer to which networking technology is best. Obviously, the newest, fastest technologies almost always cost more. We'd say that for the average home user with a DSL connection, an 802.11n network on the 2.4GHz band is sufficient. For users of cable Internet, 802.11n on the 5GHz band is probably preferable, and for users of fiber or other ultra-high-speed services, only 802.11ac will sufficiel For specific recommendations on a whole range of wireless devices by category, check out our <u>Wireless Networking Buyer's Guide</u>!



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