Study of graphics/Display adapters.

একটি Graphics /Display adapters এর মূল গাঠনিক উগাদানসমূহ চিহ্নিত করন এবং সেগুলোর মধ্যে আম্প্রসম্পর্ক স্থাপনের মাধ্যমে কার্যপোযোগী করন এবং সেইসাথে Graphics /Display adapters এর কার্যাবলী অবহিত হওয়া।

Study of graphics/Display adapters :

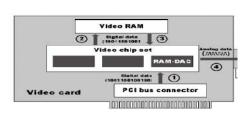
Video Cards and Monitors

- The video controller card is the interface between the monitor and the computer. These cards are sometimes called graphic adapters, video boards, graphics cards, or display cards.
- Sometimes the video controller is integrated into the system board. If you are buying a system board with this integrated video controller, check that you can disable the controller on the system board if it needs replacement or gives you trouble. You can then install a video card and bypass the controller on the system board.
- The quality of a video subsystem is rated according to how it affects overall system performance, video quality (including resolution and color), power-saving features, and ease of use and installation.
- The video controller is separate from the core system functions, so manufacturers can use a variety of techniques to improve performance without worrying about compatibility with system board functions. An example of this flexibility is seen in the many different ways memory is managed on a video controller.

Video Cards

- A video card is an expansion card responsible for the following:
- Receiving data and instructions from the CPU
- Processing the data
- Sending the data to the monitor

Four basic functions occur on the video card, as seen in the following figure:



Four Basic Functions of a Video Card
(1) The digital data arrives from the system bus to the video chip set on the video card.
(2) The video chip set writes the digital data to video memory on the card.
(3) The data stored in video memory is passed to the digital analog converter (RAM DAC).
(4) RAM DAC passes the analog data to the monitor.