

# Computer Hardware

ICD2O – Mr. Emmell

1

## Video Card

- A.k.a. graphics card, graphics adapter, video adapter
- Function is to generate and output images to a display
- Many video cards offer added functions, such as accelerated rendering of 3D scenes, video capture, TV-tuner adapter, TV output, or the ability to connect multiple monitors

2

# Video Card



Asus  
GeForce RTX 2060

\$319.99


1785 MHz  
OC Mode  
GPU Boost Clock

1755 MHz  
Gaming Mode  
GPU Boost Clock

3

# Video Card

Manufacturer name:  
ASUS



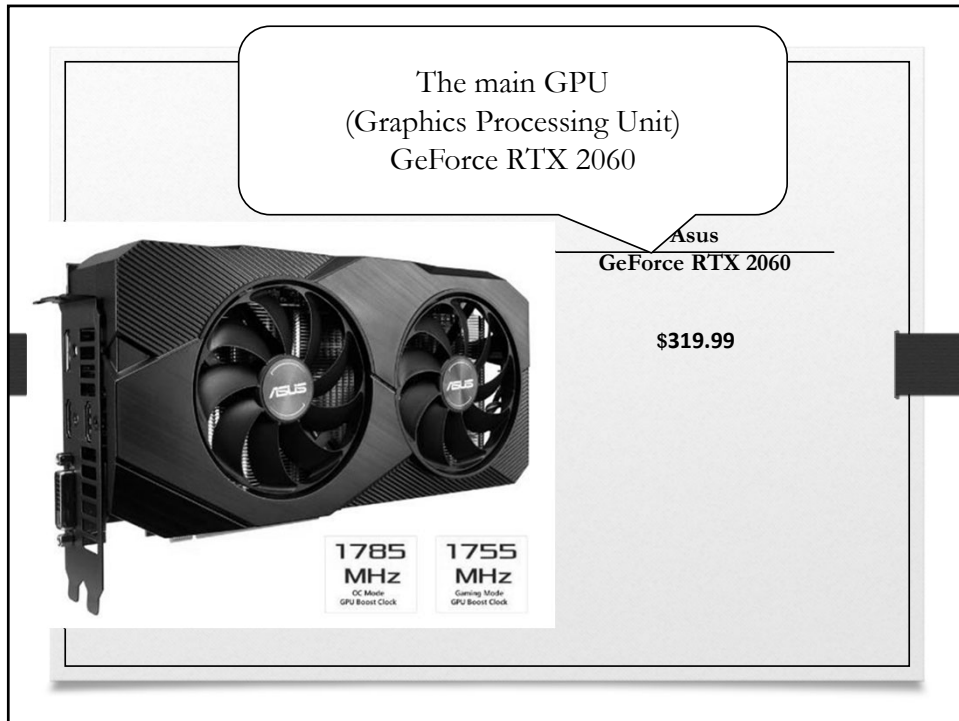
Asus  
GeForce RTX 2060

\$319.99

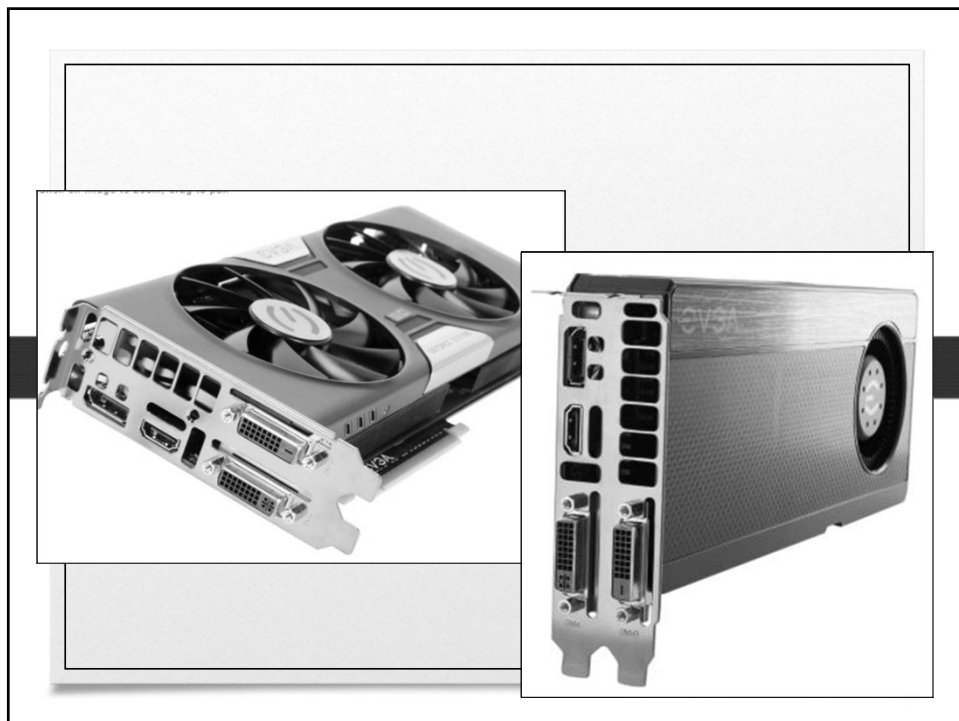
1785 MHz  
OC Mode  
GPU Boost Clock

1755 MHz  
Gaming Mode  
GPU Boost Clock

4



5

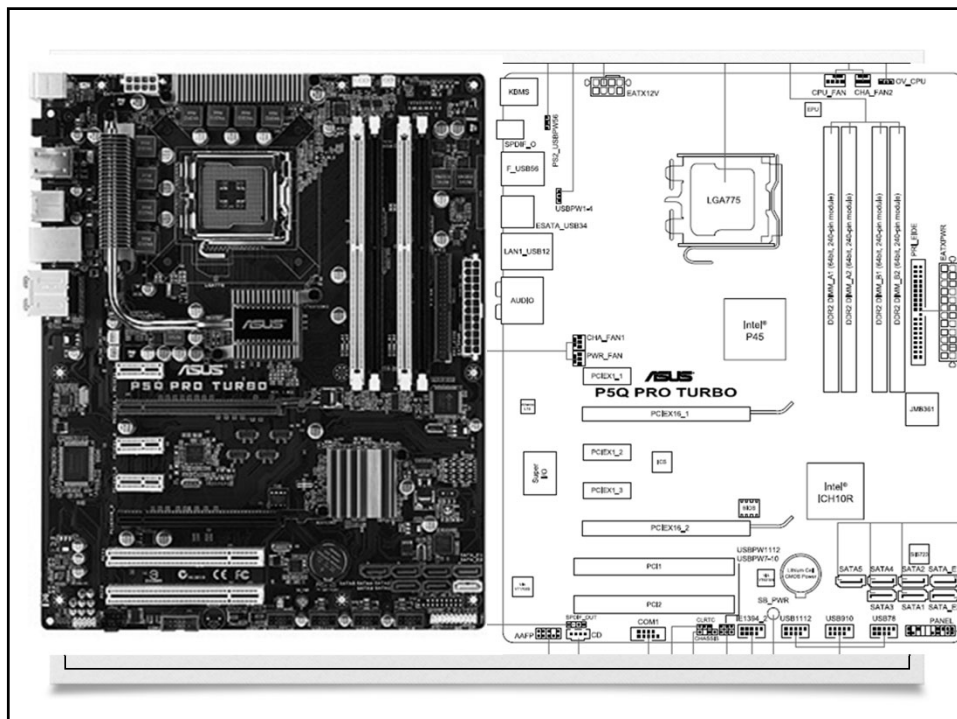


6

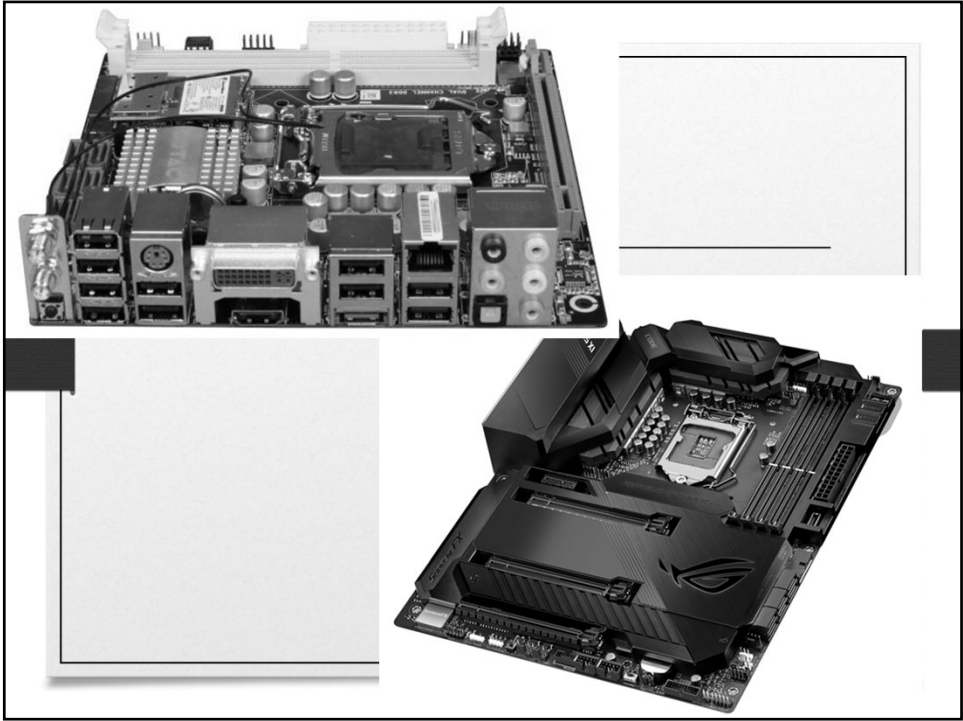
## Putting it all together?

- The motherboard!
- The CPU is the brain, and the motherboard is the nervous system
- The motherboard is the circuit board to which all the other components of the computer connect in some way
- Some motherboards have many features, including built-in sound ,video, and networking


7



8



9




### Some examples

---

\$400

Canada Computers	
Model	Serenity T810 Desktop
Part Number	RTCNO00072
Processor Model	Intel Core i3-8100 Coffee Lake 4-Core/4-Thread Processor
Number of Cores	6
Standard Memory	8GB DDR4
Operating System	Windows 10 Home
Hard Drive Capacity	1 TB HDD

10



### Some examples of packaged computers

\$610

Processor Model	Intel I3-8100 4 Core/4 Thread
Part Number	RTCNO00150
Standard Memory	8GB DDR4
Motherboard	GIGABYTE B365M DS3H WIFI
SSD	512 GB SATA SSD
Brand	CANADA COMPUTERS
Case	Deepcool Matrexx 55 with 500W Bronze PSU

11



### Some examples

\$1830

Hard Drive Capacity	2TB 5400RPM
Processor Model	Intel Core i7-9700F Coffee Lake 8-Core/8-Thread Processor   Socket LGA 1151, 3.0 GHz Base/ 4.7 GHz Max Turbo Frequency
Standard Memory	Crucial Ballistix Sport LT Gray 8GB (2x8GB) DDR4 3000MHz CL15 DIMM
Operating System	Windows 10 Home
Type	Gaming Computer
Brand	Canada Computers
Graphics	Zotac RTX 2070 8GB Mini
Motherboard	ASUS Prime Z390-P LGA1151 (Intel 8th and 9th Gen)
SSD	HP EX900 250GB M.2 PCIe3.1 3D TLC Read: 2100MB/s; Write:1300MB/s Solid State Drive
Case	Corsair Carbide Series Spec-Delta RGB Tempered Glass Mid-Tower ATX Gaming Case, Black (CC-9011166-WW)
Part Number	RTCNO00179
Model	APEX PRIME i-179
Cooling	Corsair Hydro Series H60 High Performance Liquid CPU Cooler
Power Supply	Corsair Vengeance Series, Vengeance 750M

12

### Some examples

Pre-loaded Operating System	Windows 10 Home 64-bit
Processor Type	Intel Core i5-8400
Processor Speed	2.80 GHz
RAM	8 GB DDR4 2666 MHz UDIMM
Hard Disk Drive Capacity	2 TB
Hard Drive Speed	7200 rpm
Optical Drive	DVD+/-RW
Graphics Card	Intel UHD Graphics 630

Pre-loaded Operating System	Windows 10 Home 64-bit
Processor Type	Intel i7-9700K
Processor Speed	3.60 GHz
RAM	16 GB DDR4 2666 MHz UDIMM
Hard Disk Drive Capacity	1 TB
Solid-State Drive Capacity	256 GB
Hard Drive Speed	7200 RPM
Optical Drive	DVD+/-RW
Graphics Card	Nvidia RTX 2080
Video Memory	8GB
Audio Output	High Definition Audio with 5.1 Channel audio support

Pre-loaded Operating System	Windows 10 Home 64-bit English
Processor Type	Intel i5-8400
Processor Speed	2.80 GHz
RAM	8 GB 2666MHz DDR4
Hard Disk Drive Capacity	1 TB
Hard Drive Speed (Revolutions Per Minute)	7200 rpm
Optical Drive	DVD-RW Drive (Reads and Writes to DVD/CD)
Graphics Card	NVIDIA GeForce GTX 1050, 2GB GDDR5 Graphics Memory
Sound Card	Integrated 5.1 Channel with Wave MaxxAudio Pro (Windows)

13

### Some examples

Sale for \$500

Pre-loaded Operating System	Windows 10 Home 64-bit
Processor Type	Intel Core i5-8400
Processor Speed	2.80 GHz
RAM	8 GB DDR4 2666 MHz UDIMM
Hard Disk Drive Capacity	2 TB
Hard Drive Speed	7200 rpm
Optical Drive	DVD+/-RW
Graphics Card	Intel UHD Graphics 630

Pre-loaded Operating System	Windows 10 Home 64-bit
Processor Type	Intel i7-9700K
Processor Speed	3.60 GHz
RAM	16 GB DDR4 2666 MHz UDIMM
Hard Disk Drive Capacity	1 TB
Solid-State Drive Capacity	256 GB
Hard Drive Speed	7200 RPM
Optical Drive	DVD+/-RW
Graphics Card	Nvidia RTX 2080
Video Memory	8GB
Audio Output	High Definition Audio with 5.1 Channel audio support

Sale for \$2300

Pre-loaded Operating System	Windows 10 Home 64-bit English
Processor Type	Intel i5-8400
Processor Speed	2.80 GHz
RAM	8 GB 2666MHz DDR4
Hard Disk Drive Capacity	1 TB
Hard Drive Speed (Revolutions Per Minute)	7200 rpm
Optical Drive	DVD-RW Drive (Reads and Writes to DVD/CD)
Graphics Card	NVIDIA GeForce GTX 1050, 2GB GDDR5 Graphics Memory
Sound Card	Integrated 5.1 Channel with Wave MaxxAudio Pro (Windows)

\$1050

Pre-loaded Operating System	Windows 10 Home 64-bit English
Processor Type	Intel i5-8400
Processor Speed	2.80 GHz
RAM	8 GB 2666MHz DDR4
Hard Disk Drive Capacity	1 TB
Hard Drive Speed (Revolutions Per Minute)	7200 rpm
Optical Drive	DVD-RW Drive (Reads and Writes to DVD/CD)
Graphics Card	NVIDIA GeForce GTX 1050, 2GB GDDR5 Graphics Memory
Sound Card	Integrated 5.1 Channel with Wave MaxxAudio Pro (Windows)

14

## And what to put it all in?

- Some kind of case!
- Different shapes, sizes, and purposes

15



16





17



18



19



20