

## **Build Your Own PC Summary**

The cornerstone of any personal computer is the case; I chose the Enermax Mid Tower Model. The black aluminum case intrigued me with the unique side window display. The Enermax has room for a 12"x 9.6" mainboard ATX; Pentium 4, 400W PowerUp ATX, four 5.25" drive bays, and two 3.5" drive bays. There are three cooling fans; one in the front, one on the side, and one in the rear. The input/output interface is on the front of the machine for easy accessibility; they include a 2.0 USB, audio in/out, and Fire Wire connections.

Next, I found the Asus P4 i865PE 800MHz DDR Sata ATX Motherboard, which seemed to be the best value for my purposes. The dimension of the motherboard, 12"x9.6", fit perfectly in the case. This motherboard contained an Intel 865PE sound card, one socket processor, maximum bus speed of 800 MHz, RAID (serial ATA-150 / DMA/ATA-133) storage controller, could use up to 4 GB of RAM, and had Marvell Yukon 88E8001 network adapter. The following are just a few of the expansion slots that were available, four Hi-speed USB (4 pin), two audio jacks, one floppy interface (34pin IDC), two DMA/ATA storage (40 pin IDC), and one Fire Wire connector. Another added feature of the motherboard was that the heat sink unit was included.

I decided on a 3.2 GHz Intel P4 800 MHz processor. This processor is compatible with Windows XP, designed for superior performance with digital video, digital music, 3D gaming, and it has enough power to handle DVD video creations.

Memory, that is compatible with the motherboard, was next on the list of items needed for the computer. I chose Kingston 1GB DDR PC3200 400MHz 184 pin. This stick of memory was ample for video editing needs.

Next, I searched for the different drives. The hard drive that I chose is an internal Western Digital 80GB IDE 7200RPM. This drive is designed for high-performance storage, 8 MB buffer, embedded error detection and repair, environmental protection system, 63 sectors per track, and 16383 cylinders. For my floppy drive, I went with an internal Sony MPF920-Z; it is compatible with Windows XP, matches my case color, has 1.44MB capacity, and is a standard 34-pin for easy installation. Magic 8X CDRW/DVD+-RW/+R Drive is the CD/DVD drive I decided on. This particular drive is internal, compatible with Windows XP, burns CD's and DVD's, and has stereo sound. My CD drive is a 656-A BenQ. The CD is a 56X maximum

speed and is CAV (Constant Angular Velocity) technology that reads data at various transfer rates. This ensures less stress on the motor, thus ensures better reliability of the drive.

My next search involved the information lifelines, or drive cables. I decided on two IDE Cable Ribbons that are 1.6 feet in length and have three 40-socket female connectors; one to attach the cable to the controller card, and two for attaching drives. This cable is fully tested and certified to meet industry standards. One floppy cable ribbon will be used to connect the hard drive to the motherboard.

The first piece to locate in the list of adapters is the video card; I chose the IBM Quadro4 200 NVS. This video card features a single high-density connector and provides flexibility for dual-analog or digital displays. The Quadro4 200 comes with 64MB of graphics memory, is compatible with Windows XP, and supports multiple monitors (if needed). Intel 865PE sound card and Marvell Yukon 88E800 network card are both integrated on the motherboard. The US Robotics 56K modem is a great value for my personal computer. It comes with communications, fax and Internet access software, and is compatible with Windows XP. The modem transfer rate is 56 Kbps, while the fax transfer rate is 14.4 Kbps. The next item to find is a Logitech Elite Keyboard. This new keyboard provides enhanced function key commands, is compatible with Windows XP, and is a 4-pin USB connection. When looking for my mouse, I found a 4-pin USB (black) three button optical Microsoft Wheel Mouse that can be programmed. To save space, I chose a 15" HP VF52 flat panel monitor. The monitor has stereo speakers, and multimedia capability, which will be perfect for the video editing. For my printing needs I decided on a HP Business Inkjet 1100d Color Printer. This printer is compatible with Windows XP, prints 23ppm including two-sided capabilities, is small network capable, and connects via USB. To protect my PC creation I chose the Minuteman MCP BP1000 UPS Battery. This UPS has four connectors and a runtime of 7.2 minutes at full load. The chosen surge protector is an APC Basic Surge Protector Suppressor. This unit is a great value for home applications. The final adapter items are the software. For my PC creation I am going to use MS Windows XP Home Edition with SP1a, which is designed exclusively for home computing, and Microsoft Word. For video editing, Pinnacle Studio Movie Box is my choice for software.