

Components present inside a PC Cabinet



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Components in a PC Cabinet:-

The CPU Cabinet contains various components that are interconnected. These include:-

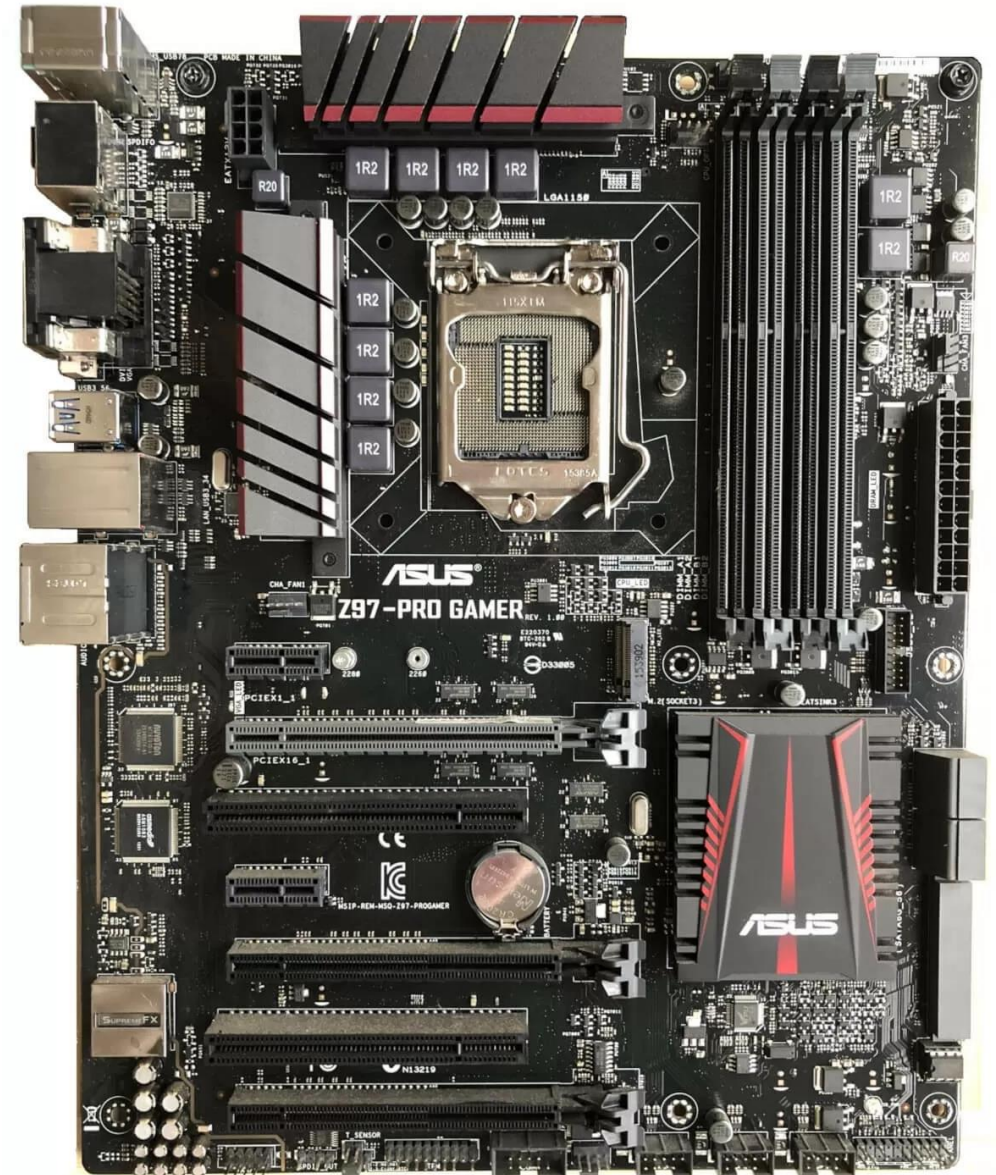
- Motherboard
- Micro-Processor
- Storage Hardwares
- RAM (Random Access Memory)
- GPU (Graphical Processing Unit)
- Power Supply, etc.

The Motherboard

The Motherboard is the main workcentre of the Computer as it stores access to all the parts of a computer system directly or indirectly and manages all the overall works of a computer.

It contains the RAM, Micro-Processor & the NVME variants of SSDs.

It also has a Sound Card, Graphics Card & CPU Ports in it.



Micro-Processor

It is the Masterplace of all the processing that takes place in a computer.

It is used to process all the data given as input by the user.

It is also used to control the Complex CPU-Heavy tasks such as: Multi-tasking, Sending information to the Storage Hardwares to store them.

It consists of Cores and Threads that proves the Chip's power and processing capabilities.



CPU cooler

It is used to keep the CPU cool and pass on the Cabinet Airflow.



Thermal Paste

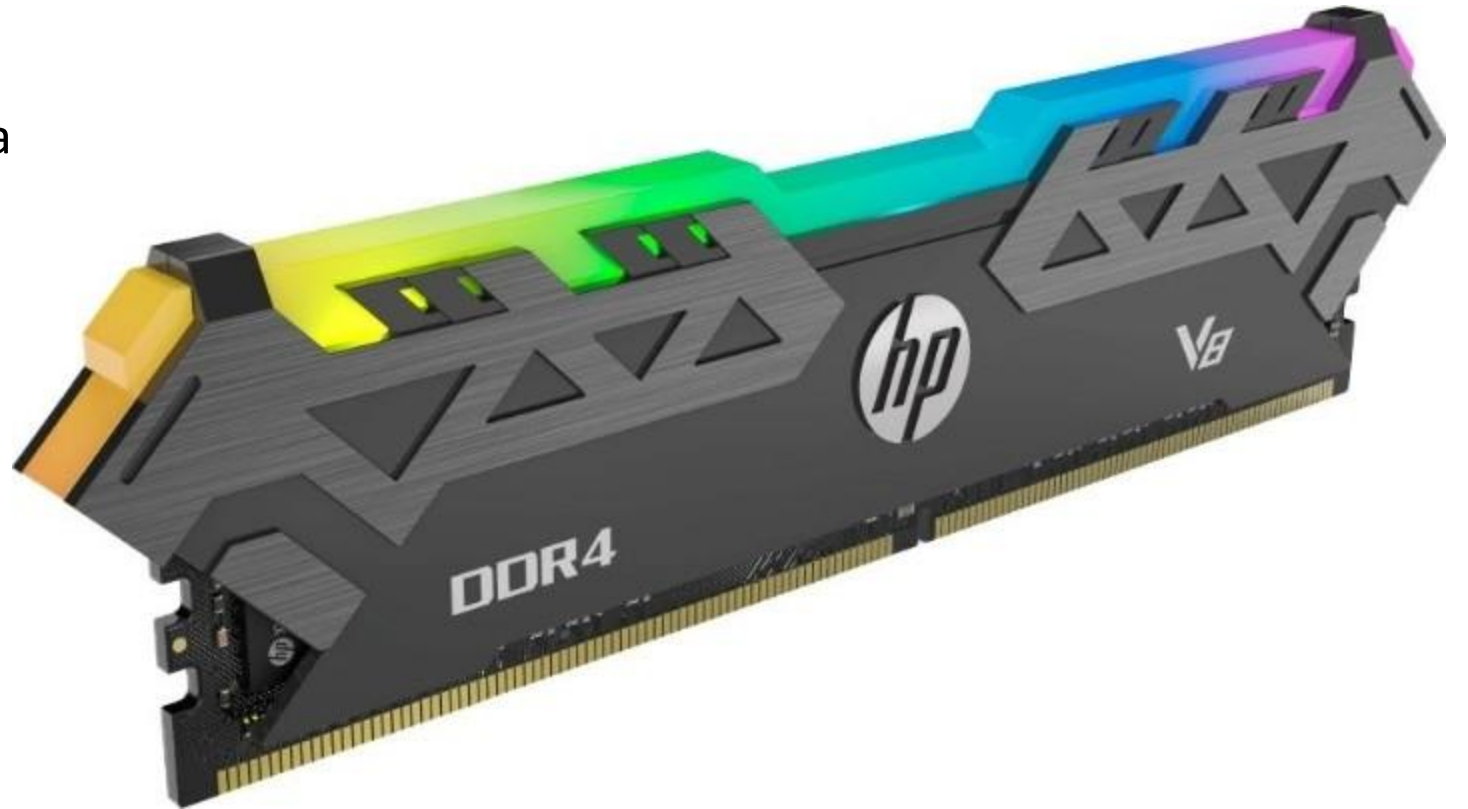
It is applied between the CPU Cooler and the Micro-Processor.

It ensures that the CPU is not heat up and also acts like a glue between the CPU Cooler and the Processor.



Random Access Memory

- Random Access Memory or RAM is a Stick-like chip installed on the Motherboard.
- It is a temporary memory , as data stored in it is cleared once the computer is shut down.



Storage hardwares

There are primarily two storage hardwares present in a computer system :-

- Hard disk drive(HDD)
- Solid state drive(SSD)

Hard disk drive(HDD)

It is used to store data and files in our Computer.

It consists of the magnetic wheels that are placed one above another to store our data.



Solid State Drive

- It is used to store the OS as it is faster and more reliable than the HDDs.
- They are also more expensive than the HDDs.

SSDs are of two variants:-

1. SATA Based SSDs.
2. NVME SSDs.

SATA Based SSDs



NVME SSDs

- They are a bit more safer, cheaper & faster than that of the SATA Based SSDs.



Graphical Processing Unit (GPU)

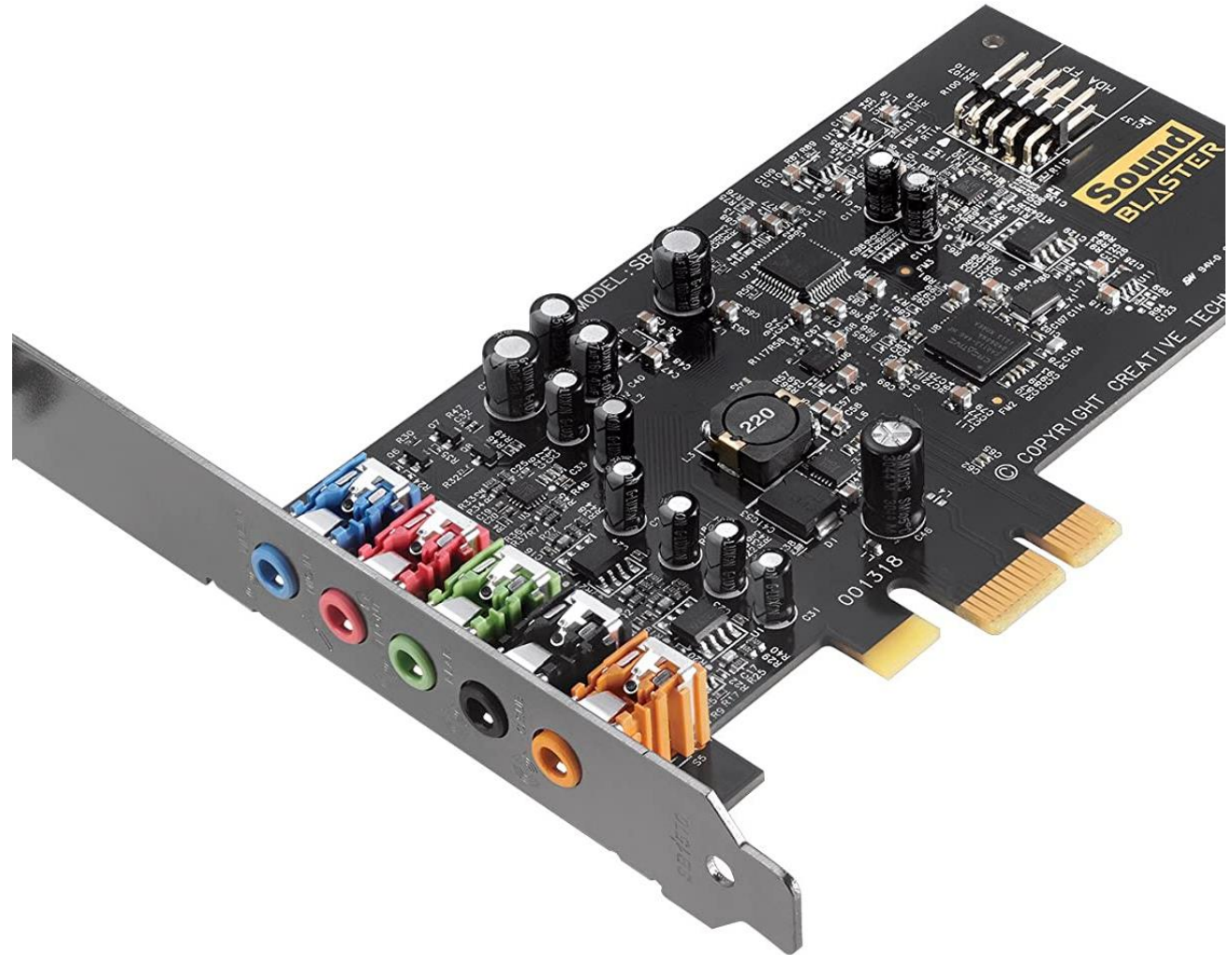
- It performs all the graphical related things in a Computer.
- It also has a VRAM that enables it to work more efficiently.



Sound Card

It controls all the Sound processing and converts the digital audio to audible audio and vice versa.

It actually needs a Speaker or Headphone connected in order to work.



WiFi Card

- It enables the computer to connect with the nearest WiFi Connection and ensures the connectivity of the computer with the source.

WiFi Cards are of two variants:-

1. External
2. Internal

Internal WiFi Cards





External WiFi Cards

Power Supply

Power Supply converts the AC Current to DC Current and ensures that all the parts of the Computer receive proper power supply.



Cabinet Fans

The Cabinet Fans are present in the Cabinet to maintain the airflow. It can be a singular as well as multiple depending upon the cabinet's needs.



THANKS FOR WATCHING!