

6VA7

USER'S MANUAL

1. **System power on by PS/2 Mouse:** First, enable this function in CMOS Setup, then you can power on the system by double clicking the right or left button of your PS/2 Mouse.
2. **System power on by Keyboard:** If your ATX power supply supports larger than 300 mA 5V Stand-By current, you can power on your system by entering password from the Keyboard after setting the "Keyboard power on" jumper (JP1) and password in CMOS Setup.
3. **Support Modem Ring-On.** (Include internal Modem and external modem on COM A and COM B)
4. **Wake-up on LAN supports(on J7):** Your ATX power supply must support larger than 720 mA 5V Stand-By current.
5. **Support 3 steps ACPI LED.**
6. **CPU Over Voltage Protect**

**Celeron™ Socket 370 Processor MAINBOARD
REV. 1.2 First Edition**

R-12-01-090512

The author assumes no responsibility for any errors or omissions which may appear in this document nor does it make a commitment to update the information contained herein.

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May. 12, 1999 Taipei, Taiwan

I. Quick Installation Guide :

CPU SPEED SETUP

The system bus frequency can be switched between 66MHz and 133MHz by adjusting DIP SW2. The CPU frequency ratio can be switched from X3 to X9.5 by adjusting DIP SW1. The user can set up CPU speed for 366~566MHz processors by adjusting SW1 and SW2 properly.

● **The CPU speed must match with the frequency RATIO. It will cause system hanging up if the frequency RATIO is higher than CPU's.**


SW1: (O:ON / X:OFF)

FREQ. RATIO	DIP SWITCH (SW1)			
	1	2	3	4
X 3	O	X	O	O
X 3.5	X	X	O	O
X 4	O	O	X	O
X 4.5	X	O	X	O
X 5	O	X	X	O
X 5.5	X	X	X	O
X 6	O	O	O	X
X 6.5	X	O	O	X
X 7	O	X	O	X
X 7.5	X	X	O	X
X 8	O	O	X	X
X 8.5	X	O	X	X
X 9	O	X	X	X
X 9.5	X	X	X	X

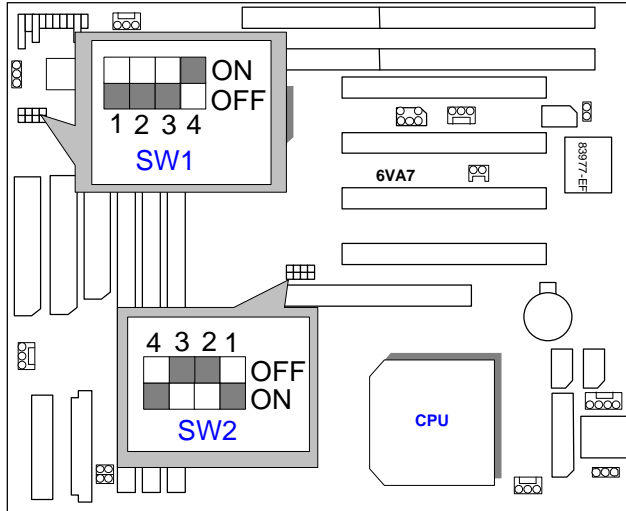
Set System Bus Speed**SW 2 :**

CPU	AGP	1	2	3	4
66	66	ON	OFF	OFF	ON
75	75	ON	ON	OFF	ON
83	83	ON	OFF	ON	ON
100	66	OFF	OFF	OFF	OFF
112	75	OFF	ON	OFF	OFF
133	89	OFF	OFF	ON	OFF

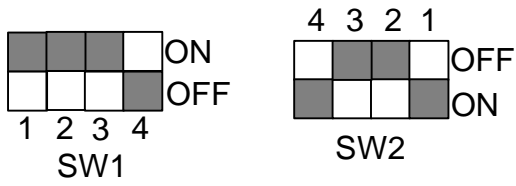
★ **Note:** Please set the CPU host frequency in accordance with your processor's specifications. We don't recommend you to set the system bus frequency over the CPU's specification because these specific bus frequencies are not the standard specifications for CPU, chipset and most of the peripherals. Whether your system can run under these specific bus frequencies properly will depend on your hardware configurations, including CPU, Chipsets, SDRAM, Cards..etc.

 The black part in the picture is the white extruding piece of the DIP switch.

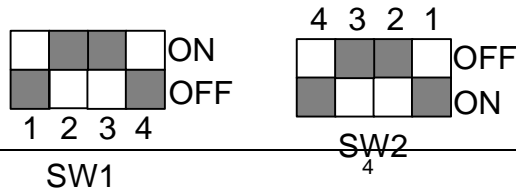
1. Celeron™ 366 MHz / 66MHz FSB



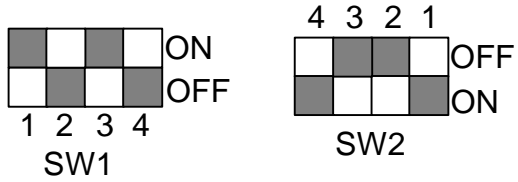
2. Celeron™ 400 MHz / 66MHz FSB



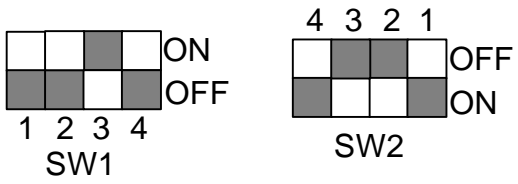
3. Celeron™ 433 MHz / 66MHz FSB



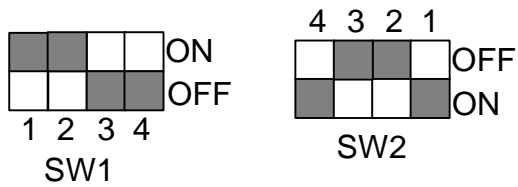
4. Celeron™ 466/ 66 MHz FSB



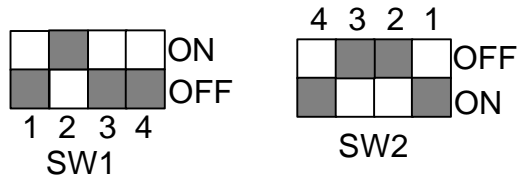
5. Celeron™ 500/ 66 MHz FSB



6. Celeron™ 533/ 66 MHz FSB

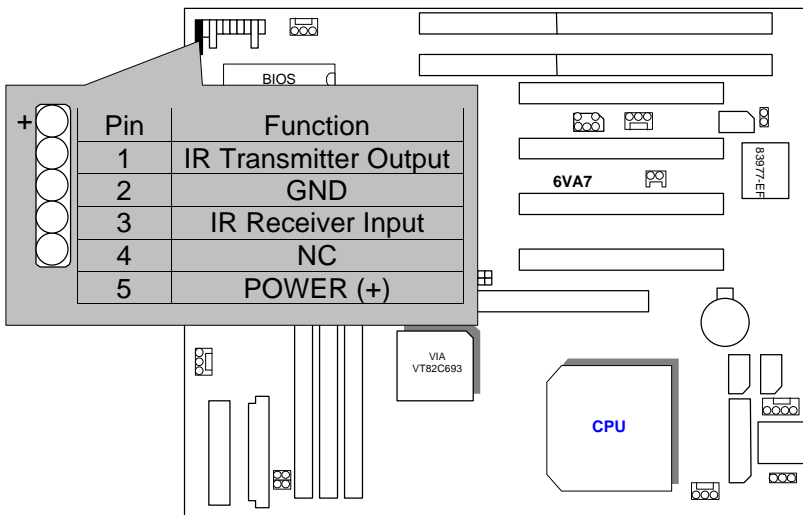


7. Celeron™ 566/ 66 MHz FSB

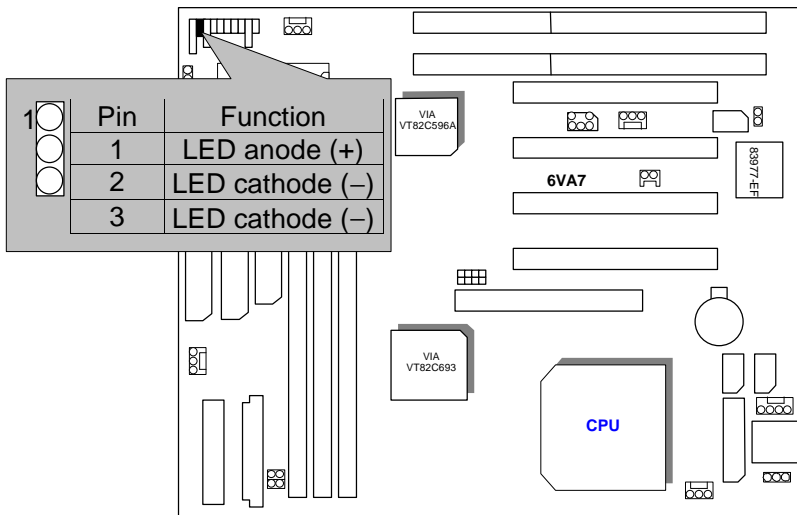


II. Jumper setting :

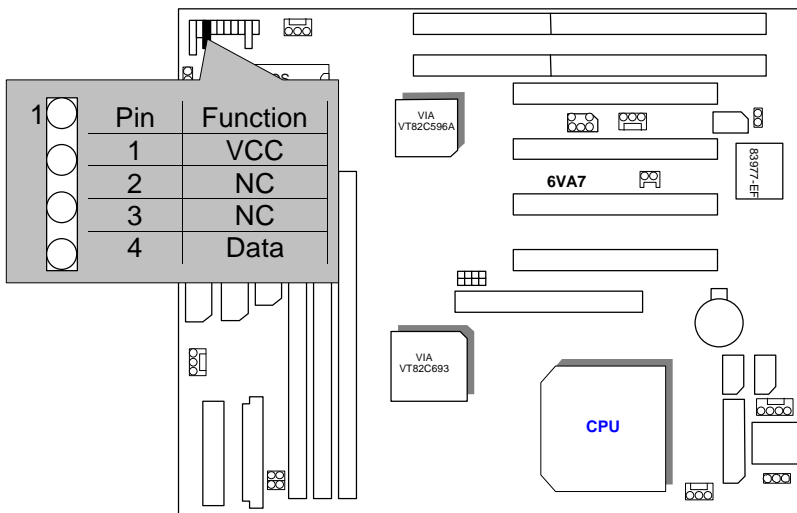
IR : Infrared Connector (Optional)



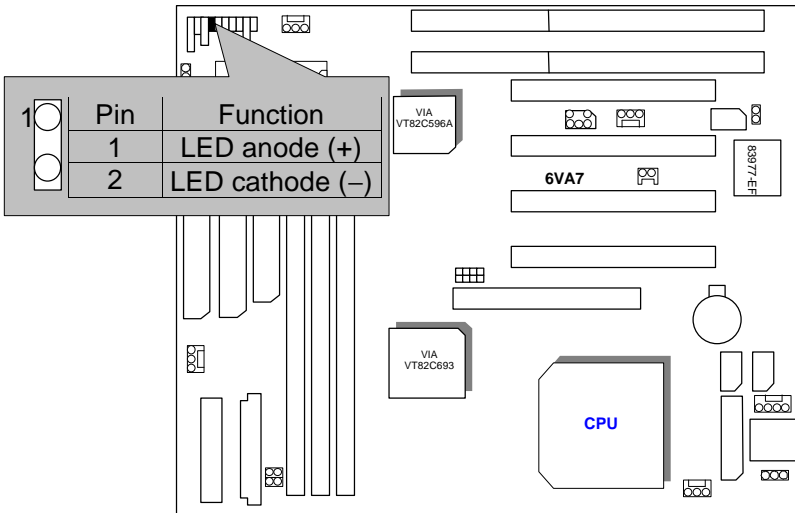
PWR : Power LED Connector



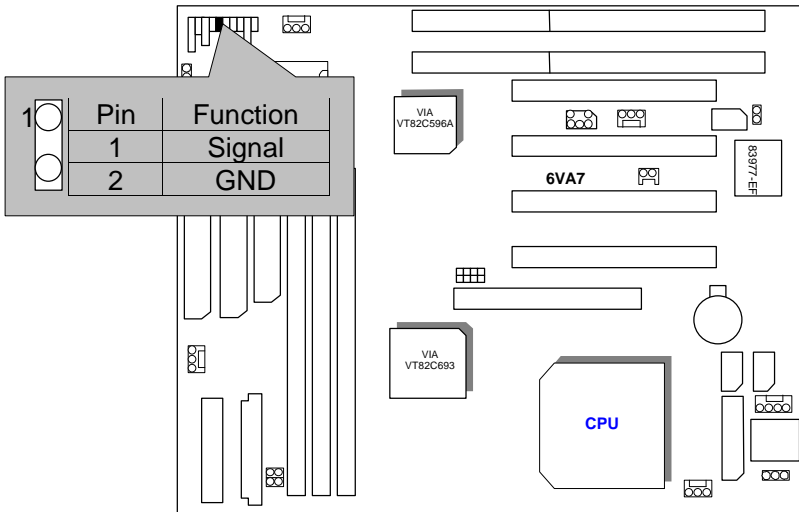
SPK : Speaker Connector



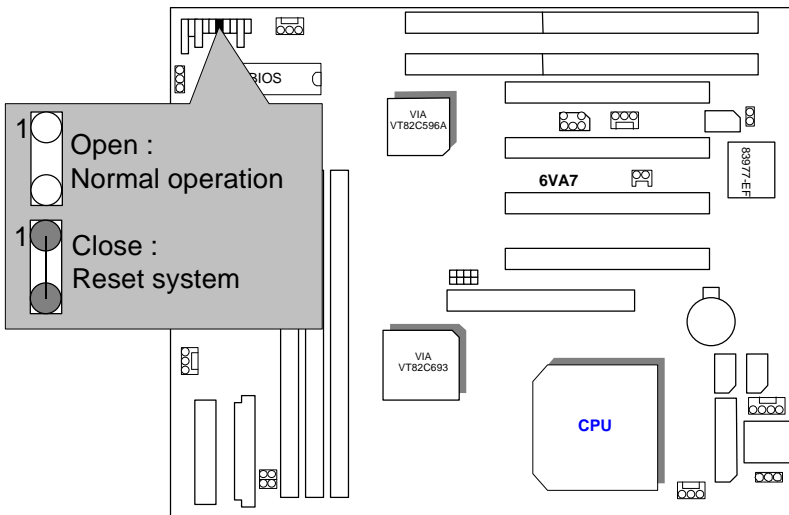
TD : Turbo LED Connector



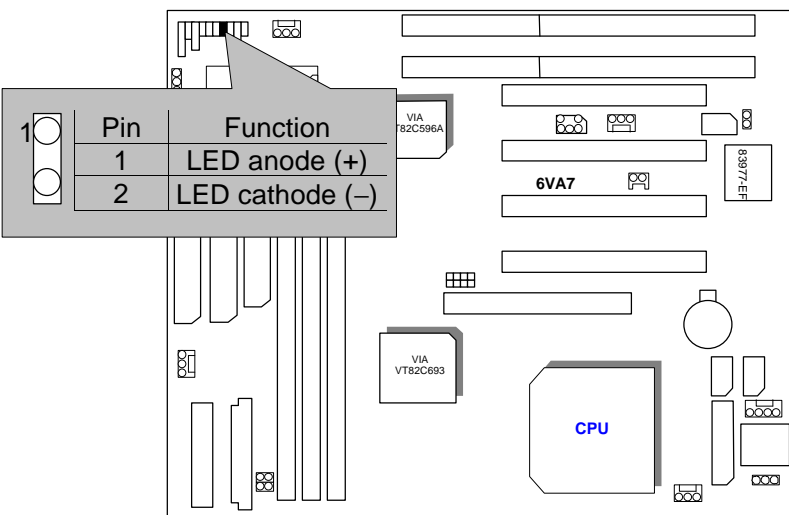
TB : Turbo Switch Connector



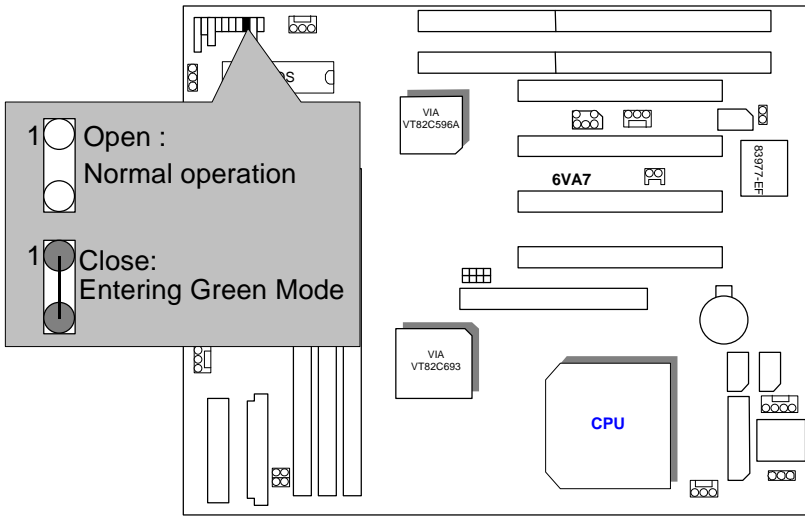
RST : Reset Switch



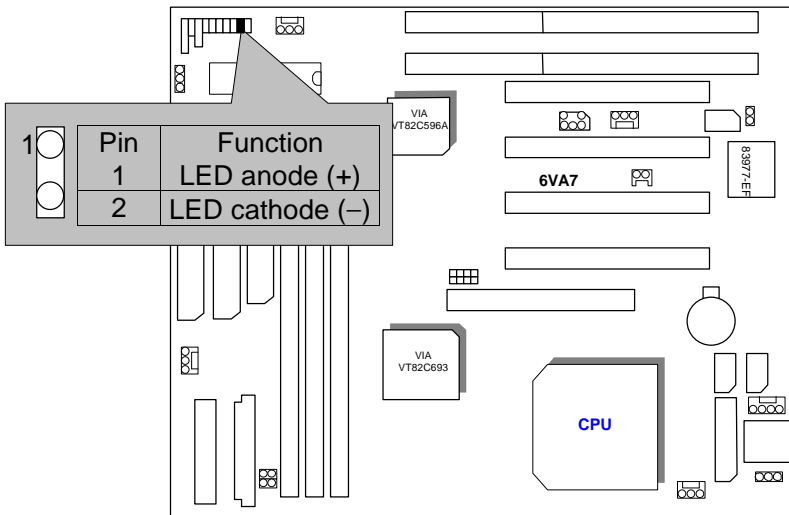
GD : Green Function LED



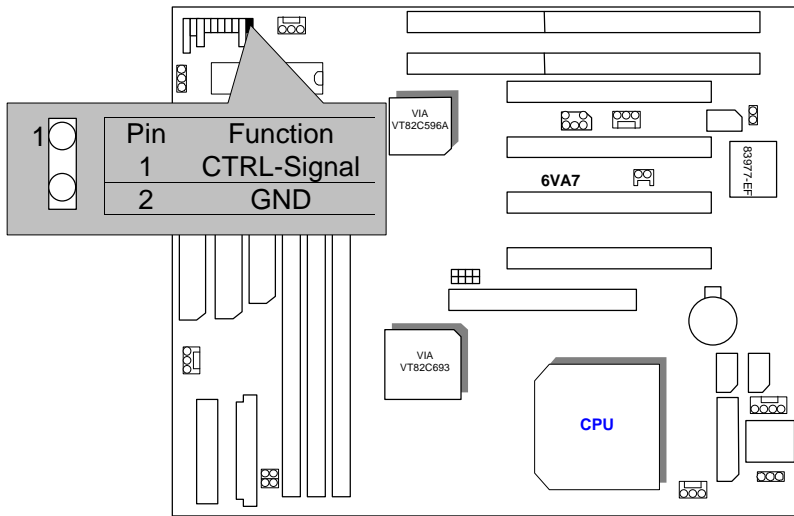
GN : Green Function Switch



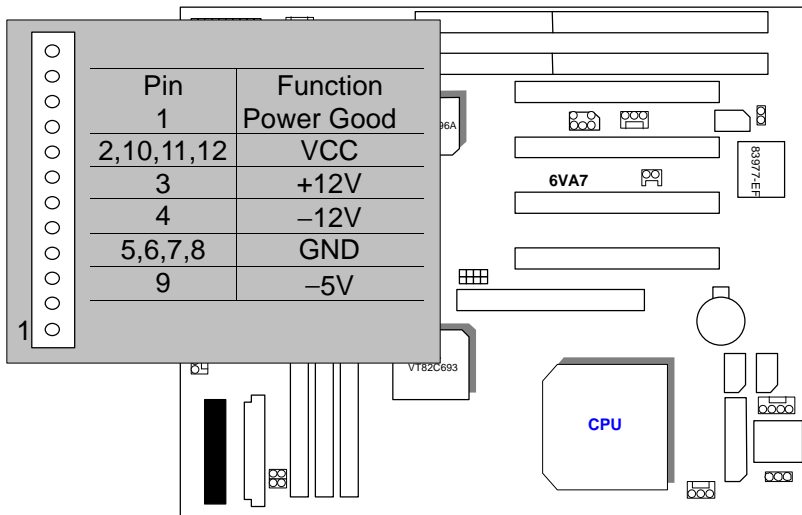
HD : IDE Hard Disk Active LED



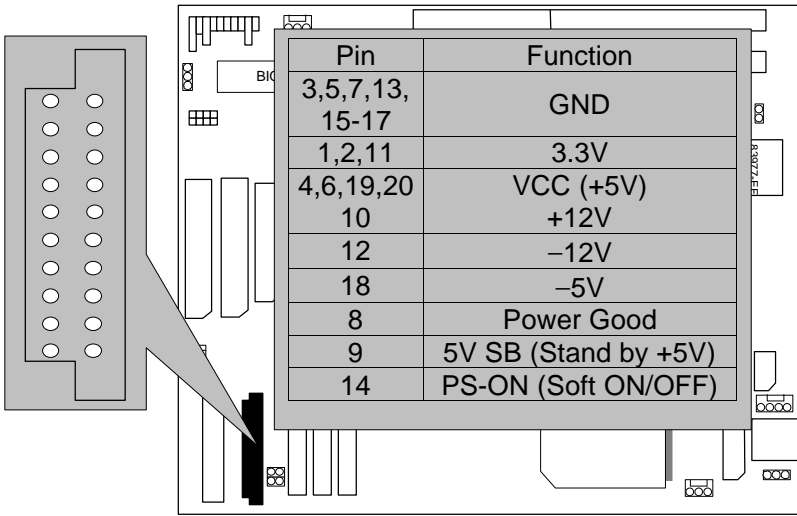
Soft PWR : Soft Power Connector



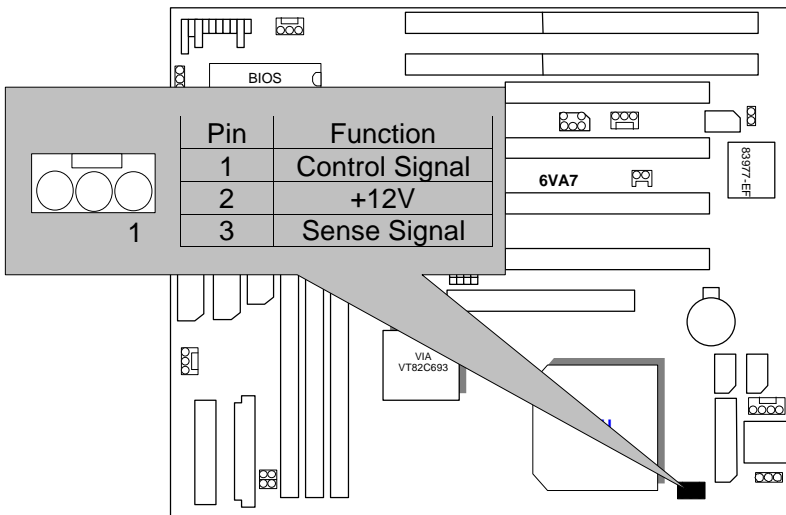
POWER : P8&P9 Power Connector



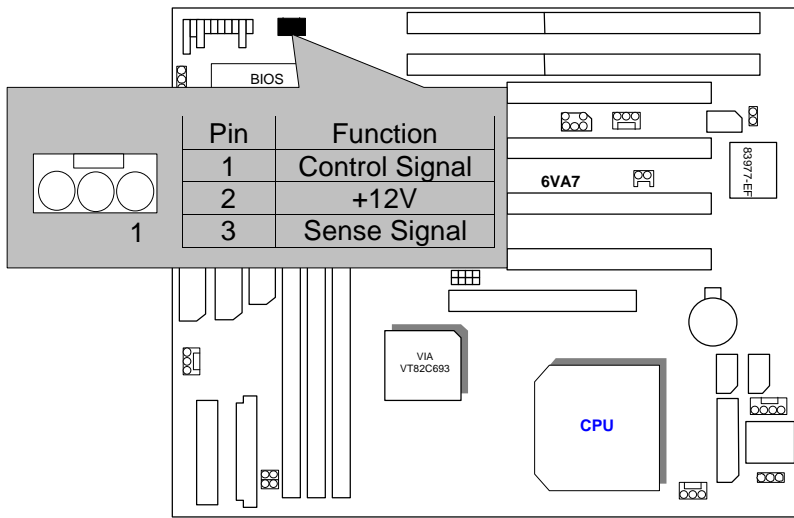
ATX POWER : ATX POWER Connector



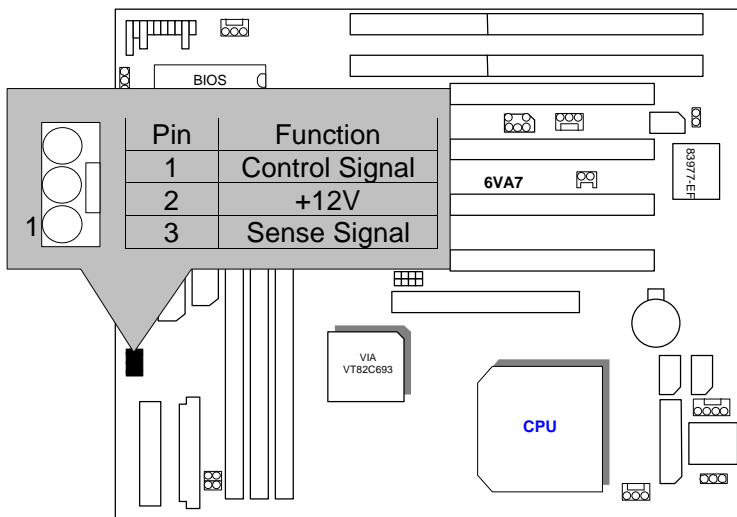
CPU FAN : CPU Cooling Fan Power Connector



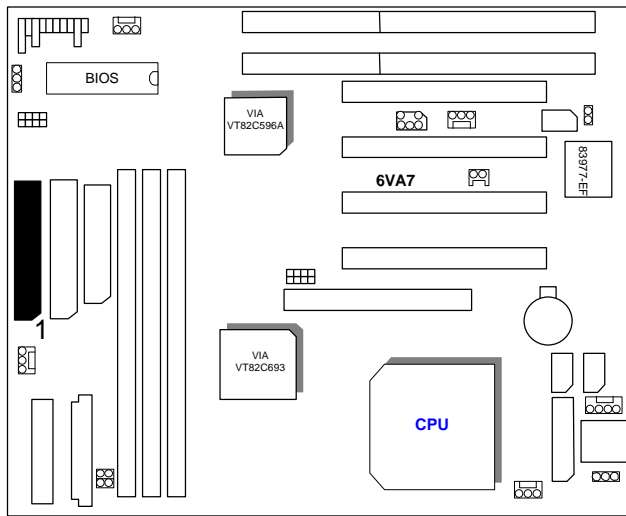
SYSTEM FAN : SYSTEM Fan Power Connector



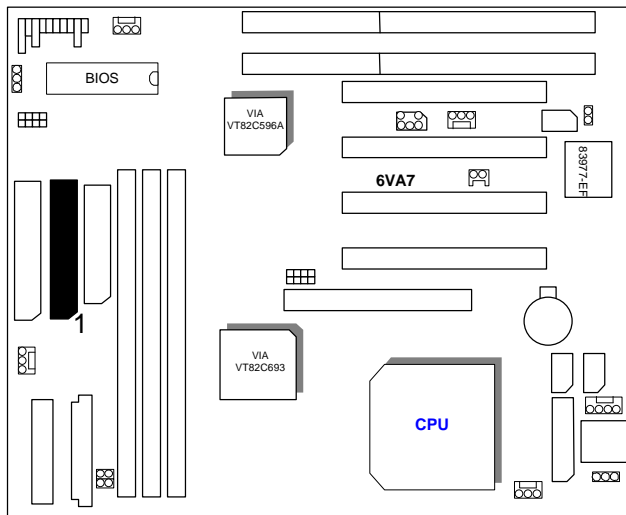
POWER FAN : POWER Fan Connector



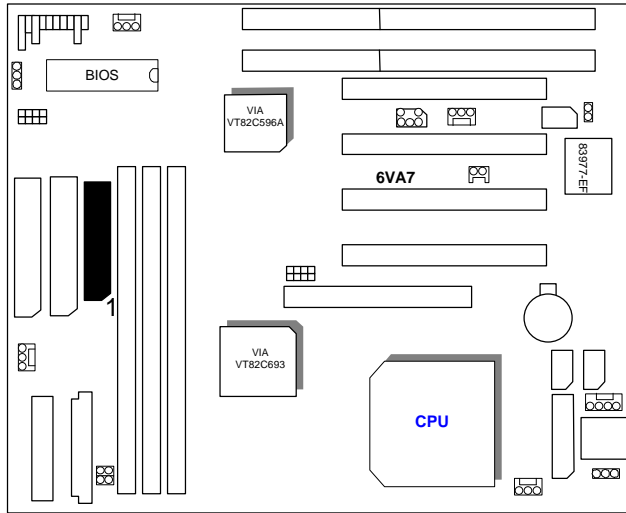
IDE1: Primary IDE port



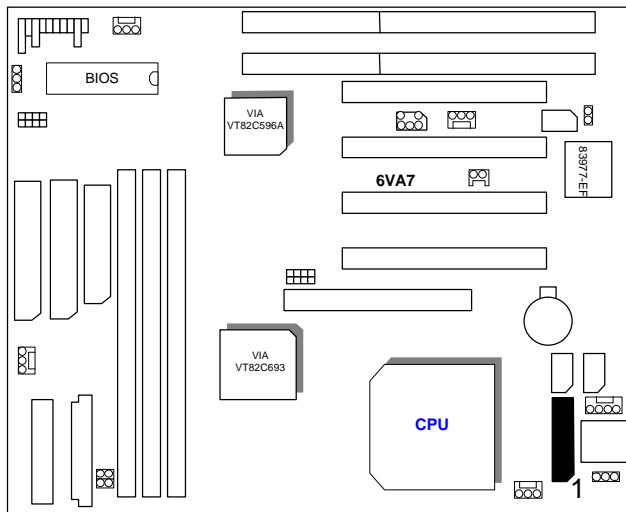
IDE2: Secondary IDE port



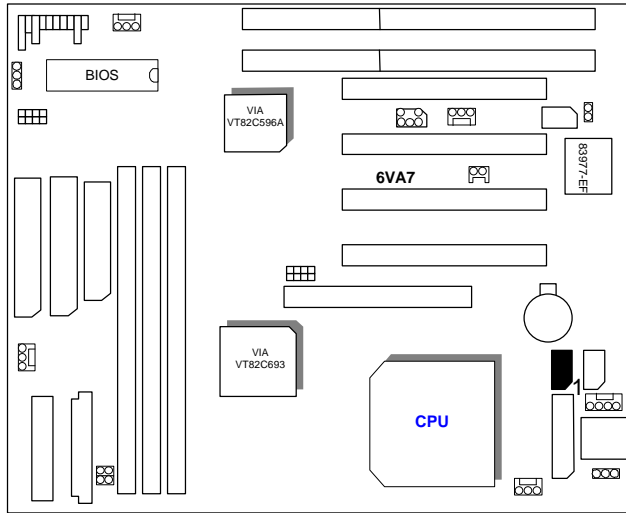
FLOPPY : FLOPPY PORT



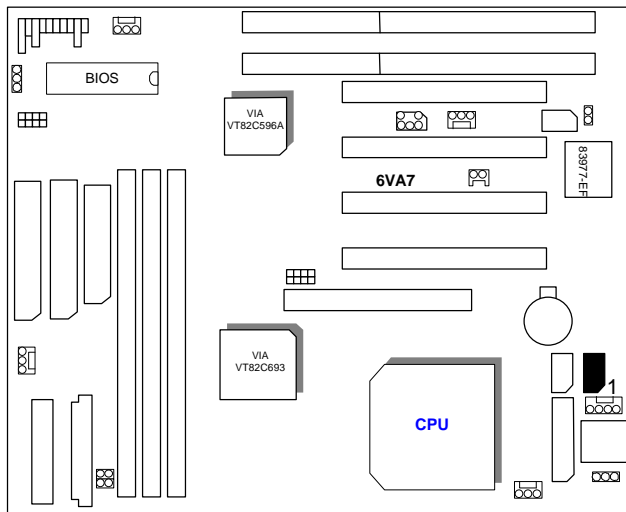
LPT : LPT PORT



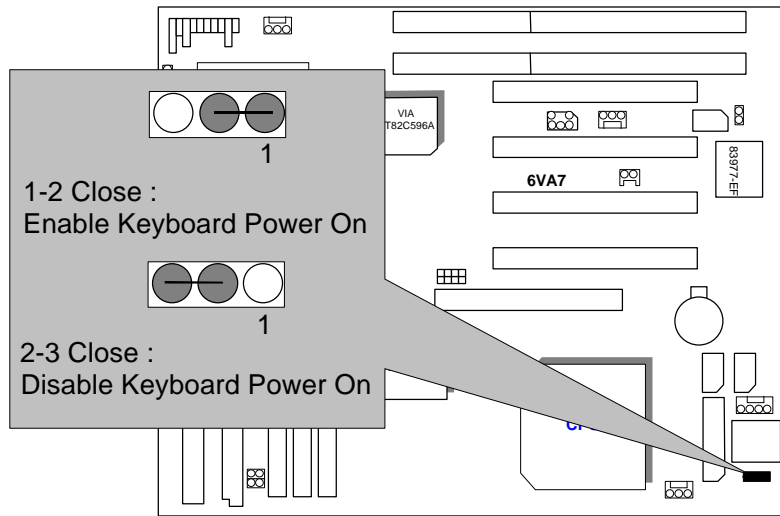
COMB : COM B PORT



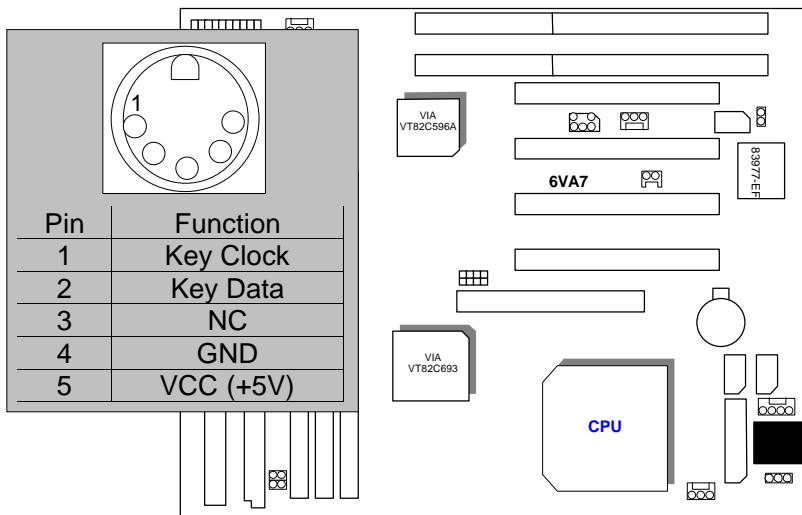
COMA : COM A PORT



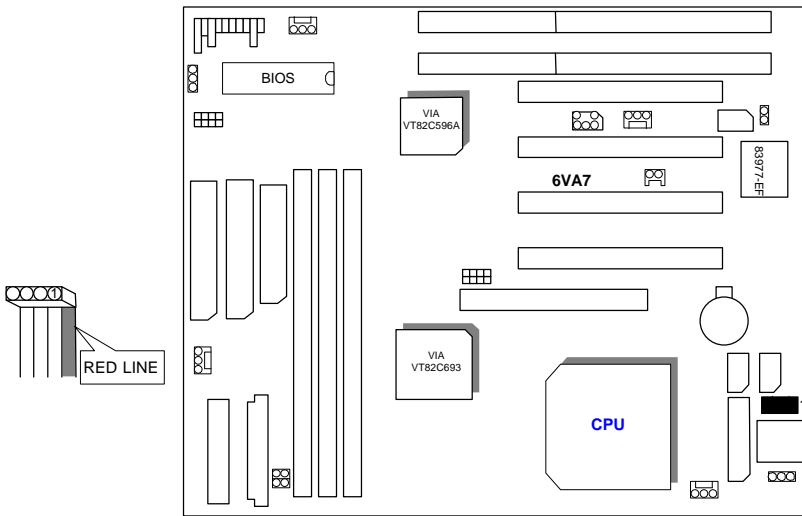
JP1 : Keyboard Power On (for ATX Power Supply only)



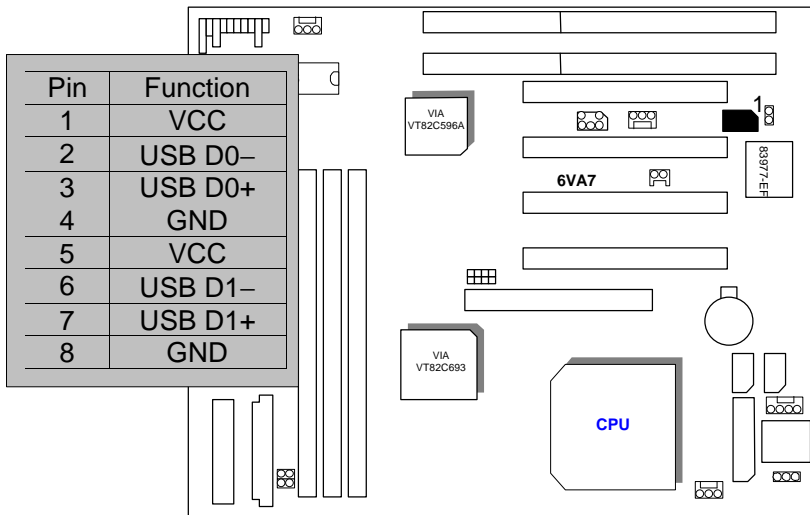
K.B : Keyboard Connector



JP3 : PS/2 MOUSE

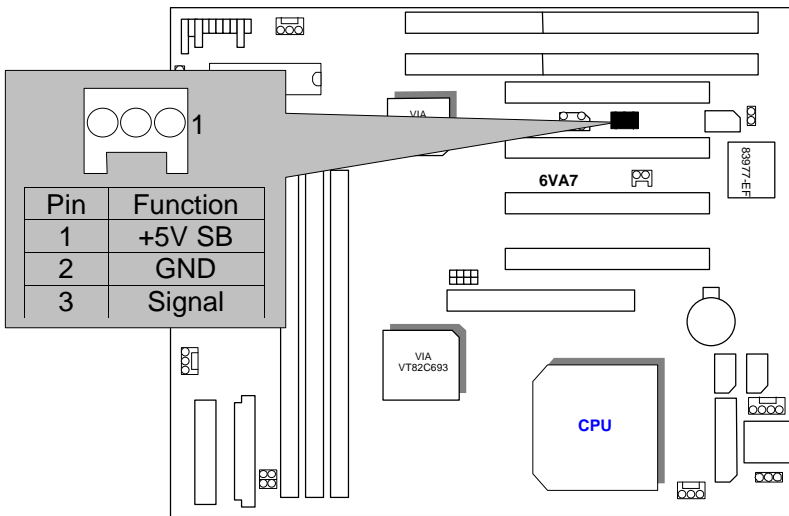


USB : USB Port

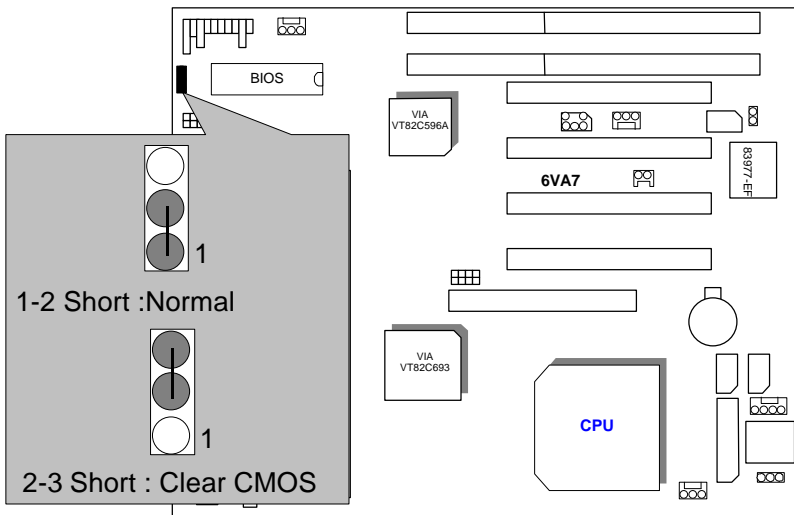


J7 : Wake on Lan

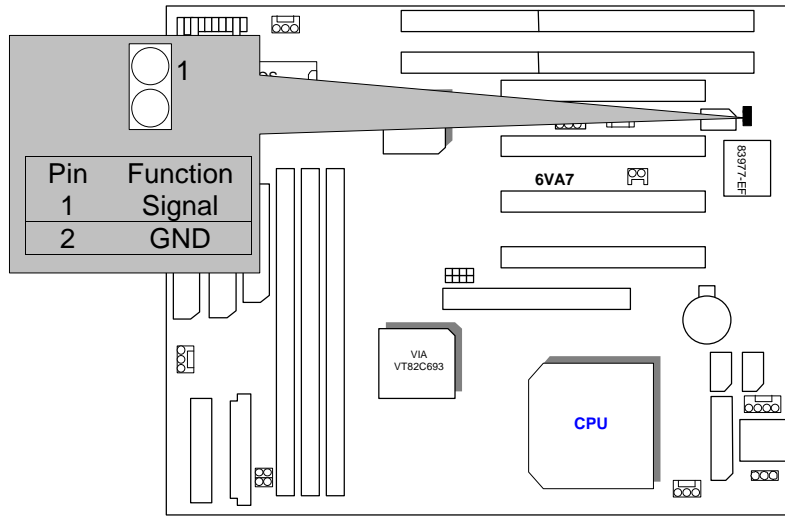
(for ATX Power Supply only)



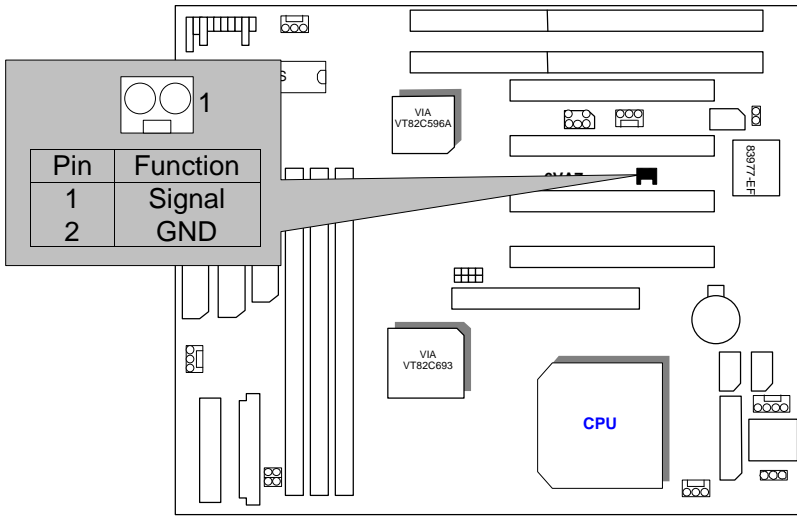
JP10 : CLEAR CMOS



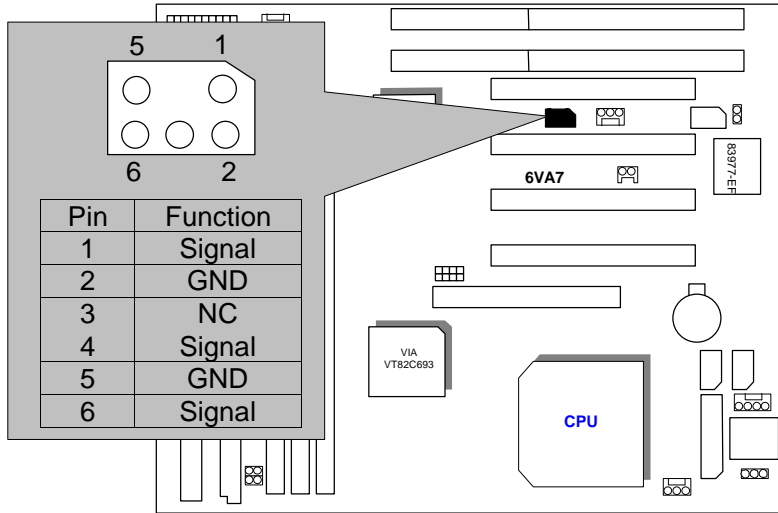
JP9 : CASE OPEN (Optional)



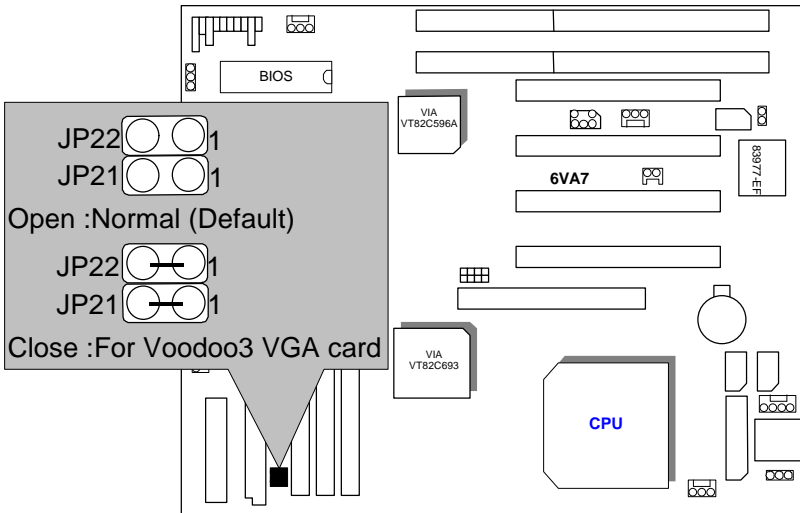
JP7 : Internal Modem Card Ring PWR On



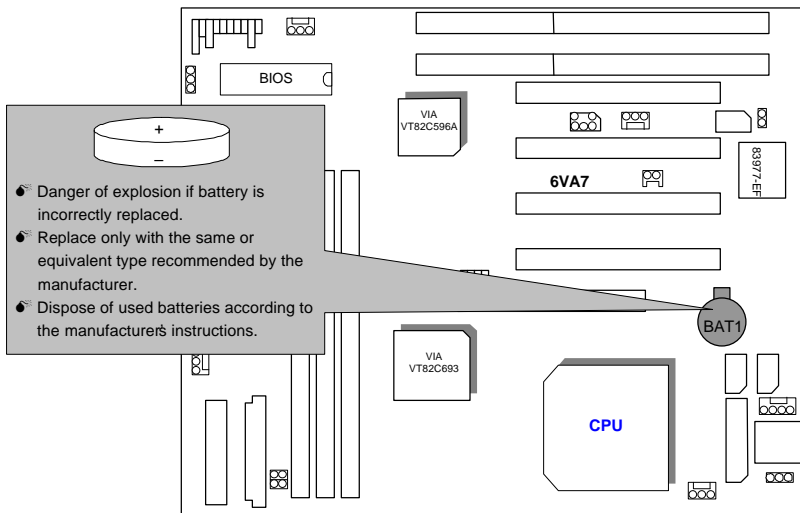
SB-LINK : For PCI Audio / Sound Card use only
(Creative PCI Sound Card Support)



JP21 & JP22
(This function is support in PCB version 1.2 and above)



BAT1 : For Battery



III. Top Performance Test Setting:

The following performance data list is the testing results of some popular benchmark testing programs.

Users have to modify the value for each item in chipset features as follow

```

ROM PCI/ISA BIOS (2A69KG0F)
CHIPSET FEATURES SETUP
AWARD SOFTWARE, INC.

Bank 0/1 DRAM Timing      : SDRAM 10ns
Bank 2/3 DRAM Timing      : SDRAM 10ns
Bank 4/5 DRAM Timing      : SDRAM 10ns
SDRAM Cycle Length        : 2
DRAM Clock                 : Host CLK
Memory Hole At 15M-16M    : Disabled
Read Around write         : Disabled
Concurrent PCI/Host       : Disabled
Video RAM Cacheable       : Enabled
AGP Aperture Size         : 64M
Power LED in Suspend      : BLINKING
Spread Spectrum           : Disabled
Slow Down CPU Duty Cycle  : Normal
Shutdown Temp.(°C/°F)     : 75/167
**Temp. Select (°C/°F)
CPU :70/158                **
**Temperature Alarm**
CPU :No
**Fan Fail Alarm**
CPU:No POWER :No PANEL:No

Reset Case Open Status    : No
Case Opened               : No
**Current Temp.(°C/°F)**
CPU :
**Current Fan Speed (RPM)**
CPU: POWER :0 PANEL: 0
**Current Voltage (V)**
UCORE : 2.04 VGTL : 1.48 UCC3: 3.50
+ 5V: 5.05 +12V: 11.79 -12V:- 11.95
- 5V:- 61.98 UBAT: 3.08 5VSB: 5.05

ESC : Quit          ↑↓↓ : Select Item
F1  : Help          PU/PD/+/- : Modify
F5  : Old Values   (Shift)F2 : Color
F6  : Load BIOS Defaults
F7  : LOAD PERFORMANCE DEFAULTS

```

for top performance setting.

These data are just referred by users, and there is no responsibility for different testing data values gotten by users. (The different Hardware & Software configuration will result in different benchmark testing results.)

- CPU Intel Celeron™ Socket 370 Processor
- DRAM (128x1)MB SDRAM (SEC KM48S8030BT-GH810)
- CACHE SIZE 128 KB included in CPU
- DISPLAY GA-630 AGP Display Card (16MB SGRAM)
- STORAGE Onboard IDE (Seagate ST34520A)
- O.S. Windows NT™4.0 (SP4)
- DRIVER Display Driver at 1024 x 768 x 64k colors x 75Hz.
VIA Bus Master IDE Driver 2.3.15

Processor	Intel Celeron™ Socket 370	
	366MHz(66x5.5)	433MHz(66x6.5)
Winbench99		
CPU mark32	580	622
FPU Winmark	1970	2320
Business Disk	4160	4210
Hi-End Disk	9970	10200
Business Graphics	157	172
Hi-End Graphics	313	351
Winstone99		
Business	24.3	25.9
Hi-End	21.6	23.5