

# CABLE TYPES

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# CABLE TYPES

- computers measures data transfer and storage using bits and bytes respectively
- bits – b , bytes – B
- data transfer rate bps
  - if it takes 2 seconds to send 50b worth of data, the transfer rate is 25bps. So it is just the division of the amount of data by the time taken to transfer
- K(capital) – kilo
- there are 8 bits per byte
- know the different domains and what they stand for
- make notes of key facts not present in the study guide, and then note examples, images, illustrations to better understand when revising the study guides

# EXTERIOR OF PC



fig 1. tower style computer



fig 2. gaming style computer

- Expansion cards (also called **add-on cards** or **expansion boards**) are hardware components that you can install into a desktop computer's **expansion slots** on the **motherboard** to add or enhance functionality, They allow you to **customize**, **upgrade**, or **extend** a computer's capabilities beyond what the motherboard offers.
- Unknown connectors:
  - SPDIF Connector
  - Expansion slots



fig 3: All in one computers

- mac mini is a really small tower
- revise sections you might need as reference materials when the need arises(watch the videos, while using the study guides and your note for the exact session you need to reference)

# USB CONNECTOR TYPES

Ultimate connector reference: <https://www.dropbox.com/scl/fi/qfrgyfnirhj7lyv1t5g76/Ultime-Connectors.jpg?rlkey=2lqz8yn5higqbb25671ih8y5j&e=2&dl=0>

- DB9 and DE9 refer to the same connector, but DB9 is the technically inaccurate and casual name of DE9
  - **Reason for Confusion:**

**"D-sub" connectors** come in different shell sizes, designated by a letter:

    - **DA:** 15 pins (e.g. VGA)
    - **DB:** 25 pins
    - **DC:** 37 pins
    - **DD:** 50 pins
    - **DE:** 9 pins
  - The **"DB"** prefix originally referred to the 25-pin version (DB25). Over time, people started using "DB" for other sizes too, including 9-pin connectors.
  - So, while **"DB9" is common in industry and manuals**, it's a **misnomer**. The correct name for a 9-pin serial connector is **DE9**, because it has an **E-size shell with 9 pins**.
- A type A connector is the most commonly used connector on laptops and desktops

## USB CABLES

- **Daisy chaining** is a term used in both electronics and computing to describe a method of connecting multiple devices in sequence or in a linear series. You can use daisy chaining to connect up to 127 devices to a single port on a device using a usb hub
  - 127 devices is a theoretical limit tho, practically it should be lesser
- Ports are controlled by a **Host Controller**, and each host controller uses the same amount of bandwidth for all devices on a particular port 2:49