

Practical 1

Computer Hardware Research

Label

A Power Supply

Description on powersupply

A power Supply is an electrical device that supplies electric power to an electrical load. The main purpose of a power supply is to convert electric currents.

B DVD disk drive

Description on DVD disk drive

The DVD disk drive is a optical disk data storage format used for movie storage or used to play DVDs.

C CPU

Description on CPU

A central processing unit (CPU) also called a central processor, main processor or just a processor, is the electric circuitry that executes instructions.

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D Fan

Description on Fan

A fan is a hardware device that keeps the overall computer or a computer device cool by circulating air to or from the computer or component.

E GPU

Description on GPU

A GPU is a processing unit, a specialized processor originally designed to accelerate graphics rendering.

F RAM

Description on RAM

A ram (Random Access memory) is the hardware in a computing device where the operating system (OS), application programs and data in current use are kept so they can be quickly accessed by the devices processor.

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Part D

www.paradigit.ie

PC: Paradigit Gaming Extreme 127

Pre-Assembled computer package Computer package components

CPU	AMD Ryzen 7 3700X	AMD Ryzen 7 3700X
Storage/memory		
RAM	16 GB RAM	8 GB RAM
Hard Drive	512 GB NVME	61 4TB Western Digital Red
Keyboard	N/A	Dell multimedia keyboard
Pointing device	N/A	Dell optical mouse
Monitor		Dell 27 curved monitor
Speaker	N/A	Logitech 2100 Series
Network	WiFi and Ethernet	Ethernet wired
Bundled Software	N/A	N/A
Total cost	1,328	2,320.14

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Part C Option A and Option B

Cache

For the CPU I recommend getting one 4mb cache because its a lot more faster than the 512 kb and its built in and its faster than the main memory so if you got the 512 kb you ~~would~~ shouldn't be able to change it.

CPU: For the CPU I highly recommend the 3.2 GHz Intel Core i5 for its a lot more faster and higher than 2.2. Intel Celeron 450. ~~as~~ 2GB a lot more fast and has a higher speed rate and frame per seconds on games like above 60fps.

RAM: For the Ram I do recommend having an 8GB. The reason being this is because having more RAM means fast as windows requires a lot of ram to run a lot of apps in the background. In the background without barely any lag. Also if you are a gamer you if you upgrade from 4GB to 8GB it will give you more ~~easy~~ FPS and edge in gaming.

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Hard drive? For the hard drive it highly depends on how many documents you want on your computer and how much space it will take for 220 GB Drive after other files I do recommend 1 TB due to the games they need to install such as Minecraft and Half-Life as well as Fortnite and all those games will take up to at least 100 GB out of the 220 GB also including updates will add more space onto the drive.

Keyboard: The USB multifunction keyboard is definitely a good option to go for due to it being more reliable and useful in various situations and has an excellent reaction timing. The wireless keyboard is good but unless devices connected to an actual home base device can be delayed on timing or the keyboard or even slow on reaction timing I do not recommend this even when you are gaming or typing as I recommend the Logitech G910 as its more reliable and faster.

Practical 2

Pointing device: As you see as the keyboard or wireless mouse ~~is~~ is not recommended as it can be slow and delayed or move round and going and when you are searching on google. The USB mouse is a lot faster as it is connected by USB and has a more stable and faster and less of a delay when moving the mouse. Therefore i do recommend the USB mouse.

Screen: For the screen i do recommend the 25" HD flatscreen monitor as its more HD as the 22" HD monitor and wider but if it depends on how big you want your screen to be. Although the 22" HD monitor is also ~~more~~ more cheaper than the 25" HD monitor and a lot more valuable.

Speakers: For speakers i do recommend the integrated 10/100/1000芙蓉 as it will come with a front cable and is more fast and reliable than bluetooth delay.

Network Adapter: i recommend Ethernet cable for it will have a more faster connection and better speed.

Practical 2

Personal computer Recommendation	
CPU	3.2 GHz Intel Core i5
Memory	
RAM	8 GB RAM
Hard Drive	1 TB Hard Drive
SSD Drive	
<u>Input/Output</u>	
Keyboard	USB multifunction keyboard
Pointing Device	USB optical mouse
Screen	20" HD flat screen monitor
Speakers	Integrated 10/100/1000 Ethernet
Network Adapter	Ethernet
GPU	Asus Dual-RTX 2060-06G-Evo

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Checked: Yes

Group: A