

Basic case

- Types: desktop, tower (mini, midi, big)
- Power supply: 230 V, 300W (UPS – uninterruptible power supply) + fan
- plug-in for mainboard, storage devices) (HDD, DCD ROM/RW)
- Power switch, reset switch, diodes (green-power, red-HDD)

INTERNAL COMPONENTS OF PC

Main (mother) board

- basic component of PC
- BIOS – Basic in-out system (battery 2,5V)
- Ports for components: DIMM for RAM, PCI slots, AGP - accelerated graphic port for VGA, IDE for storage devices
- Ports for connectors:
PS/2 ports for keyboard (blue) and PS/2 for mouse (green), LPT – parallel port for printer, USB ports on universal serial buss for all USB devices (plug and play connection during running) Sound card onboard – 3 jack ports (green, red, blue)

**CPU – Central processing unit
(processor)**

- composite integrated circuit with clock frequency 2,4 – 3,0 GHz (number of operations per second)
- „brain“ of PC
- operating principle – processing entries, reduction of information to bits (0/1) and output, bit sequence creating
- CPU fan and its power supply

**RAM- Random access memory
(operating memory)**

- to save temporary tasks
- electric circuit with charged or discharged areas 0/1
- connected on DIMM slot
- size (capacity): min. $2^9 = 512$ MB, normally 1 – 4 GB

**VGA - Video graphic adapter
(graphic card)**

- plugged in AGP (accelerated graphic port) on main board or onboard
- to presentation on screen of monitor,
- basic parameters:
 - graphics memory min. 128 MB
 - refresh rate – min. 75Hz
 - graphics resolution min.1280x1024 pixels,
 - number of colors - 2^{32}
- VGA port for connecting monitor data cable

Sound card

- Device for music reproduction, onboard or connected on PCI slot
- green jack port – speakers output
- red jack port – microphone input
- blue jack port – audio input

Network card

- to connect into PC network
- plugged in PCI slot on mainboard

STORAGE DEVICES

HARD DISC DRIVE

- connected by IDE cable or SATA cable
- permanent magnetic recording medium
- size (capacity): min. 160GB, normally 500GB
- disk operating speed: 7 200 rpm, 10 000 rpm
- entry speed – in milliseconds
- HDD formatting – data deleting

DVD-RW DRIVE

- reading and recording CD and DVD
- CD – size (capacity): 700MB
- DVD – size (capacity): 4,7 – 17GB (single layer, dual layer, single side, double side)
- reading parameters : 24x52 – DVDxCD (24x1350KBps x 52x150KBps)
- recording parameters – recording speed (16x)

USB external storage devices

- USB HDD
- USB DVD-RW drive
- USB mass storage device (USB key)
- USB floppy disc drive
