

6ZMM

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(dependent on the specification of keyboards), you can power on your system by entering password from the Keyboard after setting the "Keyboard power on" jumper and password in CMOS Setup.
3. **Support Modem Ring-On.** (Include internal Modem and external modem on COM A and COM B)
4. **Support Wake-up On LAN.** (Your ATX power supply must support larger than 720 mA 5V Stand-By current)
5. **ATI RAGE PRO AGP Display Onboard.** (8M SDRAM)
6. **YAMAHA PCI Sound Onboard.**
7. **Support STR Function (Optional).**

For Intel Pentium® II / III / Celeron™ Processor MAINBOARD

R-14-02-090514

REV. 1.4 Second Edition

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

Third-party brands and names are the property of their respective owners.

May 14, 1998 Taipei, Taiwan

I. Quick Installation Guide :

CPU SPEED SETUP

The default system bus speed is set 66/100MHz (**SW2**). The user can change the DIP SWITCH (**SW1**) selection to set up the CPU speed for 233 - 650MHz processor.

⚠ The CPU speed must match with the frequency RATIO. It will cause system hanging up if the frequency RATIO is higher than that of CPU.

SW1:

FREQ. RATIO	DIP SWITCH			
	1	2	3	4
X 3	ON	OFF	ON	ON
X 3.5	OFF	OFF	ON	ON
X 4	ON	ON	OFF	ON
X 4.5	OFF	ON	OFF	ON
X 5	ON	OFF	OFF	ON
X 5.5	OFF	OFF	OFF	ON
X 6	ON	ON	ON	OFF
X 6.5	OFF	ON	ON	OFF
X 7	ON	OFF	ON	OFF
X 7.5	OFF	OFF	ON	OFF
X 8	ON	ON	OFF	OFF
X 8.5	OFF	ON	OFF	OFF
X 9	ON	OFF	OFF	OFF
X 9.5	OFF	OFF	OFF	OFF

Set System Bus Speed

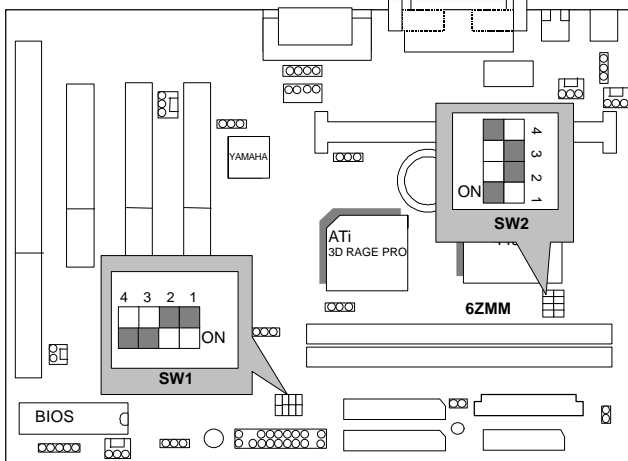
SW2:

CPU	AGP	PCI	1	2	3	4
66	66	33.4	ON	OFF	OFF	ON
75	75	37.5	ON	ON	OFF	ON
83	83	41.6	ON	OFF	ON	ON
100	66	33.4	OFF	OFF	OFF	OFF
112	75	37.5	OFF	ON	OFF	OFF
133	89	33.3	OFF	OFF	ON	OFF

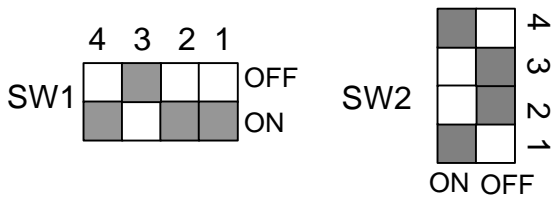
★ **Note:** We don't recommend you to setup your system speed to 75, 83, 112 or 133MHz because these frequencies are not the standard specifications for CPU, Chipset and most of the peripherals. Whether your system can run under 75, 83, 112 or 133MHz properly will depend on your hardware configurations: CPU, SDRAM, Cards, etc.

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

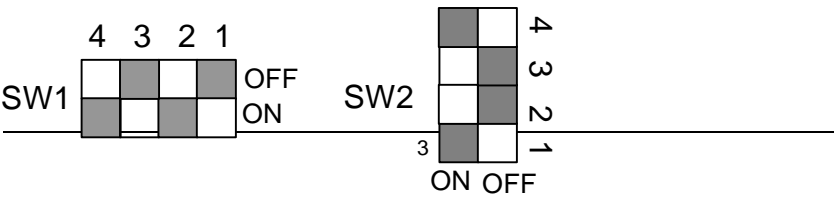
1. Pentium® II / Celeron 233 MHz / 66MHz FSB



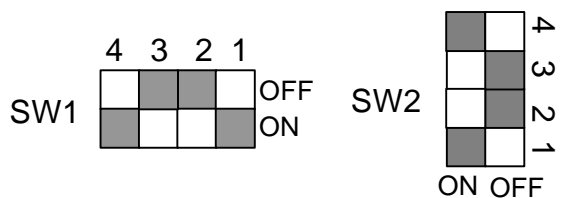
2. Pentium® II / Celeron 266MHz / 66MHz FSB



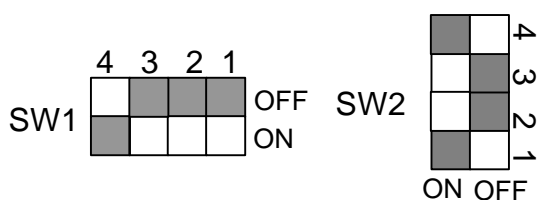
3. Pentium® II / Celeron 300MHz / Celeron 300A MHz / 66MHz FSB



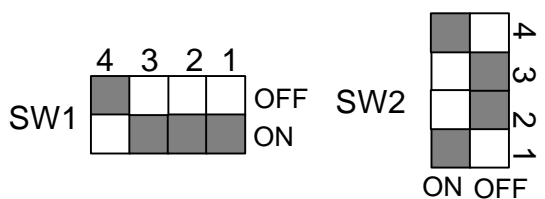
4. Pentium® II / Celeron 333MHz / 66MHz FSB



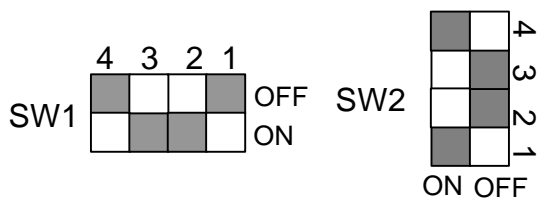
5. Pentium® II / Celeron 366 MHz / 66MHz FSB



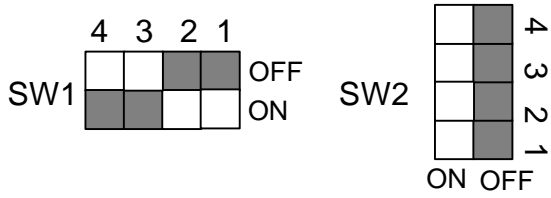
6. Pentium® II / Celeron 400 MHz / 66MHz FSB



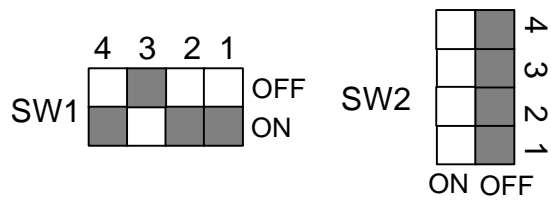
7. Pentium® II / Celeron 433 MHz / 66MHz FSB



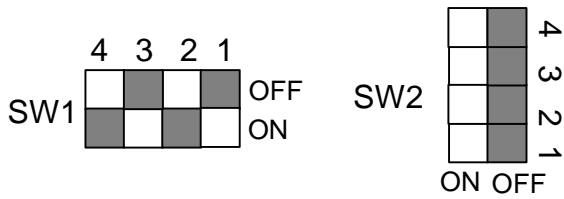
8. Pentium® II 350MHz / 100MHz FSB



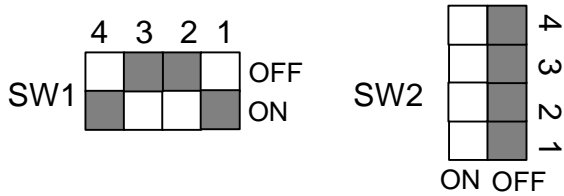
9. Pentium® II 400MHz / 100MHz FSB



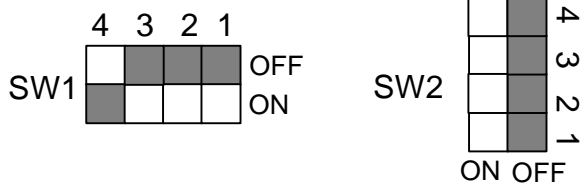
10. Pentium® III 450MHz / 100MHz FSB



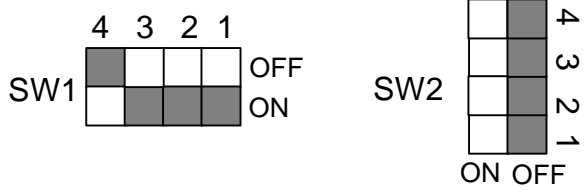
11. Pentium® III 500MHz / 100MHz FSB



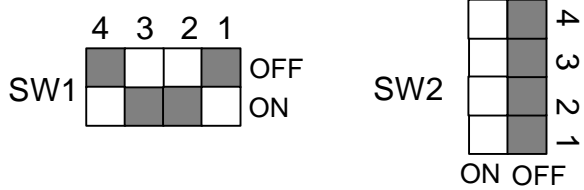
12. Pentium® III 550MHz / 100MHz FSB



13. Pentium® III 600MHz / 100MHz FSB

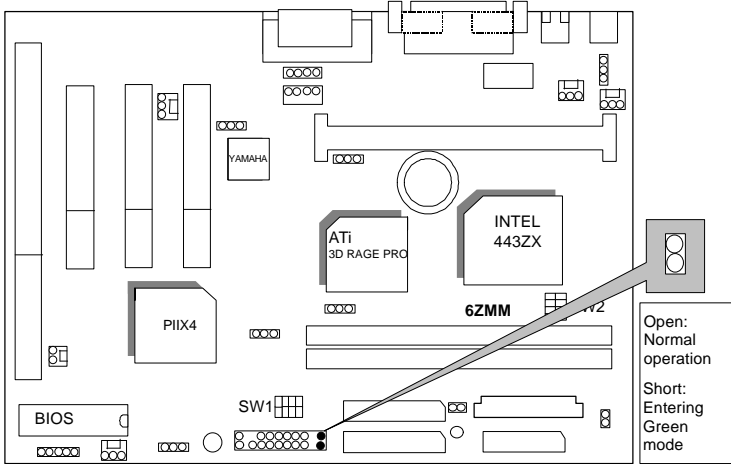


14. Pentium® III 650MHz / 100MHz FSB

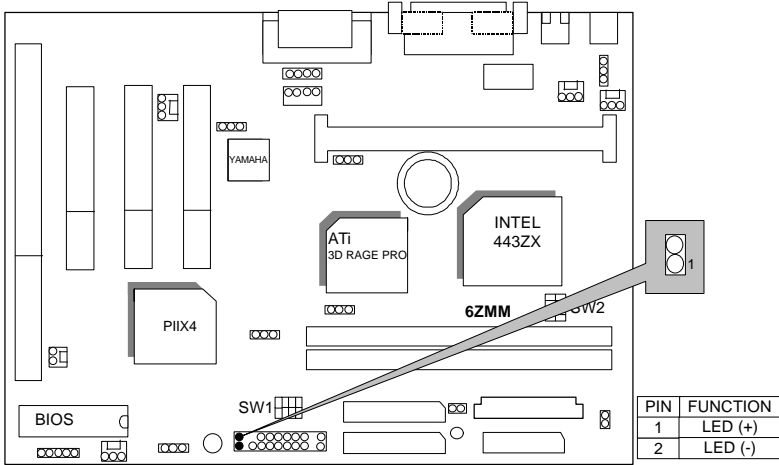


II. Jumper setting :

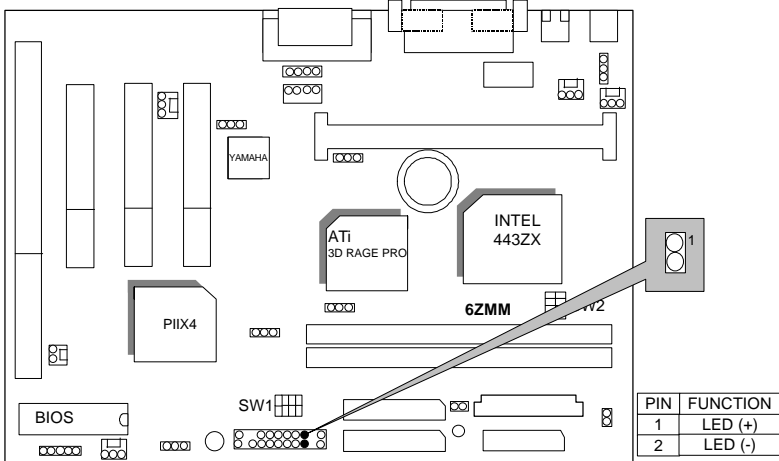
GN : Green Function Switch



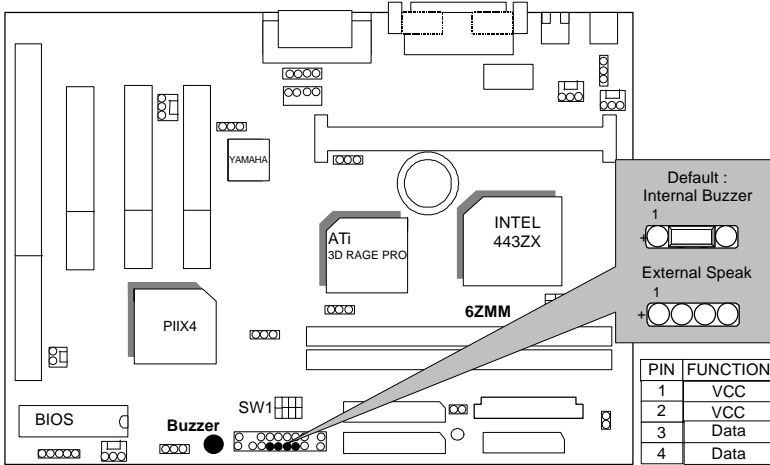
GD : Green Function LED



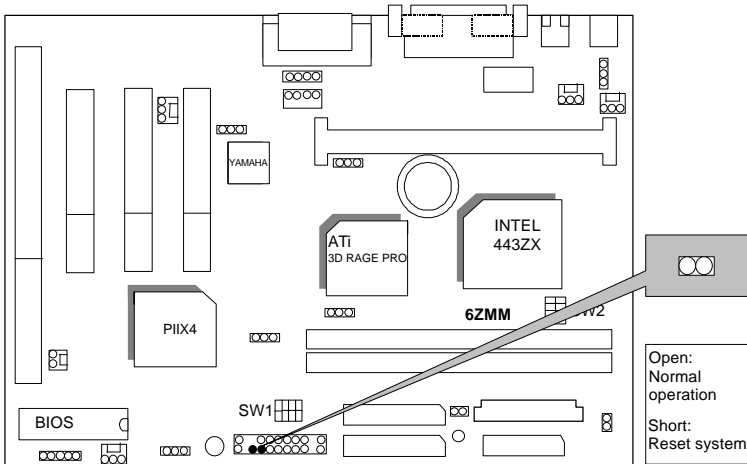
HD : IDE Hard Disk Active LED



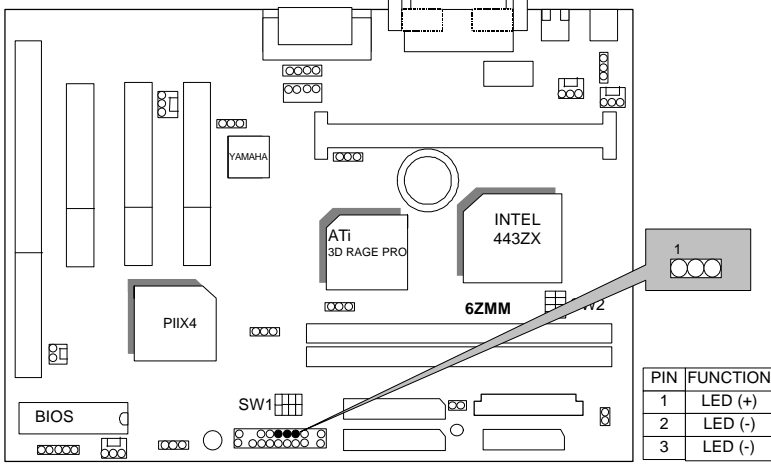
SPKR : External Speaker/ Internal Buzzer Connector



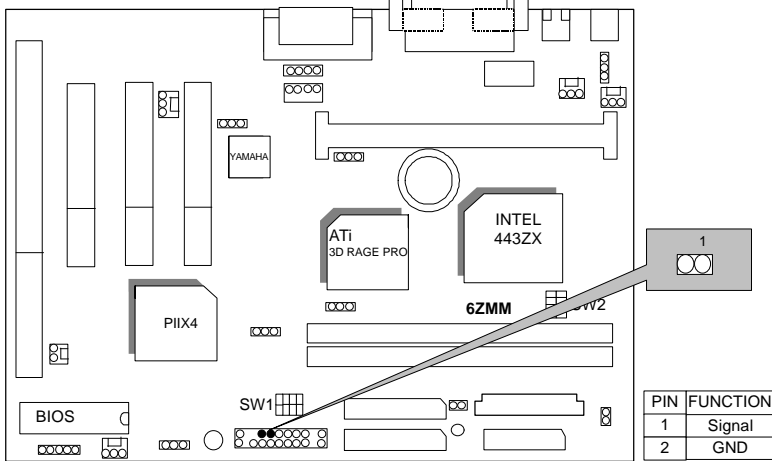
RES : Reset Switch



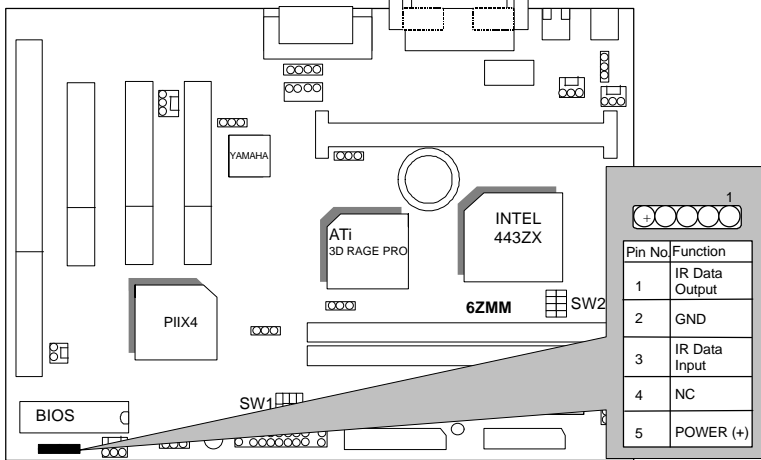
PWR : Power LED Connector (as 3 steps ACPI LED)



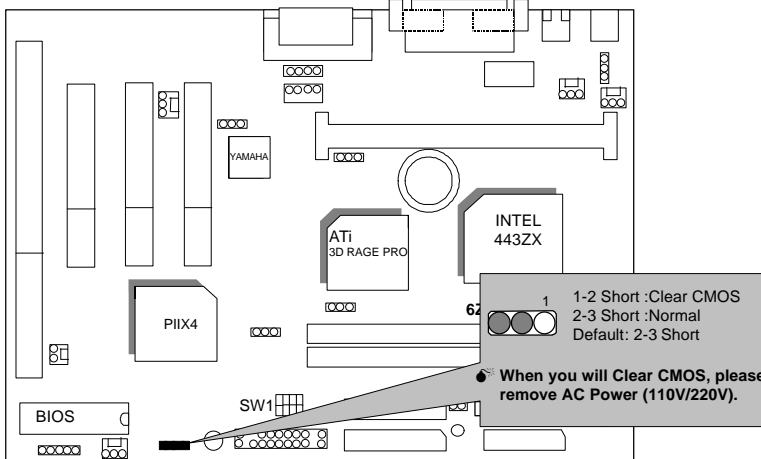
Soft PWR : Soft Power Connector



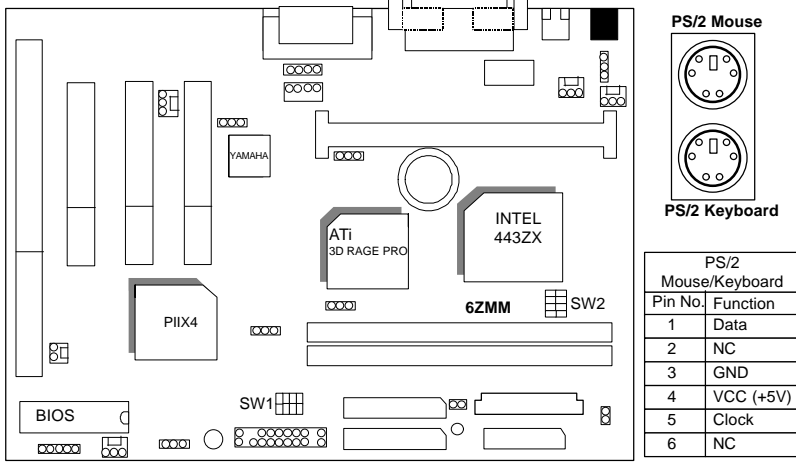
IR : Infrared Connector (Optional)



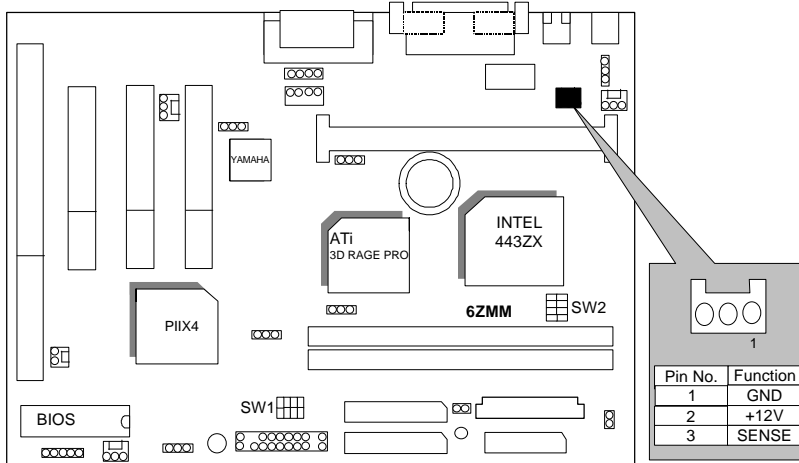
JP14: CLEAR CMOS FUNCTION



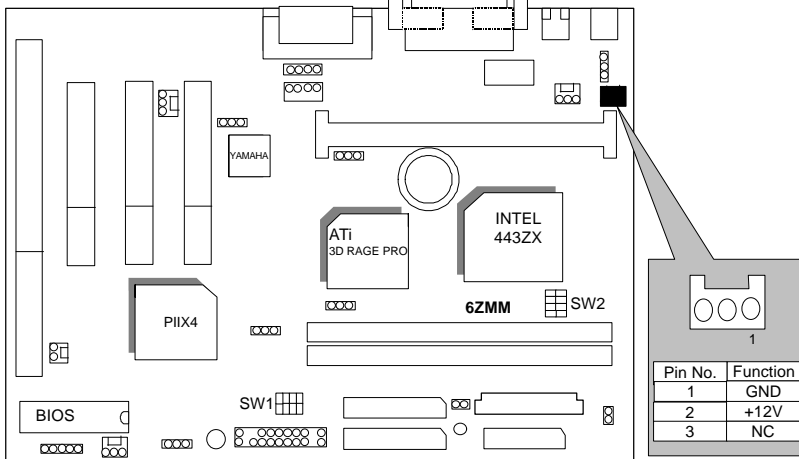
PS/2 Mouse / Keyboard Connector



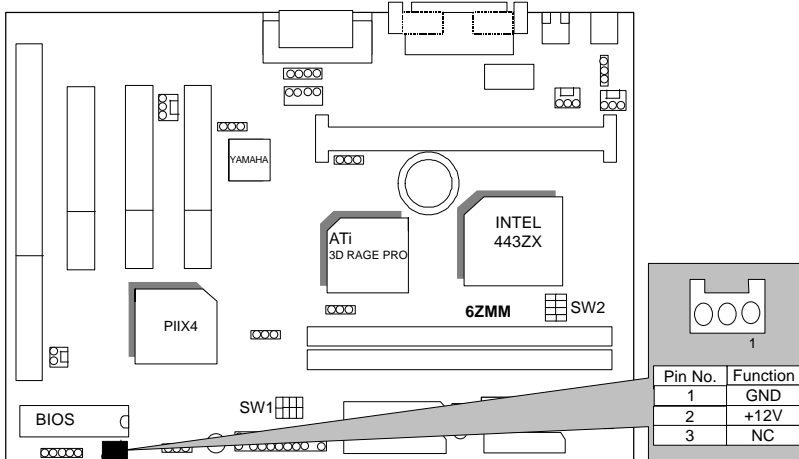
CPU FAN : CPU Cooling Fan Power Connector



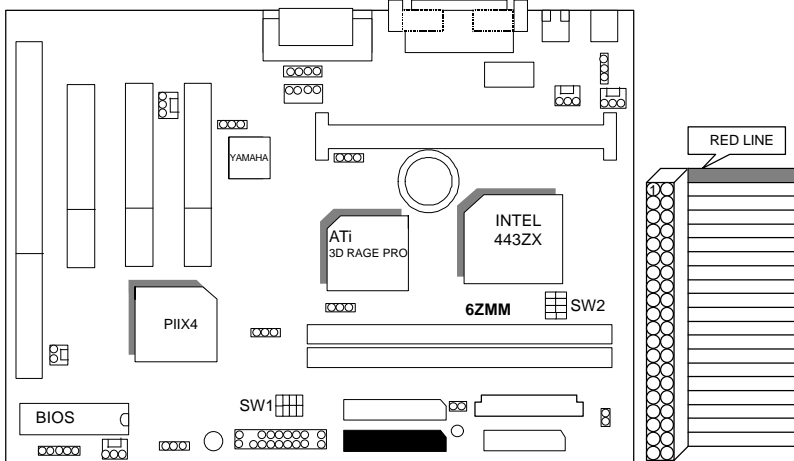
Power FAN : Power Fan Power Connector



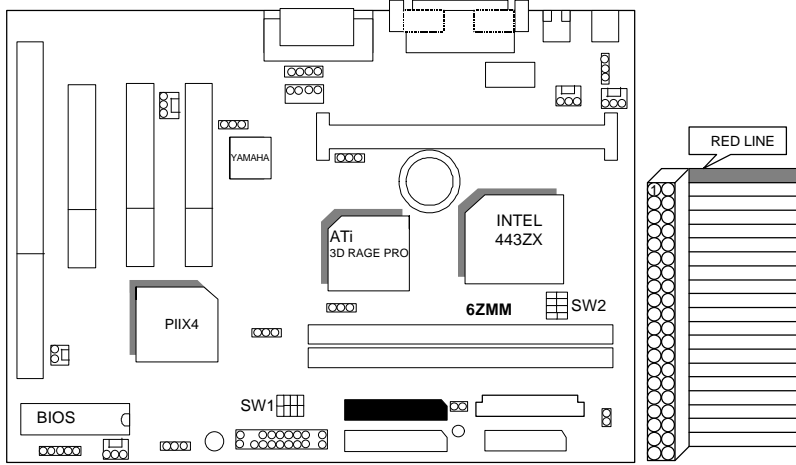
System FAN : System Fan Power Connector



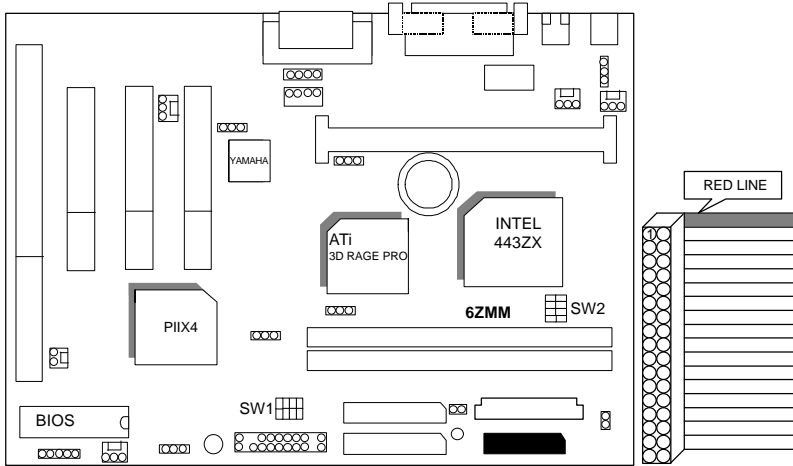
IDE1: For Primary IDE port



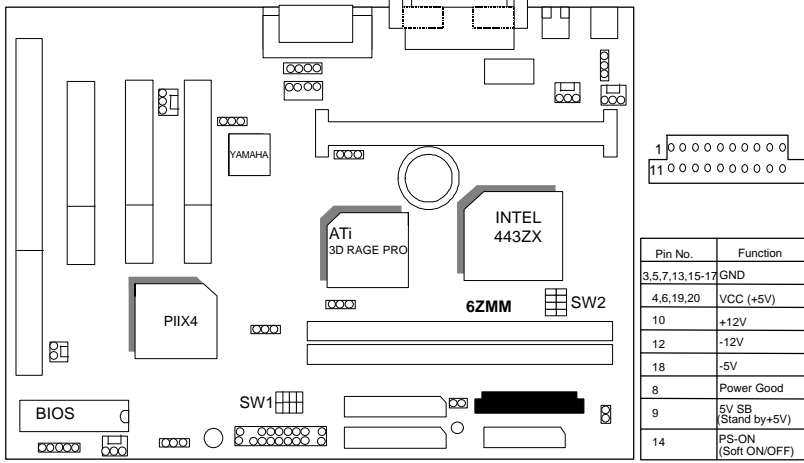
IDE2: For Secondary IDE port



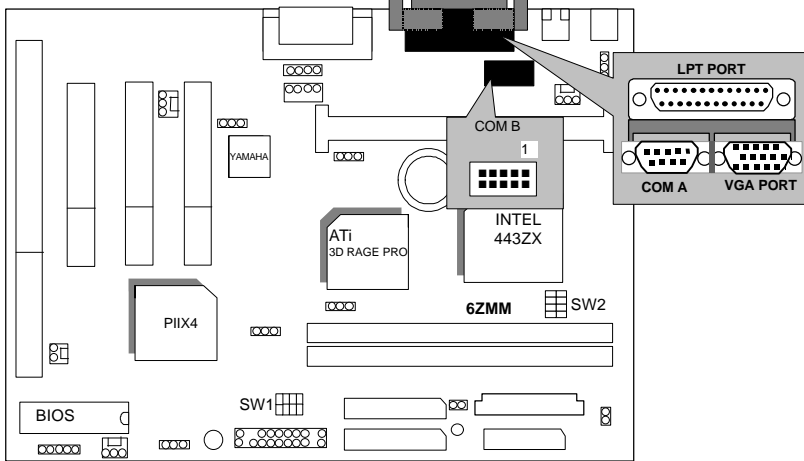
FLOPPY : FLOPPY PORT



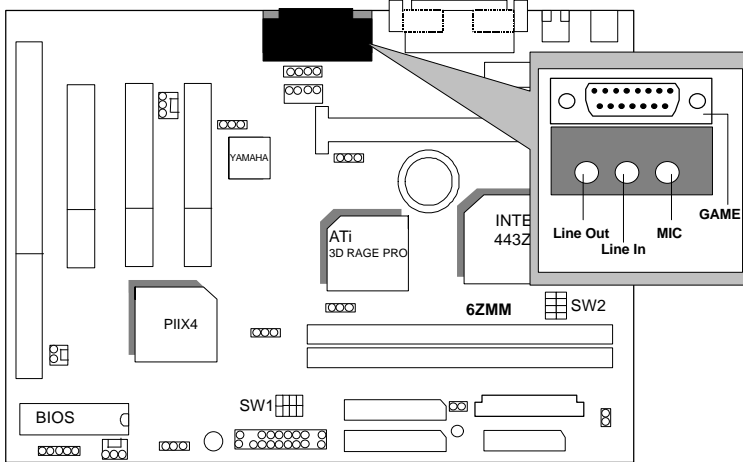
ATX POWER : ATX POWER Connector



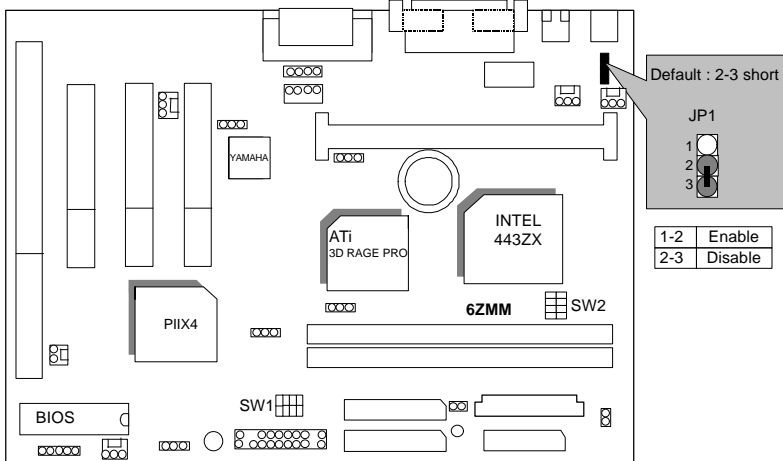
LPT PORT / COM A / COM B / VGA PORT



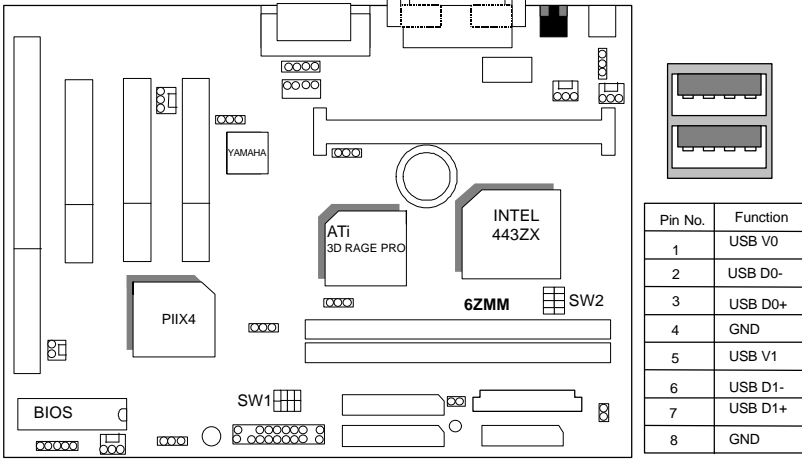
GAME & AUDIO PORT



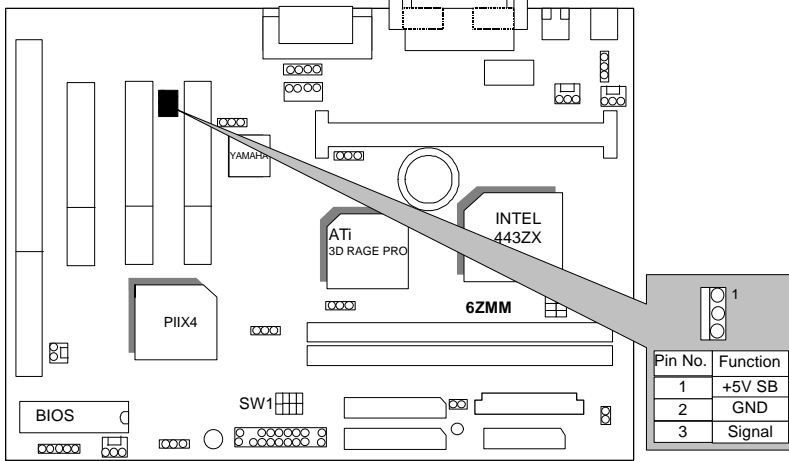
JP1 : Keyboard Power On



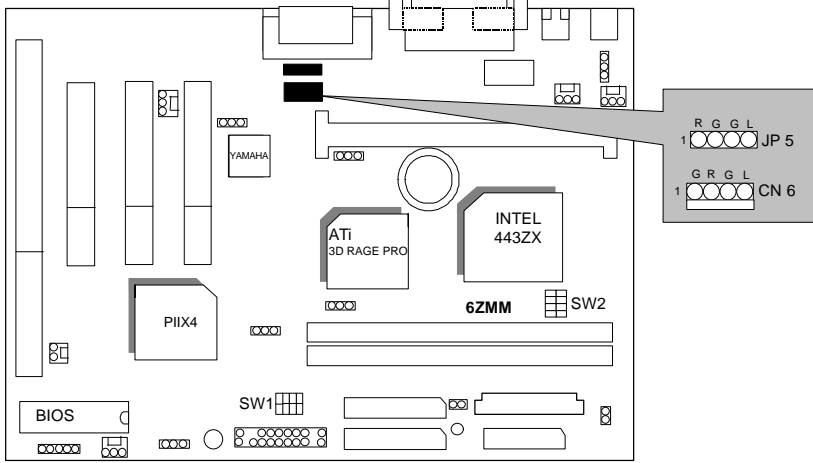
USB: USB Port



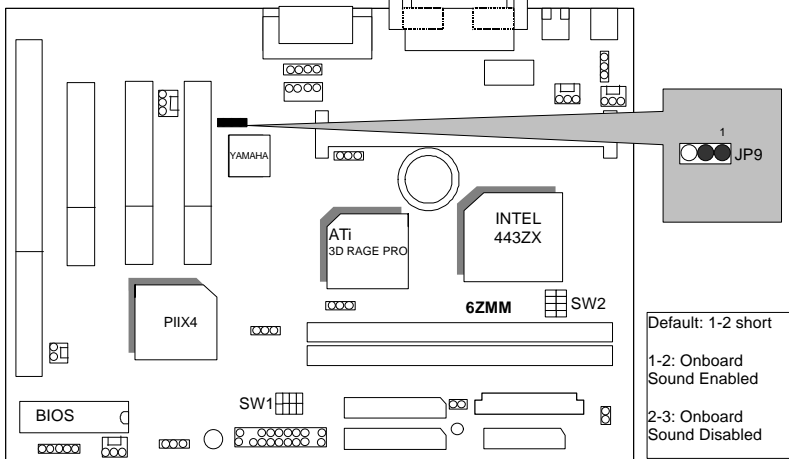
JP7: Wake on LAN



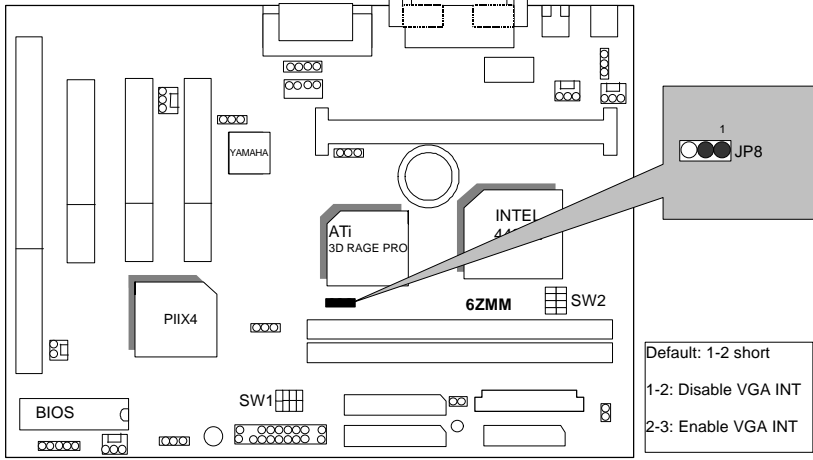
CN6 & JP5: CD Audio Line In



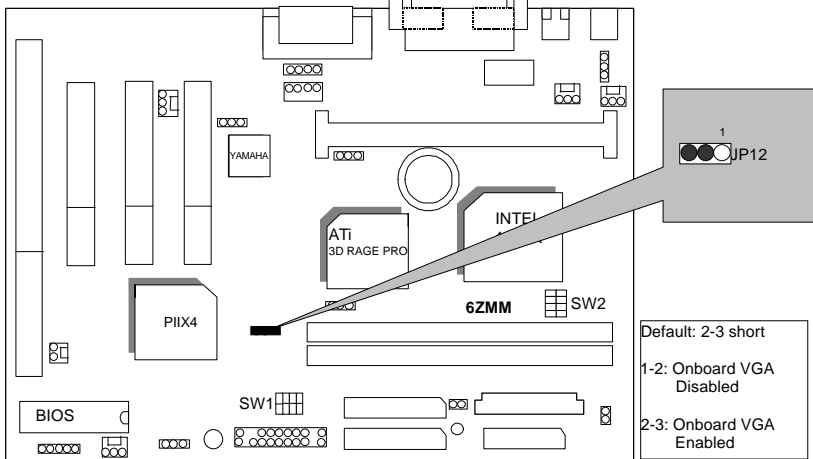
JP9: Onboard Sound Function Selection



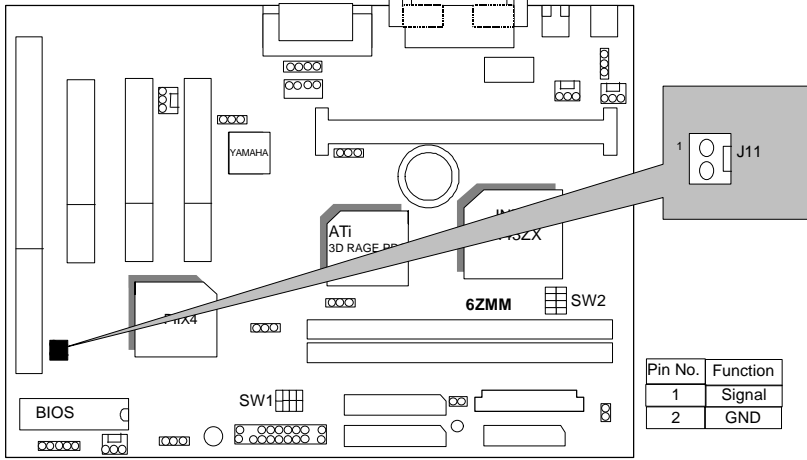
JP8: Onboard VGA Interrupt Function Selection



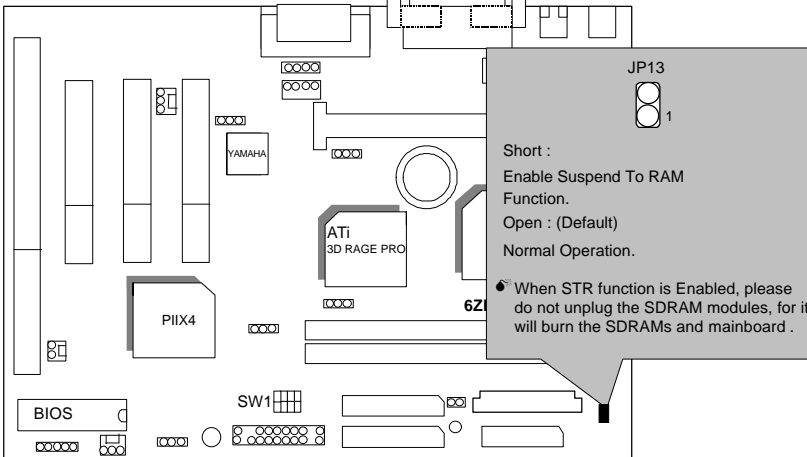
JP12: Onboard VGA Function Selection



J11: Internal Modem Card Ring PWR On

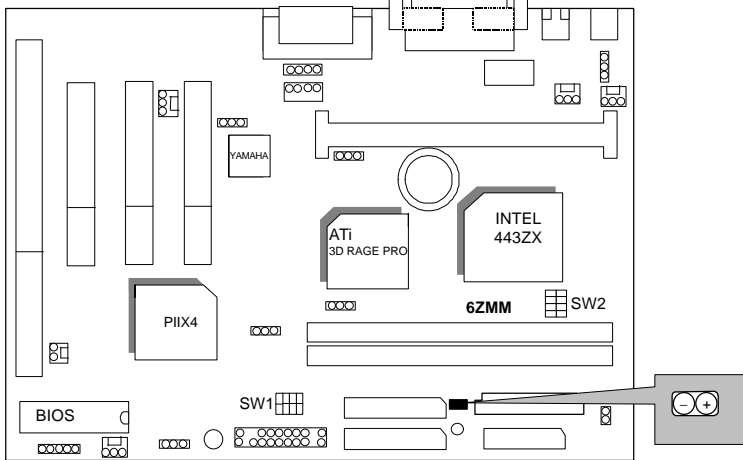


JP13 : Suspend To RAM Function (Optional)

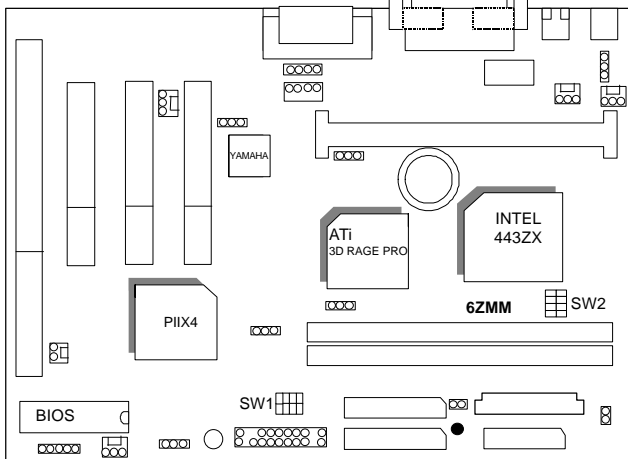


● Support under Windows 98 ACPI O.S.

JP15: STR LED Connector (Optional)

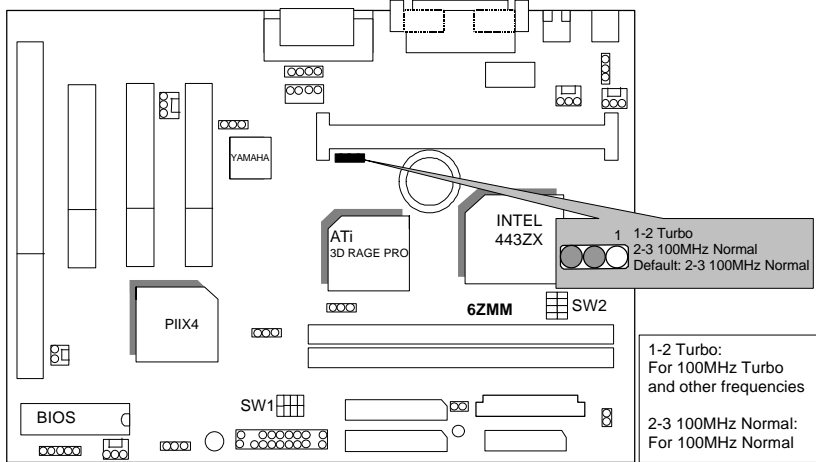


LED 1: DRAM LED (Optional)

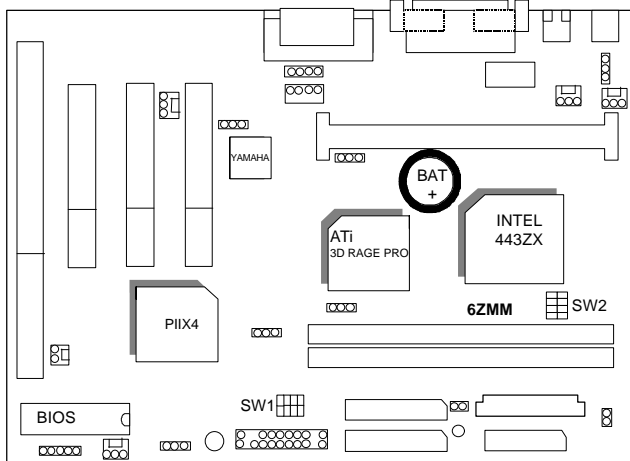


● When RAM LED is on, please do not unplug the SDRAM modules.

JP11: System Acceleration



BAT1: For Battery



- ⚠ Danger of explosion if battery is incorrectly replaced.
- ⚠ Replace only with the same or equivalent type recommended by the manufacturer.
- ♻ Dispose of used batteries according to the manufacturer's instructions.

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 for top performance setting.

```

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

EDO CAS# MA Wait State      : 1
EDO RAS# Wait State        : 1
SDRAM CAS Latency Time     : 2
System BIOS Cacheable     : Enabled
Video BIOS Cacheable      : Enabled
Video RAM Cacheable       : Disabled
16 Bit I/O Recovery Time   : 1
Memory Hole At 15M-16M    : Disabled
Delayed Transaction       : Disabled
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    SYS.:No

Reset Case Open Status    : No
Case Opened              : No

** Current Temp.(°C/°F)**
CPU : 33/91

** Current Fan Speed (RPM)**
CPU:5443    POWER :0    SYS.:0

** Current Voltage (V)**
UCORE :1.95    VGTL : 1.52    UCC3:3.36
+ 5V: 5.08    +12V: 12.52    -12V:-11.86
- 5V:- 5.09    VBAT: 3.26    5USB: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

```

**The above settings have to modify according to different kinds of CPU, SDRAM, and peripherals for your system to work properly.

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 Pentium® II processor
- DRAM (128 x 1) MB SDRAM (SEC KM48S8030BT-GH)
- CACHE SIZE 512 KB included in CPU
- DISPLAY Onboard ATi AGP 3D graphics acceleration chip (8MB SDRAM)
- STORAGE Onboard IDE (Seagate ST34520A)
- O.S. Windows NT™4.0
- DRIVER Display Driver at 1024 x 768 x 64k colors x 75Hz.
TRIONES Bus Master IDE Driver 3.70

Processor	Intel Pentium® II	
	350MHz(100x3.5)	450MHz(100x4.5)
Winbench98		
CPU mark32	909	1130
FPU Winmark	1810	2300
Business Disk	2130	2160
Hi-End Disk	5160	5270
Business Graphics	183	210
Hi-End Graphics	206	246
Winstone98		
Business	33.8	37.6
Hi-End	39.1	43.4

