

Common Computing Devices

- Mobile Phones
- Tablets
- Laptops
- Workstations (Desktop computers)
- Servers
- Gaming consoles

You have to read the manuals

Physical Privacy & Security

- Biometrics
- Near-field scanner features (NFC)
 - ↳ 4 cm

Hardware / Device Replacement

- Battery
- Keyboard / keys
- Random-access memory (RAM)
- Hard Disk drive (HDD) / solidstate drive (SSD) migration
- HDD / SSD replacement
- Wireless cards

Connection Methods

- USB (Universal Serial Bus)
 - ↳ C / microUSB / miniUSB
- Lightning
- Serial interfaces (9 pins) ^{become old} (now covered by routers)
- NFC (Near Field Communication)
- Bluetooth
- Hotspot

Accessories

- Touchpens
- Trackpad
- Headsets
- Speakers
- Webcam

Connection Methods

- Port Replicator
 - ↳ reproduces the functions of the ports on
- Docking Station

Mobile Device Synchronization

Account Setup

- ↳ Microsoft 365
- ↳ Google Workspace
- ↳ iClouds

Data to Sync

- ↳ Mail
- ↳ Photos
- ↳ Calendar
- ↳ Contacts
- ↳ Recognizing data caps

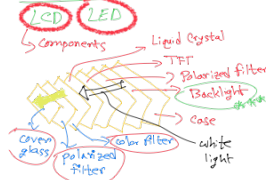
Display Components

- Antenna is generally top of the screen

↳ wifi card

A Digitizer

Mobile Display Types



LCD has 3 different technology

- 1) TN (Twisted nematic)
- 2) IPS (In plane switching)
- 3) VA (Vertical Alignment)

OLED Organic light emitting diode

↳ no backlight

LCD (Liquid Crystal Display)

↳ Don't produce light

↳ Uses a backlight

↳ CCFL (Cold Cathode Fluorescent Lamp)

↳ can use strips of LED lights

Inverter

↳ Converts DC to AC for the backlight

↳ If there is problems with flickering or dimness it might be the inverter.

Bluetooth connection & MDM

- enable bluetooth
- enable pairing
- find a device for pairing
- enter the appropriate Pin code
- Test connectivity
- Location Services
 - GPS (Global Positioning System)
 - Cellular location services

5G

100x faster than 4G

Low latency links

MDM (Mobile device management) / MAM (Mobile application management)

- ↳ corporate email configuration
- ↳ two factor authentication
- ↳ corporate application

Cellar Standards

1G (analog standard)

2G

- ↳ GSM (Global System for Mobile Communications)
- ↳ CDMA (Code division multiple access) Uses a
- ↳ GSM & CDMA were not compatible with each other

3G

4G

- ↳ LTE standard
- ↳ no need for GSM or CDMA one standard

Uses a PRL (Preferred Roaming List)