Routers

Includes a firewall. Splits internet from one input (cable modem, fiber) to many computers.

Important factors

- What generation of wifi (ac or ax)
- Mesh, or single device? Mesh is more expensive and complicated but better coverage

Wifi 5 vs Wifi 6 (AC vs AX)

Price changes recently mean AX is the way forward.

Wifi 5 (AC)	Wifi 6 (AX)
Widely supported high speed	Range increase? (maybe for 2.4 and 5GHz) Lower power use Gluttonous speeds

What routers to buy?

AC: dont
AX (cheap): https://www.amazon.com/ASUS-AX1800-WiFi-Router-RT-AX55/dp/B08J6CFM39/
AX (better):
https://www.amazon.com/ASUS-AX5700-Gaming-Router-RT-AX86S/dp/B09GP8PCF6/
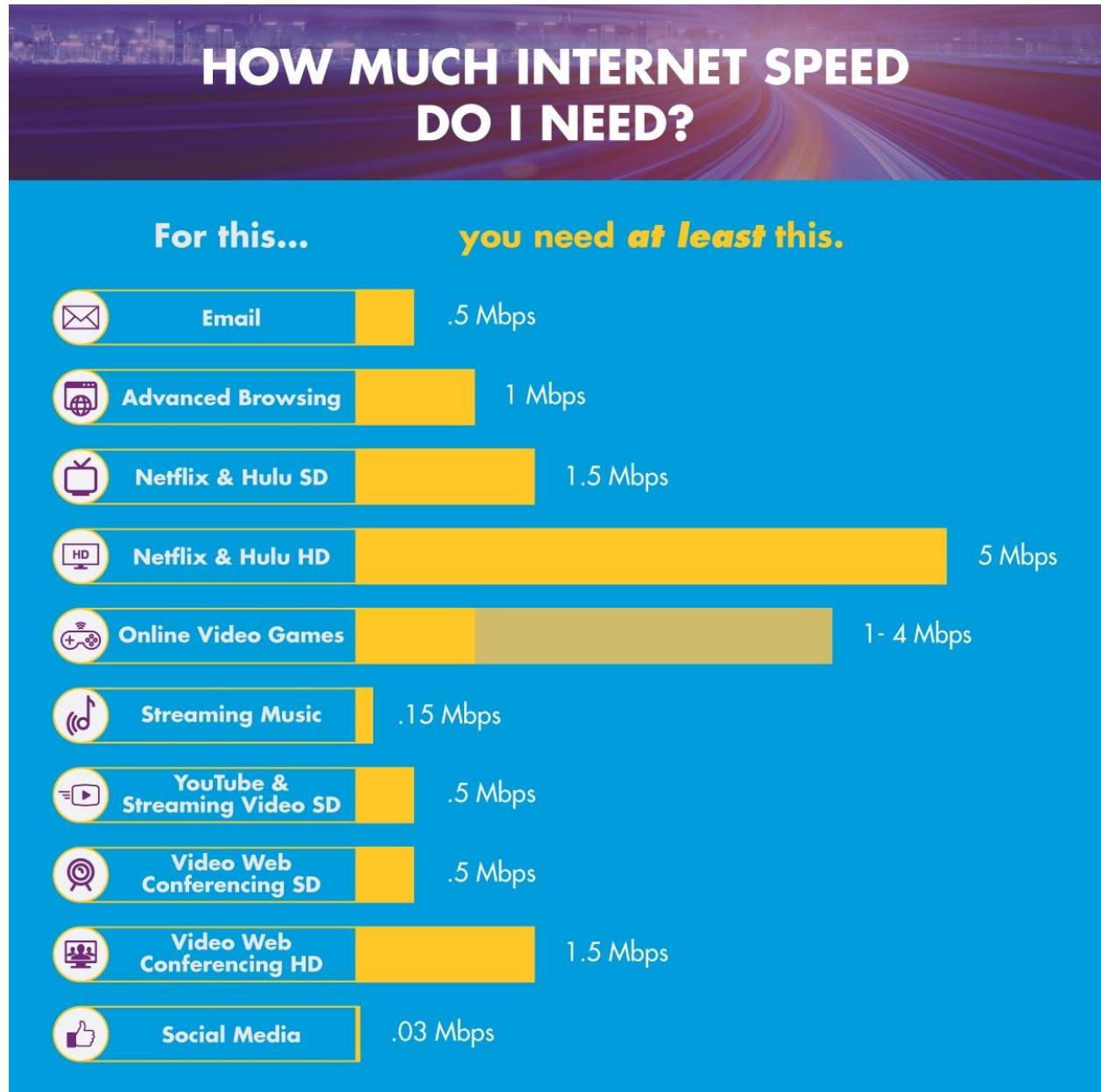Mesh: https://www.amazon.com/Eero-6-Router/dp/B085VM9ZDD/

Cable Modems

Comcast is our primary discussion. It's never 100%, but compatibility is usually high on mainstream items.

Important Factors

- DOCSIS (3.0 will be phased out in a few years, 3.1 is the most recent)
- Speed (Mbps aka Gbps)

Speed - HOW MUCH

HOW MUCH INTERNET SPEED DO I NEED?

For this...	you need at least this.
Email	.5 Mbps
Advanced Browsing	1 Mbps
Netflix & Hulu SD	1.5 Mbps
Netflix & Hulu HD	5 Mbps
Online Video Games	1- 4 Mbps
Streaming Music	.15 Mbps
YouTube & Streaming Video SD	.5 Mbps
Video Web Conferencing SD	.5 Mbps
Video Web Conferencing HD	1.5 Mbps
Social Media	.03 Mbps

Good Cable Modems

Regular speed
High Speed (2.5Gbps)
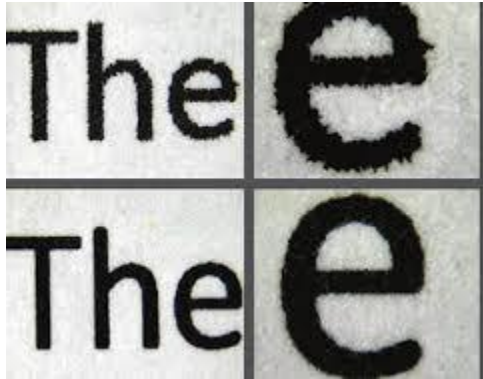https://www.amazon.com/MOTOROLA-MB8611-Ethernet-Approved-Comcast/dp/B08DDFKXKC/
Bad:
https://www.amazon.com/ARRIS-Surfboard-Certified-Cablevision-SB6190/dp/B06ZZGXJKM/

Fiber

You cannot usually use your own ONT (optical network terminal) but you can use your own routers.

Printers

Important Factors

- Laser vs Inkjet
- Color vs Black and White
- How many pages it prints per month reliably

Laser vs Inkjet

Inkjet	Laser
Cheap entry cost Very high ongoing cost Low to medium complexity Shortest lifespan Uses Ink	High relative entry level cost Low ongoing cost High complexity Long lifespan Toner

Laser

A great choice, and critical for high-volume printing.

BW:
https://www.amazon.com/Brother-Monochrome-Multifunction-MFCL2710DW-Replenishment/dp/B0763ZCH7K/
Color:
https://www.amazon.com/Brother-HL-L3210-Wireless-Digital-Business/dp/B09B9WQQVK/

Inkjet

stay cheap
https://www.amazon.com/HP-DeskJet-2755e-Wireless-Printer/dp/B08XYP6BJV/

Mice

The only questions are budget and whether it's wireless or not.
Logitech laptop mouse:
https://www.amazon.com/Logitech-Wireless-Computer-Unifying-Receiver/dp/B087Z5WDJ2/
Ergo:
https://www.amazon.com/Ergonomic-Mouse-Vertical-Wireless-Rechargeable/dp/B07BFCVJZC/
Desktop wired (generic):
https://www.amazon.com/AmazonBasics-3-Button-Wired-Computer-1-Pack/dp/B005EJH6RW/
Desktop wired (thumb clicks):
https://www.amazon.com/Gaming-Programmable-Button-Ergonomic-Computer/dp/B07DPJQ6ZQ/

Keyboards

LINEAR	TACTILE	CLICKY
No Bump No Click	Tactile Bump No Click	Tactile Bump Audible Click

100%

96%

TKL(87%)
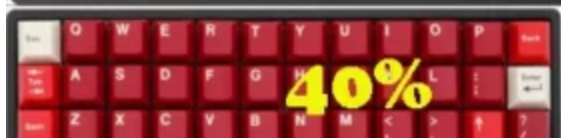
75%

65%

60%

40%

Numpad

Important options

- Wired vs Wireless vs Bluetooth
- Mechanical vs not
- Size (Full, no numpad, 60 percent)

Cheap:
https://www.amazon.com/AmazonBasics-Matte-Keyboard-QWERTY-Layout/dp/B07WJ5D3H4/
Wired:
https://www.amazon.com/Logitech-Mechanical-Illuminated-Keyboard-Adjustable/dp/B089YFHYYS/
Wireless:
https://www.amazon.com/Arteck-Wireless-Keyboard-Numeric-Computer/dp/B09D7Z8MCY/

Webcam

There are 3 main webcam types people buy
cheap: well, same as 720p
720p:
https://www.amazon.com/Logitech-Desktop-Widescreen-Calling-Recording/dp/B004FHO5Y6/
1080p: https://www.amazon.com/Logitech-C920x-Pro-HD-Webcam/dp/B085TFF7M1/