

# A1.1

Features of digital devices that form part or all of IT systems.

## Personal Computers

- Desktop and laptop computers.
- Used for general tasks.
- Communication, entertainment etc.
- Connect to networks and peripherals.





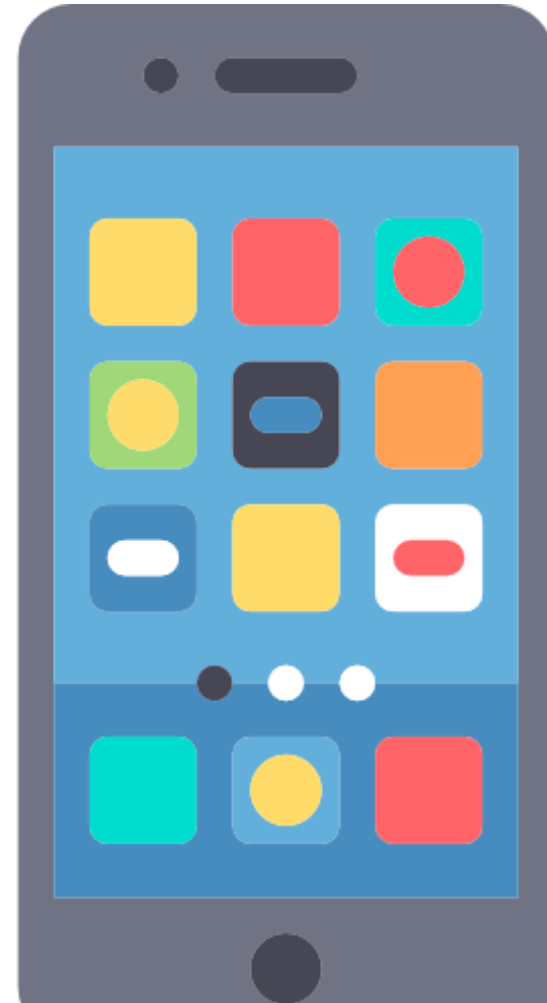
# Multifunctional Devices/MFD

- Combine printing, scanning, copying.
- Support document management.
- Often network-connected.
- My example: Smart phone.

# Mobile Devices

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- Smartphones, tablets.
- Portable and wireless.
- Access apps and web services.





# Servers

- File servers. Store files and are connected over a network. I use OpenMediaVault for my personal file server.
- Application servers. Run one or more applications, online games run on application servers (GTA 5, Rainbow 6).
- Web servers. Websites like [www.RonsTechHub.com](http://www.RonsTechHub.com).

# Entertainment Systems



- Video game consoles. Xbox Series S and X. PlayStation 5. Nintendo Switch 2.
- Streaming devices. Disney Plus, Amazon Prime Video. Netflix.
- Media players. Fire TV STicks, Google Chromes, Androdi Boxes, Apple TV Boxes.

# Digital Cameras

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- Capture still images.
- Record video.
- Can connect to computers or cloud.
- Most popular and compressed: JPG or JPEG.
- Raw files are DNG, NEF, CR2, ARW.



# Navigation Systems



- GPS – Global Positioning System devices.
- Help with directions.
- Often integrated into vehicles.
- Uses satellites in orbit to work out location.

# Communication Devices & Systems

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- Phones and VoIP (Voice over IP)
- Email systems.
- Messaging apps.



# Embedded Systems

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- Built into machines.
- Use sensors.
- Part of IoT devices.
- Raspberry Pi Pico and Arduino devices are popular off the shelf Microcontrollers.
- IoT uses Embedded Systems connected to a network.

