



MOTHERBOARDS AND MOTHERBOARD COMPONENTS

**TITGV20
IGOR KLJUIKO**



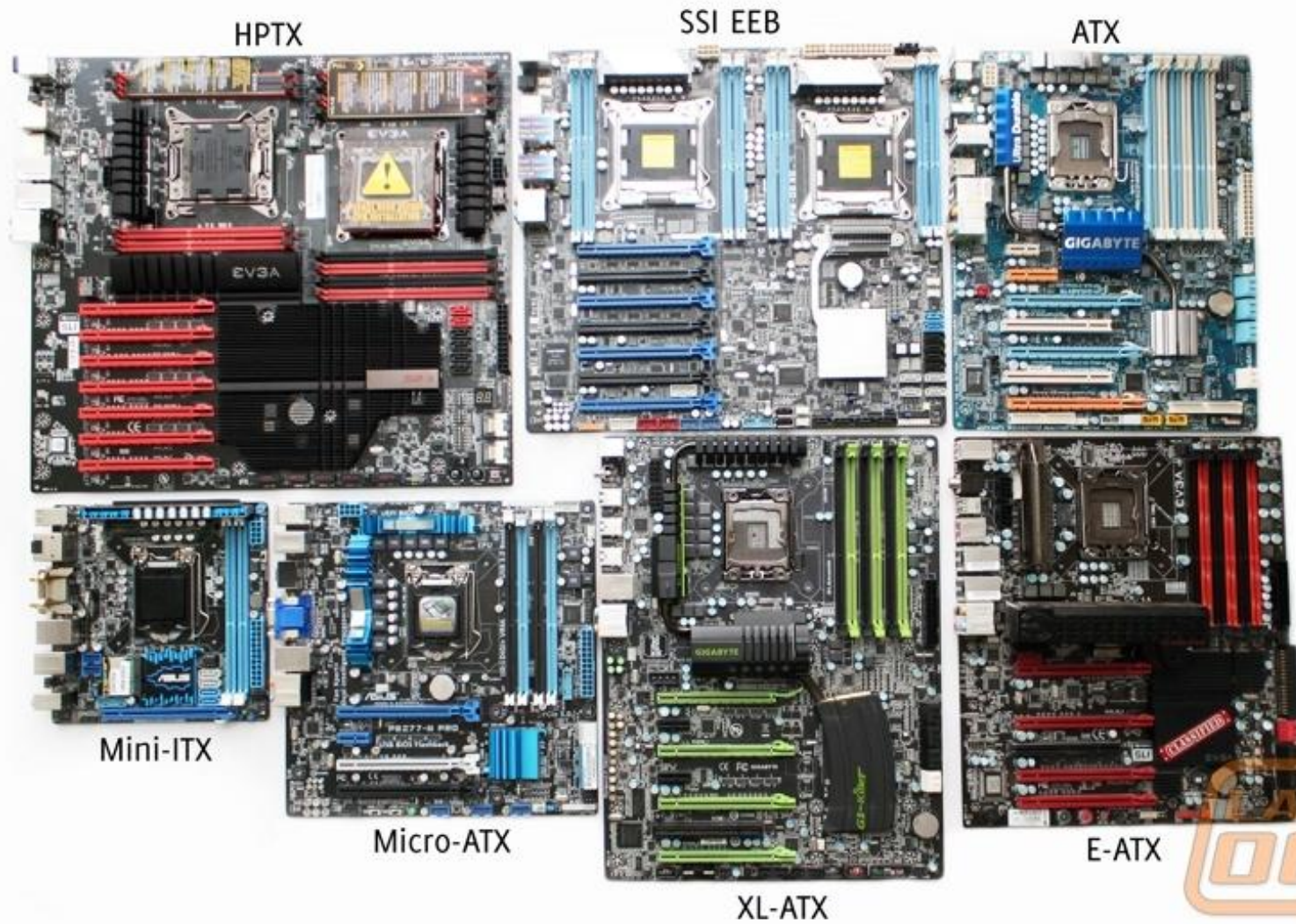
What is Motherboard?

- **Motherboard is the main component of the CPU**
- **Backbone of the Computer**

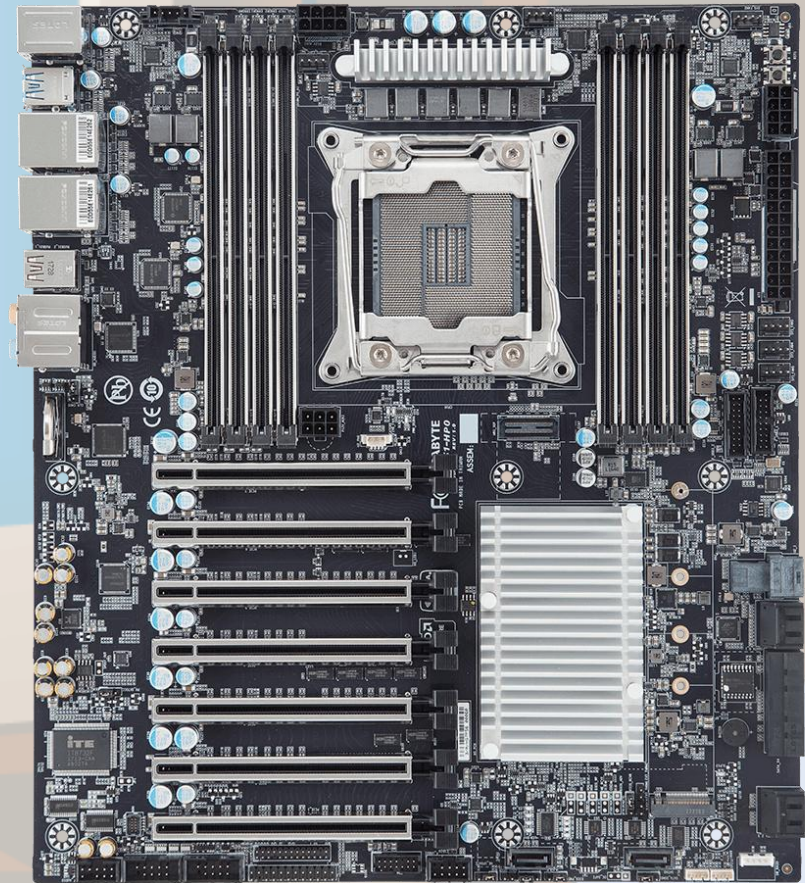
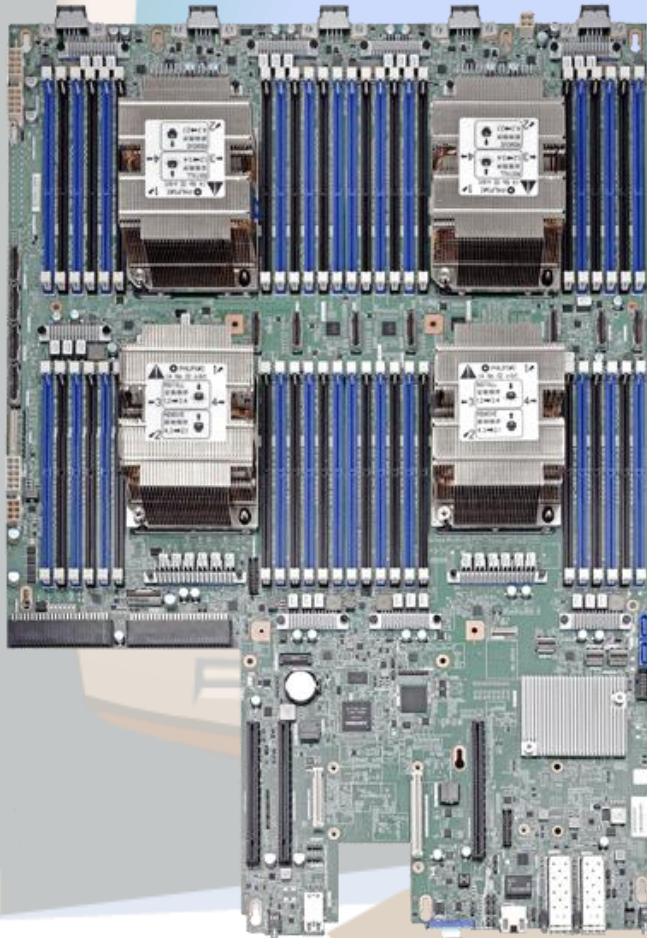
Functions of Motherboard

- **It integrates all Hardware components into one system**
- **Allows all parts of your computer to receive power and communicate with one another.**

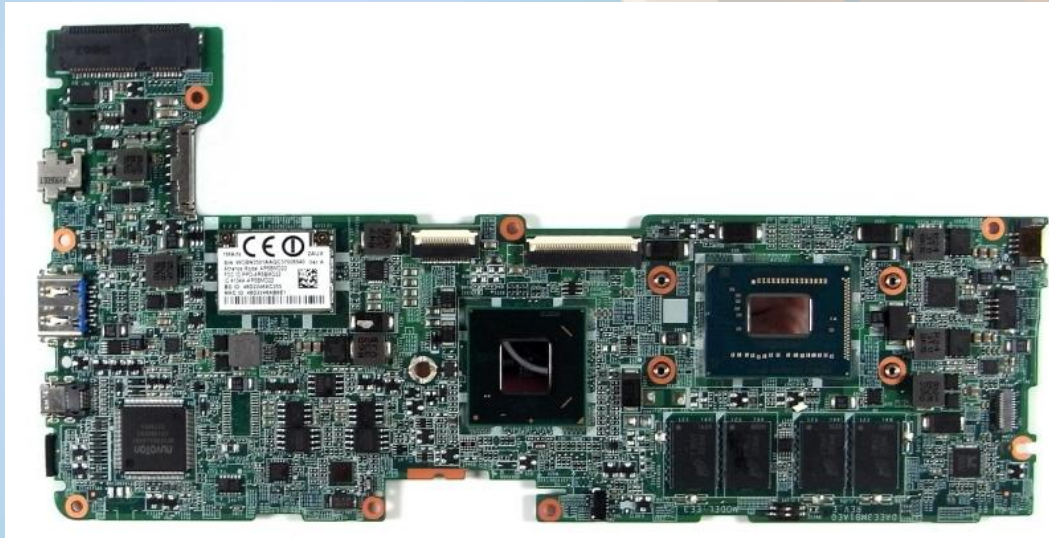
VARIOUS DESKTOP MOTHERBOARDS



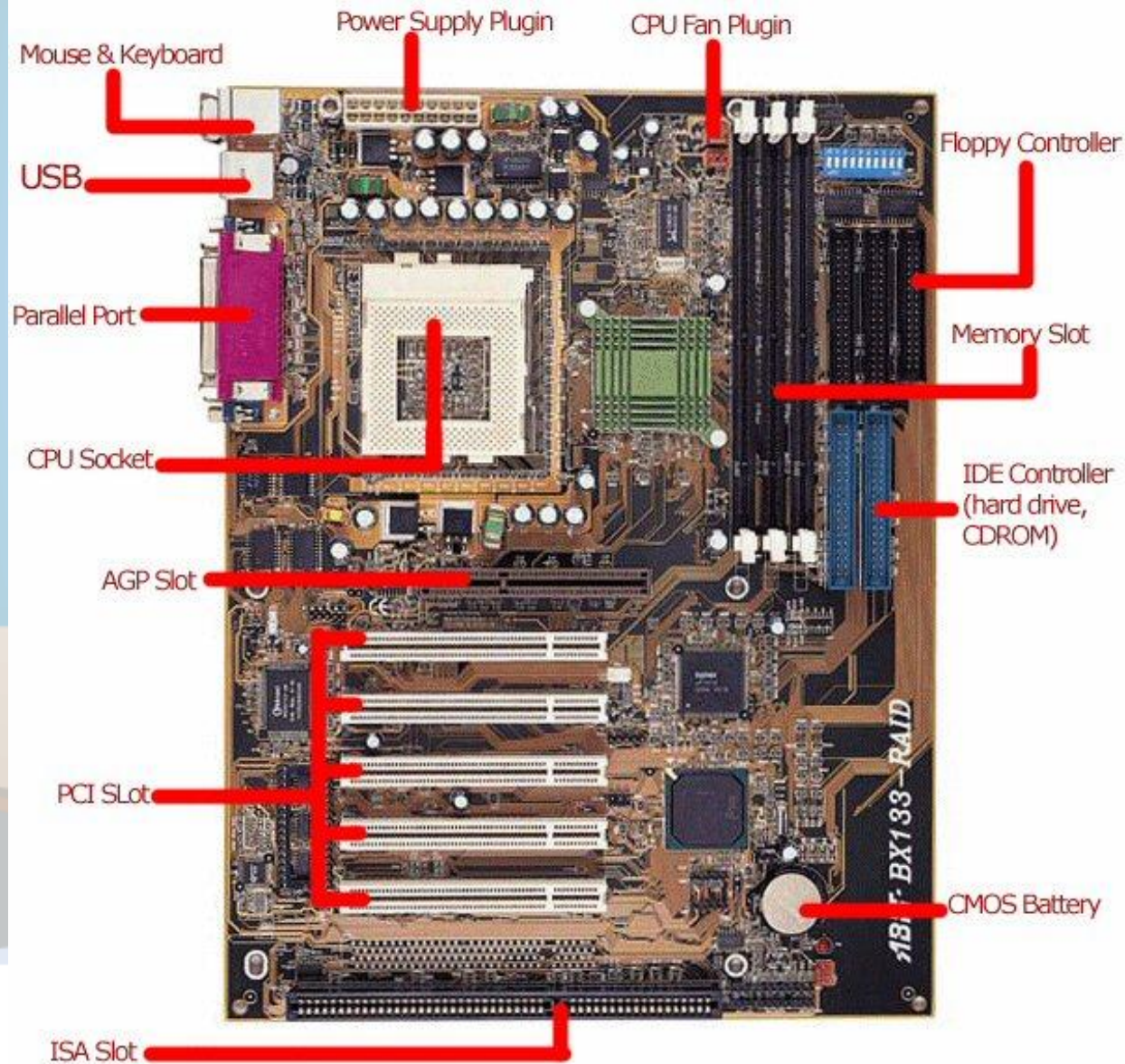
VARIOUS SERVER MOTHERBOARDS



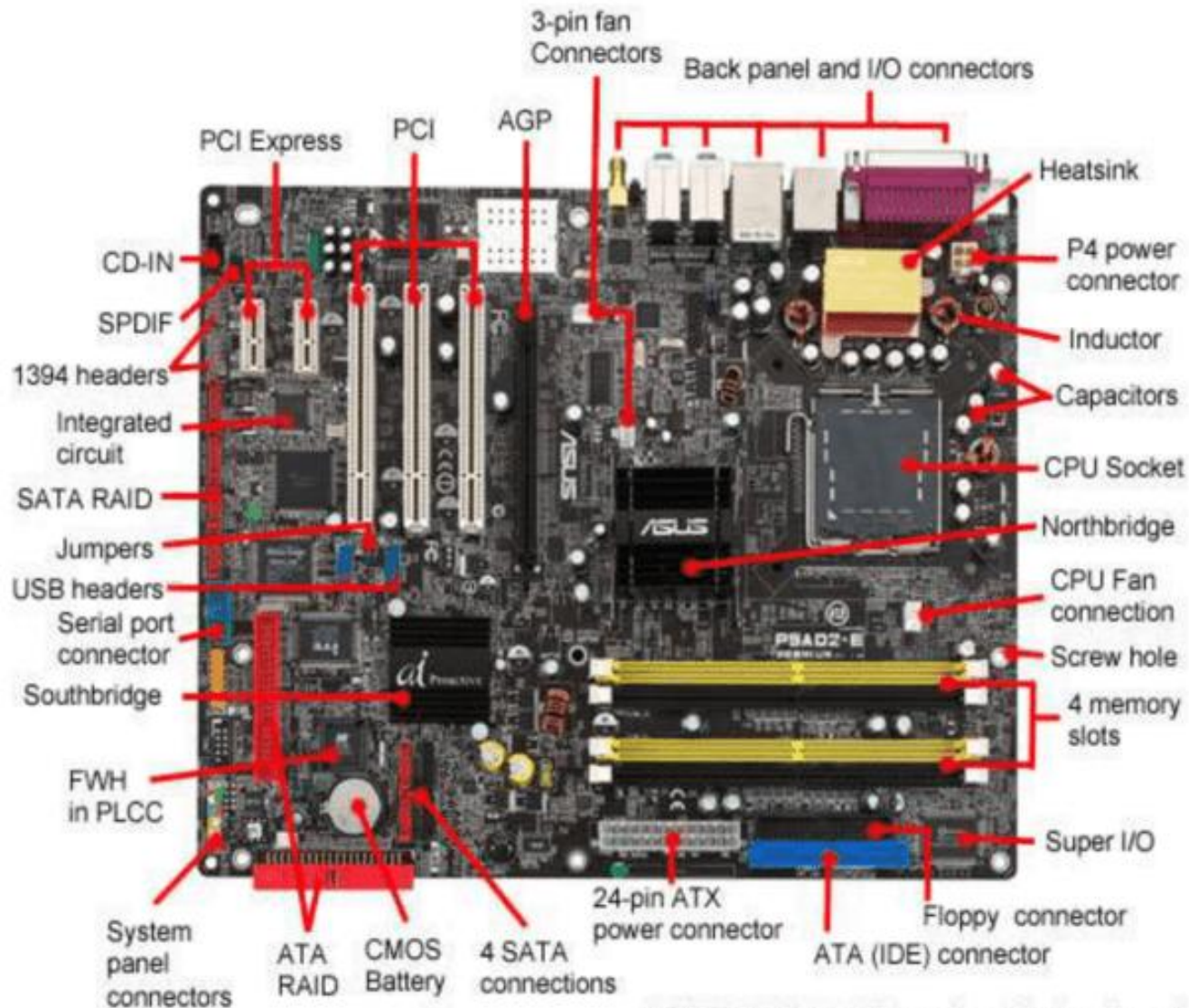
VARIOUS LAPTOP MOTHERBOARDS



OLD MOTHERBOARD



MODERN MOTHERBOARD

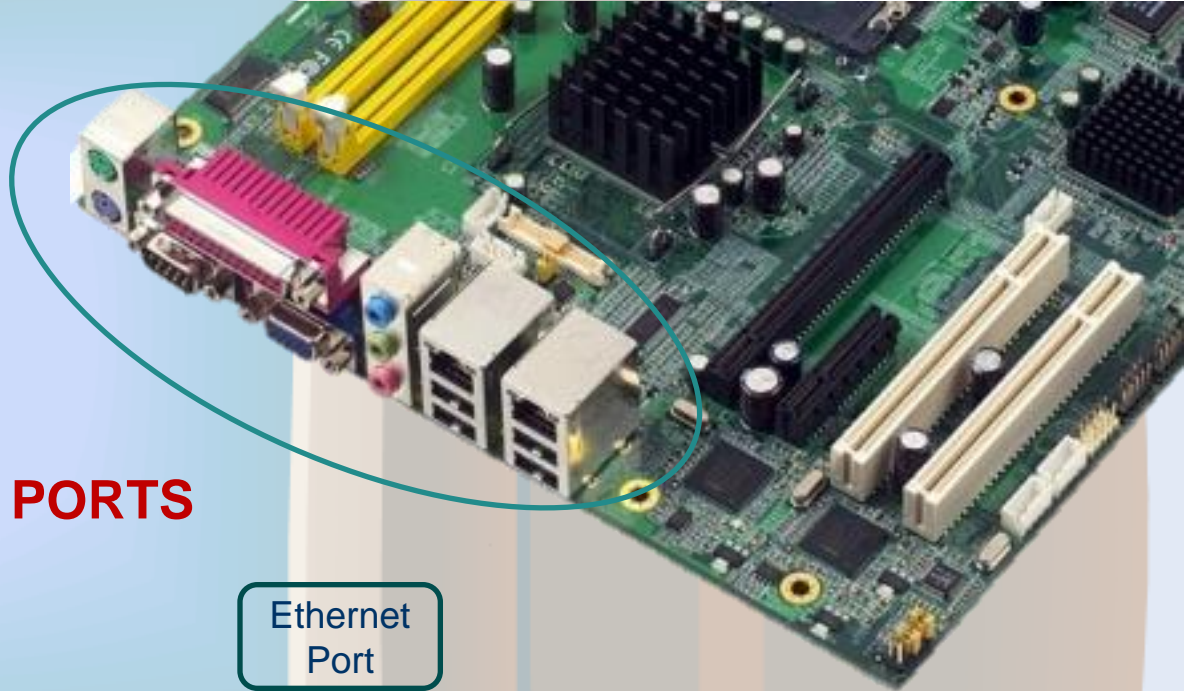
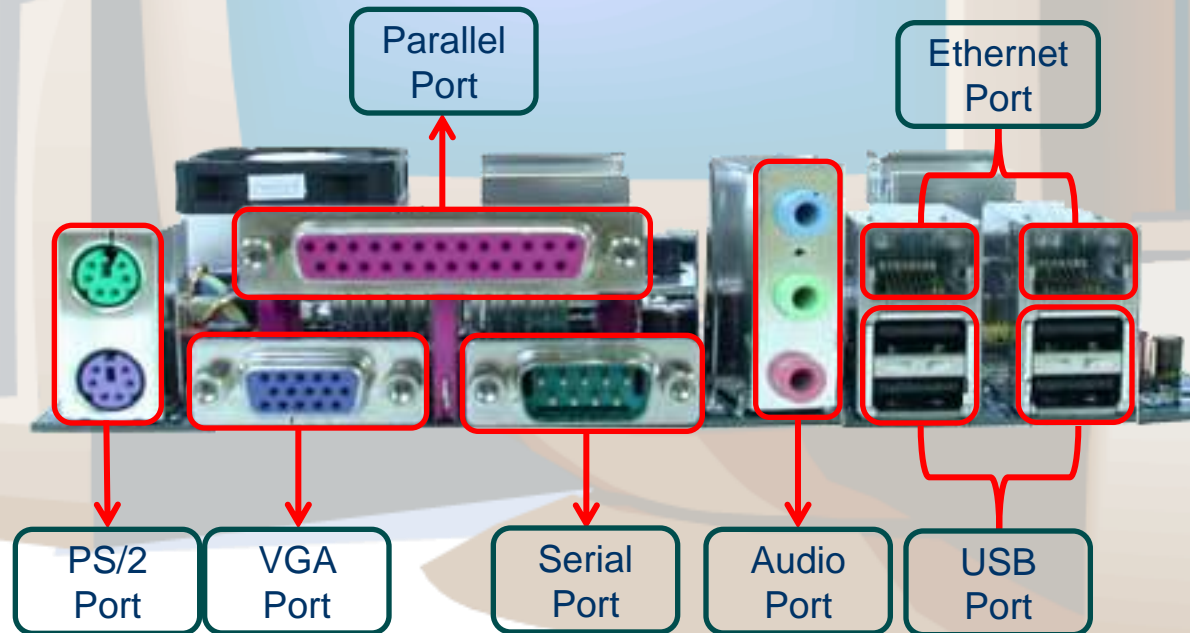


ASUS P5AD2-E Premium Motherboard

<http://www.computerhope.com>

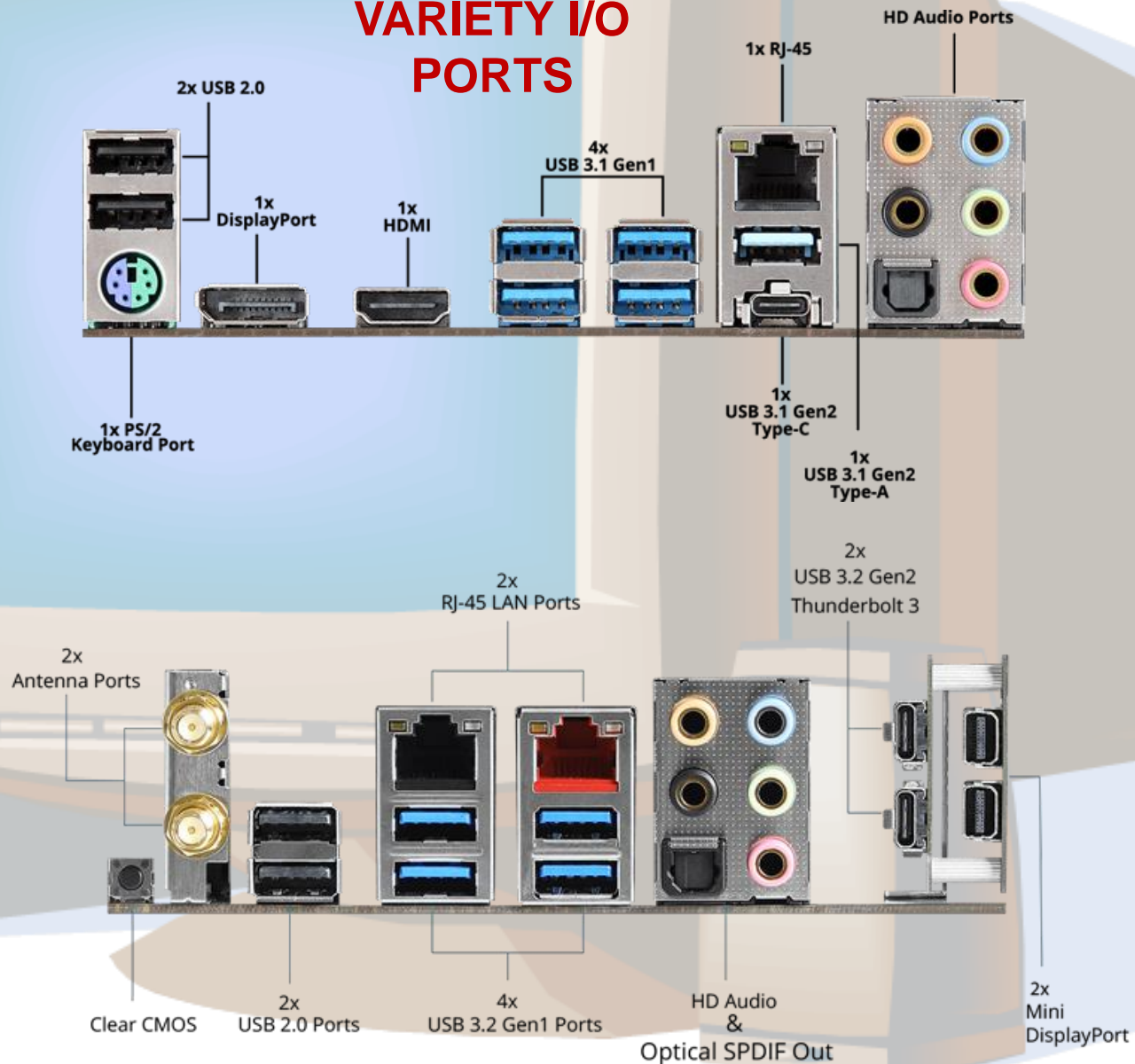
OLD MOTHERBOARD

I/O PORTS



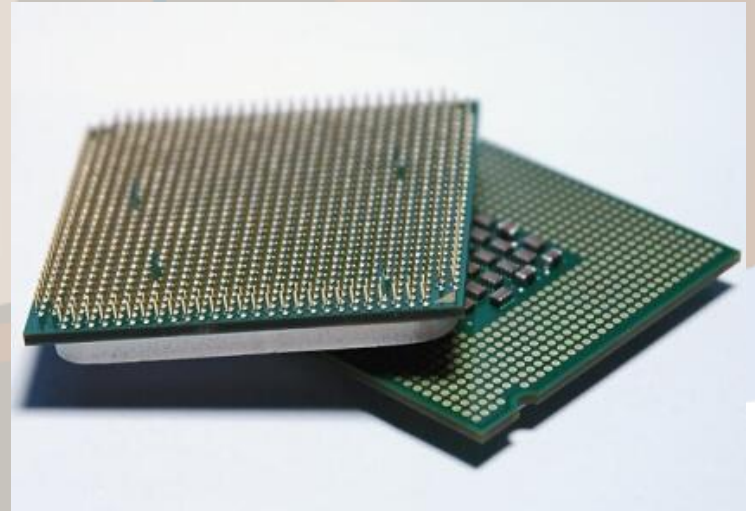
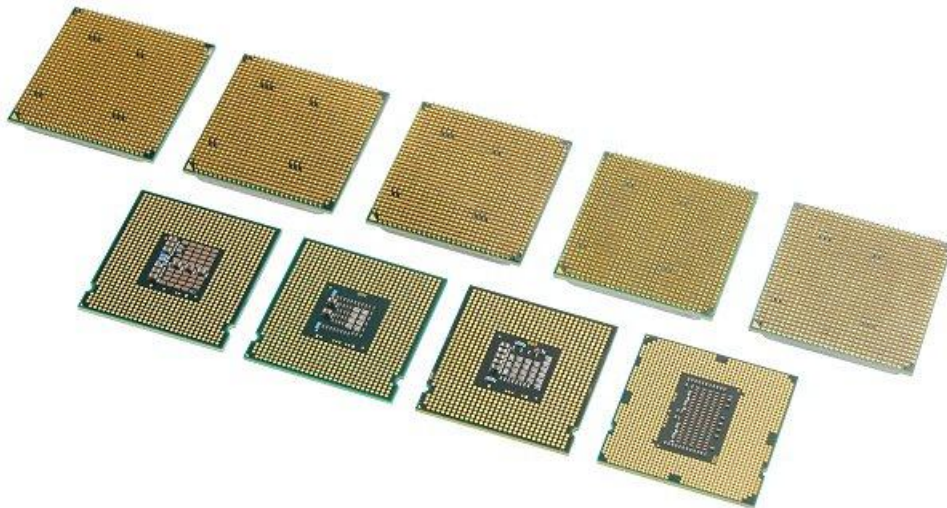
MODERN MOTHERBOARD

VARIETY I/O PORTS



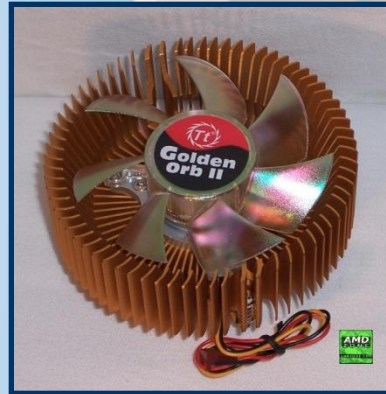
PROCESSOR

- The processor is a chip or a logical circuit that responds and processes the basic instructions to drive a particular computer. The processor is also called the brain of any system which incorporates computers, laptops, smartphones, embedded systems, etc.



COOLING

- **Enemy #1: Heat**
- **Active cooling**
- **Passive cooling**
- **Moving parts wear out**



RAM (Random Access Memory)

- The information stored in this type of memory is lost when the power supply to the PC or laptop is switched off.

DDR RAM



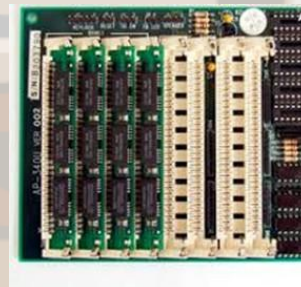
VRAM



RD RAM

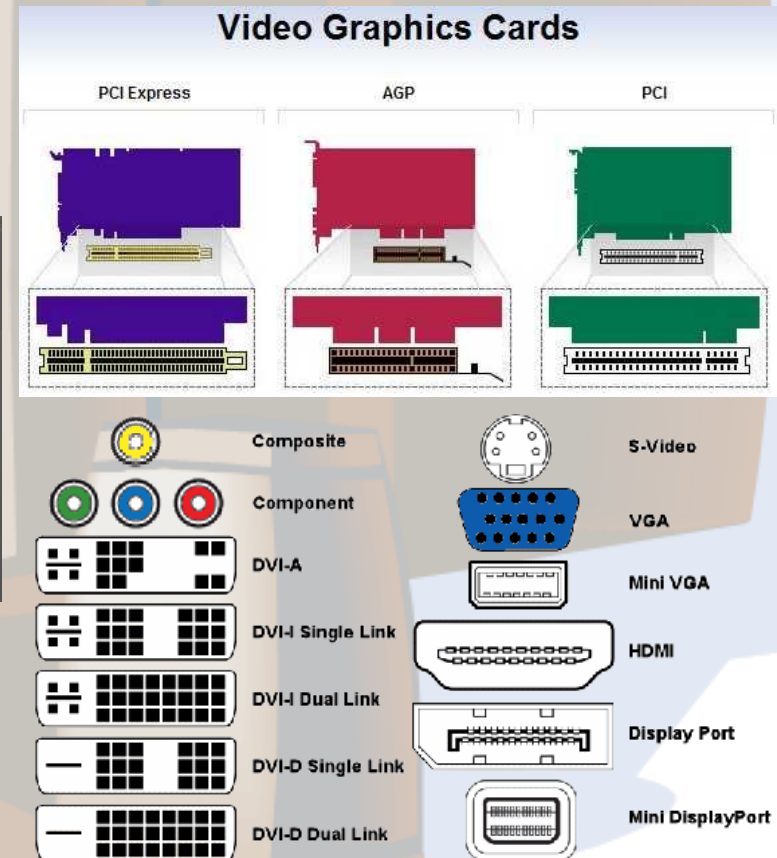


FPM DRAM



VIDEO CARDS

- A video card is an expansion card which generates a feed of output images to a display device (such as a computer monitor).



STORAGE DEVICES

- Storage devices are the computer hardware used to remember/store data.
 1. Hard Disk Drive (HDD)
 2. Solid State Drive (SSD)
 3. USB Flash Memory



DIFFERENT EXPANSION CARDS

