DDR Memory

ByteStor Double-Data-Rate (DDR) modules are produced using PREMIUM GRADE components. Memory chips are sourced from producers such as SAMSUNG who supply many of the leading computer manufacturers. Adding extra memory is quick and easy, and is the most cost effective way of boosting performance.

DDR memory due to the way it is accessed can run twice as fast as SDRAM PC100/133 (older technology).

If you have a question regarding DDR memory upgrades or are not sure which memory you need. Please fill a support form at http://www.bytestor.com/support.asp or send an email to mailto:support@bytestor.com Please specify the make and model of your system with the type of CPU e.g. Compaq EVO D330. CPU: Celeron 2.0 GHz

DDR memory is the latest type of memory used in many systems. PC2100 was available in machines from early 2001. PC2700 and PC3200 systems were released in the middle of 2002.

Choosing DDR memory

1. Make sure that your system can accept DDR modules. Refer to your computer's manual or manufacturer's website. Normally, the type will be specified e.g. "PC2100 or 266MHz or DDR266". Effective Speed, Front-Side-Bus (FSB) or Bandwidth (see below) may also specify the module. If you manual states two options say, PC 2100 or PC 2700 – It is better to buy the higher option (PC2700)

Type	Effective Speed	Front-Side-Bus (FSB)	Bandwidth
PC2100	266 MHz (DDR266)	133 MHz	2.1 GB/s
PC2700	333 MHz (DDR333)	166 MHz	2.7 GB/s
PC3200	400 MHz (DDR400)	200 MHz	3.2 GB/s

PC's with a 100MHz or 133MHz FSB require PC100/PC133 SDRAM modules. SDRAM and DDR modules are different and cannot be used in the same system. ByteStor does not currently sell SDRAM modules.

   - For a desktop you will normally require a 184 pin DDR DIMM, for a notebook you will require a smaller 200 pin DDR SO-DIMM. See images on last page.

   - Generally, PC3200 modules are backward compatible with PC2700 and PC2100 systems, but the module will run at a speed to match the system.

2. Decide on the capacity of memory you require e.g. 256MB or 512MB. Generally, more memory delivers a more responsive system. Keep in mind the following points:

   - The amount of memory currently installed. If you have Windows, right-click on "My Computer" and select "Properties" The "general" tab will tell you how much memory you have.

- The maximum amount of memory your hardware will accept.
- The maximum amount of memory your Operating system will recognise e.g. Windows.

  Windows 95/98/98SE – 1GB
  Windows ME – 1.5GB
  Windows NT/2000/XP (Desktop) – 4GB (Servers may have a higher maximum)
  Mac OSX – 8GB + (please check your computer's manual)

- The number of sockets available. Depending of your computer model systems will normally have 1, 2, 3 or more sockets spare. If all sockets are full, you may need to remove a lower capacity module. In some notebooks only one upgrade slot is available. If you haven't upgraded before, your system will normally have at least one free upgrade slot.

- On certain systems (Dual Channel), memory modules have to be installed in identical pairs. So for a 512MB upgrade – 2 X 256MB modules have to be installed. Please order 2 modules at a time, if this is the case.

- If you are using graphic, rendering or video editing packages. These will run more efficiently with more memory.

DDR

DDR memory will not work in older SDRAM PC133/PC100 systems. ByteStor do not market SDRAM modules. DDR modules are not compatible with DDR2 systems.

ECC

Currently, ByteStor DDR memory modules are non-ECC. This is the most common type for desktops and notebooks. ECC modules are mainly used in high-end or server environments. (ECC is an error correction system for memory)

Registered Memory

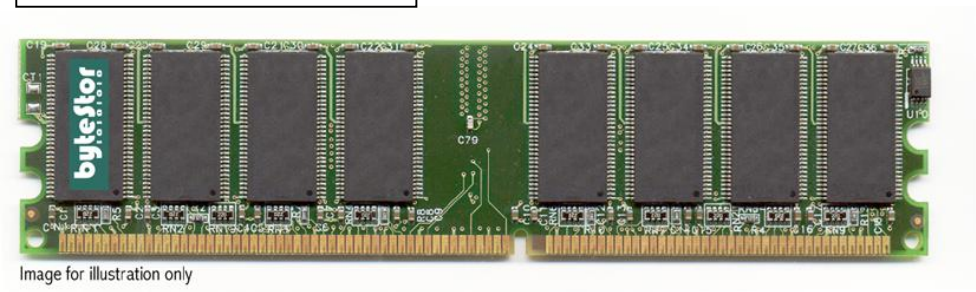
ByteStor DDR memory is unregistered. This is the most common type for desktops and notebooks. Registered memory is used in used in high-end or server environments. (Registering is a buffering system).

To Buy

Please type in the part number into “search our shops” at http://www.amazon.co.uk/

Title	Part Number
ByteStor 256MB PC2100 DDR 266MHz 184pin DIMM for Desktops	BSDDR-256-2100-DIMM
ByteStor 512MB PC2100 DDR 266MHz 184pin DIMM for Desktops	BSDDR-512-2100-DIMM
ByteStor 256MB PC2700 DDR 333MHz 184Pin DIMM for Desktops	BSDDR-256-2700-DIMM
ByteStor 512MB PC2700 DDR 333MHz 184Pin DIMM for Desktops	BSDDR-512-2700-DIMM
ByteStor 256MB PC3200 DDR 400MHz 184Pin DIMM for Desktops	BSDDR-256-3200-DIMM
ByteStor 512MB PC3200 DDR 400MHz 184Pin DIMM for Desktops	BSDDR-512-3200-DIMM
ByteStor 256MB PC2100 DDR 266MHz 200 Pin So-DIMM for Notebooks	BSDDR-256-2100-SODIM
ByteStor 512MB PC2100 DDR 266MHz 200 Pin So-DIMM for Notebooks	BSDDR-512-2100-SODIM
ByteStor 256MB PC2700 DDR 333MHz 200 Pin So-DIMM for Notebooks	BSDDR-256-2700-SODIM
ByteStor 512MB PC2100 DDR 333MHz 200 Pin So-DIMM for Notebooks	BSDDR-512-2700-SODIM

DDR DIMM for desktops



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DDR SO DIMM for notebooks

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