# LAB BOOK

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**Lab 4 – Motherboard 2**

**Part 1**

Description

On the ASRock B450 Steel Legend, I will detail the memory slots, types of HDD or FDD connectors, types of PCI slots, and the use of CMOS in this lab.

Observations

i) Types of peripheral slots :
- PCI : Network card, SCSI , Sound card, Video card
- PCI Express : Video card
- AGP : Video card
- ISA : Network card, Sound card, Video card
- AMR : Modem, Sound card
- CNR : Modem, Network card, Video card
- EISA : SCSI, Network card, Video card

ii) Types of peripheral slots :
- PCI : Network card, SCSI , Sound card, Video card
- PCI Express : Video card
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- AMR : Modem, Sound card
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iii) Types of HDD connections :
- PATA
- SSD
- SATA
- SCSI

iv) Total Number of memory slots : 4
- Memory Slot Type : DIMM

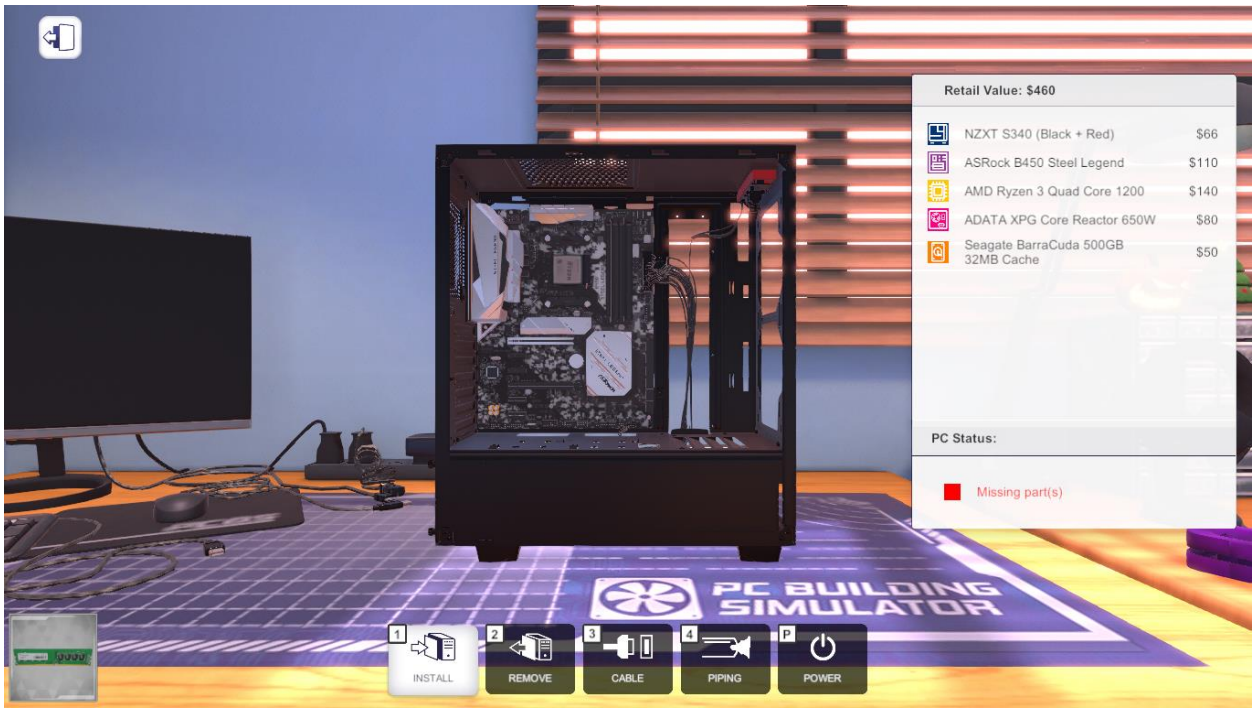
v) Version of USB connections :
- USB Type A : The USB A connector, is predominantly used on host controllers in computers and hubs.
- USB Type B : The B style connector , is intended for USB peripherals such as printers, upstream ports on hubs, and other larger peripheral devices.

- USB Type C : The USB-C connector, is the most recent USB interface to hit the market, coupled with the new USB 3.1 standard.

vi) Types of Video connections :

- DVI : For digital LCD monitors, the DVI port is the current standard. DVI-D supports solely digital transmissions and is found on digital LCD panels. DVI-I accepts both digital and analogue signals.
- HDMI : High-Definition Multimedia Interface (HDMI) is a sort of digital video standard that is supported by video cards and systems with integrated video optimised for home theatre use (HDMI).
- S-Video : S-video splits a video signal into separate luma and chroma signals for use with ordinary TVs, projectors, DVD players, and VCRs.

Screenshots




Reflection

3) The use of CMOS in motherboard :

- The Basic Input/Output System (BIOS) settings are stored in complementary metal-oxide-semiconductor (CMOS) memory on a computer motherboard.

- Microprocessors, microcontrollers, memory chips (including CMOS BIOS), and other digital logic circuits are all built using CMOS technolog.

- For various types of communication, CMOS technology is also used for analogue circuits such as image sensors (CMOS sensors), data converters, RF circuits (RF CMOS), and highly integrated transceivers.

**References**

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