Introduction to Networking

CHEAT SHEETS

Physical Connectivity

RJ45

RJ11 (Phone lines)

Rear ports of a router

Network Devices

Routers – gateway to the Internet
Switches – create local networks
Access Points – a bridge between wired and wireless networks
Modems – used for phone (PSTN) lines
Hubs – not in use, not as good as switches
Firewalls – designed for your security.
A SOHO (Small Office Home Office) device combines a lot of services: it can be a router with a built-in switch and access point ("wireless router")

A Firewall

A wireless Router

CMD commands

cmd – access the command line interface box in Windows
ipconfig – check your IP address
ping – verify basic connectivity
tracert – check all hops to a destination

Websites and applications that you need to know

www.speedtest.net – check how fast your Internet connection is
www.ping.eu – a set of tools (ping, speedtest, traceroute…)
www.acrylicwifi.com – a powerfull WIFI scanner
www.canyouseeme.org – check your public IP address and open ports