

Chapter 2

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Features

Features of the 6BX86 / 6ZX86 / 6VIA86 / 6VIA86P M/B

The 6BX86 / 6ZX86 / 6VIA86 / 6VIA86P is designed for the PC user's who want many new key features processed by the fastest CPU in a economic package. This mainboard :

⌚ **New general CPU support :**

- Solt1 support to 866 MHz processor.
- Socket 370 Celeron (533MHz ,677MHz(1.5V))processor.
- Socket 370 Coppermine (500MHz~800MHz)processor.

⌚ **Intel Chipset :**

Intel 440 BX PCIsset™ /Intel 440 BX PCIsset™ /VIA APOLLO PRO/PRO133 chips with I/O subsystems.



Biggest memory capacity :

6BX86/6VIA86/6VIA86P is equipped with three DIMM socket to support (16MB, 32MB, 64MB, 128MB, 256MB) 168 pin 3.3v EDO RAM Module Maximum memory up to 768MB or 3.3v SDRAM. Maximum memory up to 768MB.

6ZX86 is equipped with two DIMM socket to support 168 pin 3.3v SDRAM SPD(Special Presence Detect).Maximum memory up to 512MB.



AGP for fast VGA solution :

AGP (Accelerator Graphic Port) will enhance & improve display performance and Application. The bus speed is 66 MHz 2x Mode.



ISA & PCI Expansion Slot :

Provide two 16 bit ISA, and three 32 bit PCI slots.



PCI Bus Master IDE Controller :

Comes with an on-board PCI Bus Master IDE controller with two connectors that supports four IDE devices in two channels, enable to transfer data at much faster rate, and supports Enhanced IDE devices such as Tape Backup and CD-ROM devices (ATAPI). This controller supports PIO modes 3 and 4 (16.6MB/sec.) , and Ultra DMA 33/66 (**only 6VIA86P**) (33MB/66MB Sec.) , also supports ZIP100 and LS-120. BIOS supports IDE CD-ROM or SCSI bootup.



Super Multi-I/O :

Provides two high-speed UART2 serial compatible ports (match NS16C550A compatible) and one parallel port with SPP,EPP and ECP capabilities. UART2 can also be directed from COM2 to the Infrared Module for wireless connections. Two floppy drives of either 5.25" or 3.5" (1.25MB,1.44MB or 2.88MB) are also supported without an external card.

- ⌘ **CPU built-in Level 2 Cache :**
0K/128K/256K/512KB Pipeline Burst Level 2 cache in the Pentium II/III Single Edge Contact (SEC) cartridge.
- ⌘ **Desktop Management Interface(DMI) :**
Supports DMI through BIOS which allows hardware to communicate within a standard protocol and create a higher level of capability. (Required DMI- enabled components).
- ⌘ **Advanced Configuration of Power management Interface (ACPI) :**
Support ACPI function BIOS which allows System to control seriously power management.
- ⌘ **Thermal detect (MD9241) :(Optional)**
The system's BIOS will sense CPU's temperature through MD9241 on board. The User can watch what current temperature of CPU is & current CPU FAN status is from Win System. The user will watch the indication on Win 95/98 environment.
- ⌘ **IrDa Port :**
Support this serial fast communication up to 115.2Kbps.
- ⌘ **Support Power on by modem/ Alarm on/ LAN Wake Up :**
Support System power up from Modem ring up or timer or LAN Wake Up of System. Required enabled in Ring on by modem and Alarm on and LAN Wake Up in BIOS.
- ⌘ To support CPU FAN ON/OFF and LED indicator under SUSPEND mode.
- ⌘ To support CPU temperature and Alarm system by warning with sound.

The 6BX86 / 6ZX86 / 6VIA86 / 6VIA86P M/B Layout

