



BANDWIDTH CHART

Type Connection	Speed (kbps) 1,000 bytes (down/up)	Web page 400kb (avg)	AV Slow 128kbps	Video Conferencing 384kbps	Character Per Second Up to Cloud
Dial-up (modem)	56	7.1 sec	2.2 sec to load 1 sec of material		7
IDSL	144	2.8 sec	0.9 sec to load 1 sec of material		18
ADSL* (typical)	3,000/768	0.1 sec	.04 sec Download 0.17 sec Upload	0.13 sec Download 0.5 sec Upload	96
T1 (DS1)	1,544	0.26	0.08 sec	0.25 sec	193
Cable Modem* (best)	6,000/768	0.07 sec	0.02 sec Download 0.17 sec Upload	0.06 sec Download 0.5 sec Upload	96
FiOS* (slowest residential)	15,000/5,000	0.03 sec	0.009 sec Download 0.026 sec Upload	0.026 sec Download 0.077 sec Upload	625

* Speed presented is representative of the type and varies by service provider and subscription package. Always check with your provider to determine your service.

Some speeds can be improved by using data compression technologies.

- All speeds use SI notation: 1 kb = 1,000 bytes
- All speeds are quoted in kbps
- Speeds/time does not reflect overhead for communication protocols

You may want to check your actual Internet connection speed. This will always be slower than your subscribed speed due to factors such as communication protocol and time to travel distance. Conduct the test several times using servers



in different geographical locations, record the results and calculate an average speed. Some Internet test services include:

SpeakEasy <http://www.speakeasy.net/speedtest/>

DNSStuff <http://www.dnsstuff.com/speedtest/>

Version <http://www2.verizon.net/micro/speedtest/java/>

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