

Chapter 2

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Features

Features to 6BX85/6ZX85/6VIA85/6VIA85P Mainboard

The 6BX85/6ZX85/6VIA85/6VIA85P 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 :**
 - Intel Celeron (300MHz-500MHz) processor.
 - Intel Coppermine (500MHz-733MHz) processor.
 - CPU clock select support for 66/100MHz and up to 133MHz (6VIA 85P) CPU bus speed configuration.

- ∞ **Intel Chipset :**
Intel 440BX PCIsset™ /440ZX PCIsset™/VIA 693+596A (6VIA85)/VIA693A+596B(6VIA85P) chips with I/O subsystems.

- ∞ **Biggest memory capacity :**
6BX85/6ZX85/6VIA85/6VIA85P is equipped with two DIMM socket to support (16MB, 32MB, 64MB, 128MB. 256MB) 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 .

- ∞ **ISA & PCI Expansion Slot :**
Provide two 16 bit ISA, and three 32 bit PCI slots.

- ∞ **PCI Bus Master IDE Controller :**
(VIA Chips support UDMA66)
Comes with an on-board PCI Bus Master IDE, controller with two connectors that supports four IDE devices in two channels, Provides faster data transfer rate, and supports Enhanced IDE devices such as Tape Backup and CD-ROM devices(ATAPI). This controller supports PIO mode 3 and 4 (16.6MB/sec.), and Ultra DMA 33/66 (**only 6VIA85P**) (33/66MB/Sec.), also supports ZIP100 and LS-120. BIOS support IDE CD-ROM or SCSI bootup.

- ∞ **Super Multi-I/O :**
Provides two high-speed UART2 compatible serial 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) are also supported without an external card. Supports Japa-

nese standard "Floppy 3 mode" (3.5" 1.25MB).

- ∞ **CPU built-in Level 2 Cache :**
128KB , 256KB or 512KB Pipeline Burst Level 2 cache in the Socket 370 cartridge.
- ∞ **WOL (Wake On LAN) :**
Supports system power up from LAN ring up .
- ∞ **IrDA Port :**
Support this serial fast communication up to 115.2Kbps.
- ∞ **Support Ring on by modem/Alarm on :**
Support System power up from Modem ring up or timer of System. Required enabled in Ring on by modem and Alarm on in BIOS.
- ∞ To support CPU FAN On/Off and LED indicator under Suspend mode.
- ∞ **To support CPU temperature detect and Alarm warning by sound. (option)**

The 6BX85/6ZX85/6VIA85/6VIA85P Mainboard layout

