

Lab - Research a Hardware Upgrade

Introduction

Use the Internet, a newspaper, or a local store to gather information about hardware components. Your customer's computer currently has one module of 2 GB of RAM, a 500 GB hard disk drive, and a PCIe video adapter card with 256 MB of RAM. Your customer wants to be able to play advanced video games.

Instructions

Step 1: Research memory options.

Shop around, and in the table below list the brand, model number, features, and cost for two different 8 GB modules of DDR3.

Brand and Model Number	Features	Cost
Team Elite 8gb 1x8 Memory 1600mhz Ddr3 with Heatspreader	Adherence to JEDEC and compliance to RoHS with respect to environmental protection regulation, production and manufacturing	₱857.00
A-Tech RAM 16GB Kit (2x8GB) DDR3 1333 MHz PC3-10600 DIMM	Easy to install and boosts the performance of your system by speeding up loading times, improving system responsiveness, and increasing your system's ability to handle greater workloads	₱1,392.48

Question:

Based on your research, which RAM would you select? Be prepared to discuss your decisions regarding the RAM you select.

The ram that I would select is the A-Tech RAM 16GB Kit because it speeds up the loading time and improves your system in handling great workloads.

Step 2: Research hard disk drive options.

Shop around, and in the table below list the brand, model number, features, and cost for a 3 TB 7200 rpm SATA 3 hard disk drive and a 500GB or 1TB solid state drive (SSD).

Brand and Model Number	Features	Cost
Seagate Barracuda 3TB 7200rpm SATA III Internal Hard Drive (ST3000DM001)	Go beyond 3TB with DiscWizard software	₱4,237.43
Samsung 870 EVO Sata III 2.5" SSD – 1TB (MZ-77E1T0BW)	computing to 8K video processing, with up to 600 TBW	₱5,295.00

Question:

Based on your research, which hard disk drive would you select? Be prepared to discuss your decisions regarding the hard disk drive you select.

The hard disk drive that I would select is the Seagate Barracuda 3TB because of its price and it can go beyond 3tb with wizard software.

Step 3: Research video adapter card options.

Shop around, and in the table below list the brand, model number, features, and cost for two different PCIe video adapter cards with at least 1 GB of RAM.

Brand and Model Number	Features	Cost
ASUS Graphic cards HD discrete graphics 9600 9800 HD6670 6570 7470 R5 230 GT240 GT610 TG620 TG720 DDr3 GPU	ASUS HD discrete graphics 9800GT GT250 GT450 GTX550TI Graphic Card	₱1,166
MSI N210-MD1G/D3 - Graphics card - GF 210 - 1 GB GDDR3 - PCIe 2.0 x16 - DVI, D-Sub, HDMI	Product Details of MSI N210-MD1G/D3 Graphics Card with NVIDIA GeForce 210, 1GB GDDR3 1000Mhz Memory, Dual-link DVI-I, D-Sub, and HDMI:	₱2,299

Question:

Based on your research, which video adapter card would you select? Be prepared to discuss your decisions regarding the video adapter card you select.

I would select the MSI N210-MD1G/D3 - Graphics card Because of its good features and it can also improve my computer.

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