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All computers, laptops, palmtops require memory upgrade at some point of time and you have to be pretty sure about it right when you buy any of these computing systems. Memory upgrade or RAM upgrade becomes necessary for increasing the processing speed of your computer. Letâ€™s get into the basics first and know what is a RAM Memory and its different types. RAM Memory is random access memory and the temporary information stored in them can be accessed in random order rather than going through the sequential order.

The information stored in RAM Memory unit would require the information processing through the central processing unit, or CPU. The types of RAM memory units which are extensively being used in computers include Synchronous Dynamic RAM (SDRAM) and Rambus Dynamic RAM (RDRAM) or DDR2 RAM. The choice of memory upgrade will depend upon the processing speeds of your computer as well as compatibility. Different types of RAM memories work at different speeds and also need to follow different statistics. It becomes very essential that you look into the technical details including the speeds when going for RDRAM Memory upgrade or even going for DDR2 Memory upgrade or for that matter upgrading SDRAM Memory.

Let us check into the details of different types of Memory as this will guide you in making the right choice in RAM memory upgrade.

DDR2 Memory

DDR2 Memory or Double Data Rate 2, has come to replace DDR1 and is considered to be the new generation in DDR technology. DDR 2 Memory unit is quite different from the DDR1 memory physically and cannot be used on the computers which are not essentially designed for the use. DDR2 memory has 240 pins as compared to the DDR 1 memory which only has 180 pins. DDR 2 Memory will have minimum speed of 400 MHz, which in case of DDR 1 memory is the highest one. When you upgrade your computer from DDR 1 memory to DDR2 Memory, definitely you will be moving on to better computer performance and can easily adjust to higher data bandwidths. DDR 2 memory consumes less power and therefore, you will save plenty on the electricity bills. Whatâ€™s more, DDR2 enhances the thermal performance of your computer and therefore, your PC will be cool even after you have worked on it for longer duration of time.

SD RAM Memory

SD RAM Memory is quite different physically as well as working from many other types of asynchronous memory. The memory waits for every computing cycle or clock speed prior to processing the input data. These digital clocks work fast, possibly, millions of times in a second, but due to limitation by computer bus, the speed of processing is delayed.

RD RAM Memory

RD RAM Memory or the Rambus Dynamic Random Access Memory is designed to be used in desktop computers, notebooks, and also different versions of video game systems such as the Playstation 2 and the Nintendo 64. You will find RD RAM apple memory upgrade doing real time wonders to your business.

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