

# Computer Hardware

Computer hardware refers to the physical components that make up a computer system. It includes all the tangible parts of a computer that you can see and touch. Hardware works together with software to perform computing tasks efficiently.

## Main Components of Computer Hardware:

- **Input Devices:** These devices are used to input data and commands into the computer. Examples: Keyboard, Mouse, Scanner, Microphone.
- **Output Devices:** These devices display or produce the results of computer processing. Examples: Monitor, Printer, Speaker, Projector.
- **Central Processing Unit (CPU):** Often called the brain of the computer. It performs calculations and executes instructions.
- **Memory (RAM & ROM):** RAM stores data temporarily, while ROM stores essential instructions permanently.
- **Storage Devices:** Used to store data permanently. Examples: Hard Disk Drive (HDD), Solid-State Drive (SSD), USB Flash Drive.
- **Motherboard:** The main circuit board that connects all components of the computer.
- **Power Supply Unit (PSU):** Provides power to all the components of the computer.
- **Expansion Cards:** Additional components like graphics cards, sound cards, and network cards that enhance system performance.

## Peripheral Devices:

Peripheral devices are external devices that connect to a computer to add functionality. Examples include external hard drives, webcams, printers, and game controllers.

## Importance of Hardware:

- Hardware allows software to function properly.
- Efficient hardware improves overall system performance.
- Modern hardware enables faster computing and multitasking.
- Upgrading hardware can extend the life of a computer system.

In summary, computer hardware forms the backbone of any computer system. Understanding its components and their functions is essential for maintaining and improving computer performance.