

Chapter 2

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Features

Features of the 6BX81/6ZX81/6VIA81/6VIA81P Mainboard

The 6BX81/6ZX81/6VIA81/6VIA81P 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 :**
 - Solt-1 support to 866 MHz processor.
CPU Converter board
 - Socket 370 Celeron(533MHz ,677MHz(1.5V))processor.
 - Socket 370 Coppermine (500MHz~800MHz)processor.

- ⌚ **Intel Chipset :**
Intel 440BX PCIsset™ /440ZX PCIsset™/VIA 693+596A (6VIA81)/VIA693A+596B(6VIA81P) chips with I/O subsystems.
- ⌚ **Biggest memory capacity :**
6BX81/6VIA81/6VIA81P is equipped with three DIMM socket to support (16MB, 32MB, 64MB, 128MB.256MB) 168 pin 3.3v SDRAM SPD(Special Presence Detect).Maximum memory up to 768MB.
6ZX81 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 66MHz 2 x mode .
- ⌚ **ISA & PCI Expansion Slot :**
Provide three 16 bit ISA, and four 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 6VIA81P**) (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 Japanese standard "Floppy 3 mode" (3.5" 1.25MB).

⌂ **WOL (Wake On LAN) :**

Supports system power up from LAN wake 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)**

⌂ **Dimension : 30.5 cm x 18 cm**

⌂ **Supports 16-bits stereo audio controller. Sound Blaster 16/PRO compatible with stereo voice up to 48 KHz sampling rates.(option)**

⌂ **Dual channel game port. (supports Microsoft game-pad up to 8 ports).(option)**

The 6BX81/6ZX81/6VIA81/6VIA81P Mainboard layout

