

Marqui Joshua Cenar 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
Kingston Hyper Fury	8GB, 1600Mhz	₱520–₱1,200
Crucial	DDR3, 1600Mhz	₱1,200–₱1,500

Question:

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

I would prefer the Kingston hyper fury due to its practical price, trusted, and it is commonly used by people here where I'm from.

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
Samsung 870 EVO MZ-77E1T0B/AM	1 TB, up to 550 MB/s speeds, and durable/energy efficient	₱1,399
Seagate or Seagate ST3000DM007	7200 RPM, 256 MB cache	₱2,800–₱5,000

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.

Based on my research and experience, I would choose seagate as a hard disk drive because it's the only one I ever bought and tried myself, and it is surprisingly reliable regardless of the model

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 Phoenix GT PH-GT1030-O2G	2 GB GDDR5 VRAM	₱4,200
NVIDIA GeForce GT 1030	2 GB GDDR5 VRAM, 1506 Mhz	₱3,800

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.

Based on pure research, the ASUS Phoenix is the safer option for this category. It's basically a more trusted and reliable version of my other given brand, though it's not cheaper, other models of it has a cheaper price and can vary from different stores.