

6BXE

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 ; " password in CMOS Setup.
3. **Supports 3 steps ACPI LED.**
4. **Support Modem Ring-On. (Include internal Modem and external modem on COM A and COM B)**
5. **Wake-Up on LAN. (on JP7) (The ATX power supply supports larger than 720 mA 5V Stand-By current)**
6. **CPU Over Voltage Protect**

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

R-20-02-090506

REV. 2.0 Second Edition

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. 6 , 1999 Taipei, Taiwan

I. Quick Installation Guide :**CPU SPEED SETUP**

The system bus speed is selectable between 66 / 100 MHz. The user can select the system bus speed and change the DIP SWITCH (**SW**) selection to set up the CPU speed for 233 - 650MHz processor.

ON: O OFF: X

CPU Type	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
Pentium® II 233 MHz (Celeron™ 233MHz)	X	X	O	O	O	X	X	O
Pentium® II 266 MHz (Celeron™ 266MHz)	O	O	X	O	O	X	X	O
Pentium® II 300 MHz (Celeron™ 300MHz)	X	O	X	O	O	X	X	O
Pentium® II 333 MHz (Celeron™ 333MHz)	O	X	X	O	O	X	X	O
Pentium® II 366 MHz (Celeron™ 366MHz)	X	X	X	O	O	X	X	O
Pentium® II 400 MHz (Celeron™ 400MHz)	O	O	O	X	O	X	X	O
Pentium® II 433 MHz (Celeron™ 433MHz)	X	O	O	X	O	X	X	O
Pentium® II 350 MHz	X	X	O	O	X	X	X	X
Pentium® II 400 MHz	O	O	X	O	X	X	X	X
Pentium® III 450 MHz	X	O	X	O	X	X	X	X
Pentium® III 500 MHz	O	X	X	O	X	X	X	X
Pentium® III 550 MHz	X	X	X	O	X	X	X	X
Pentium® III 600 MHz	O	O	O	X	X	X	X	X
Pentium® III 650 MHz	X	O	O	X	X	X	X	X

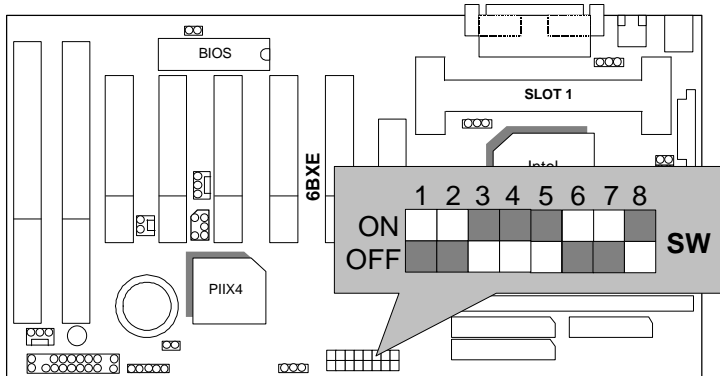
CLK RATIO	SW1	SW2	SW3	SW 4
X3	O	X	O	O
X3.5	X	X	O	O
X4	O	O	X	O
X4.5	X	O	X	O
X5	O	X	X	O
X5.5	X	X	X	O
X6	O	O	O	X
X6.5	X	O	O	X
X 7	O	X	O	X
X 7.5	X	X	O	X
X 8	O	O	X	X
X 8.5	X	O	X	X
X 9	O	X	X	X
X 9.5	X	X	X	X

Main Clock Table				
CLK	SW5	SW6	SW7	SW8
66 MHz	O	X	X	O
75 MHz	O	X	O	O
83 MHz	O	O	X	O
100 MHz	X	X	X	X
112 MHz	X	X	O	X
124 MHz	X	O	O	X
133MHz	X	O	X	X
PCI Run 44.3 MHz				
133 MHz	O	O	O	X
PCI Run 33.3 MHz				

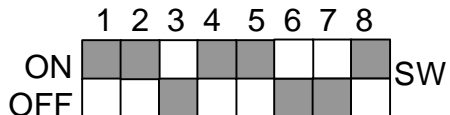
★ **Note:** We don't recommend you to setup your system speed to 75, 83, 112, 124 or 133MHz because these frequencies are not the standard specifications for CPU, Chipset and most of the peripherals. Whether your system can run under 75, 83, 112, 124 or 133MHz properly will depend on your hardware configurations: CPU, SDRAM, Cards, etc.

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

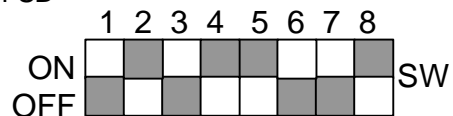
1. Pentium® II / Celeron™ 233 MHz / 66MHz FSB



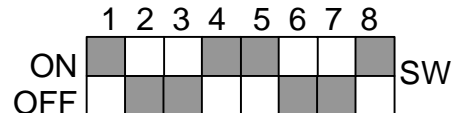
2. Pentium® II / Celeron™ 266MHz / 66MHz FSB



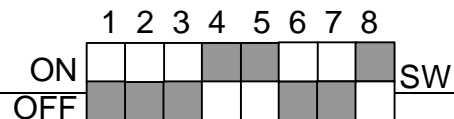
3. Pentium® II / Celeron™ 300MHz / Celeron™ 300A MHz / 66MHz FSB



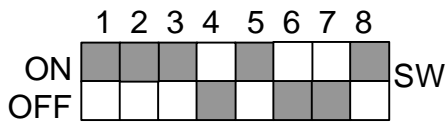
4. Pentium® II / Celeron™ 333MHz / 66MHz FSB



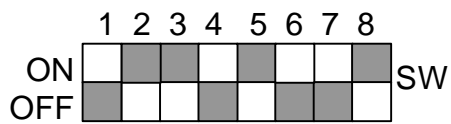
5. Pentium® II / Celeron™ 366 MHz / 66MHz FSB



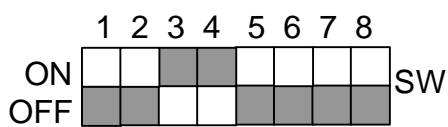
6. Pentium® II / Celeron™ 400 MHz / 66MHz FSB



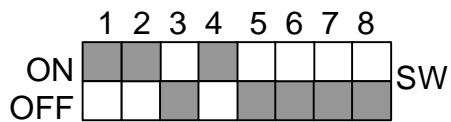
7. Pentium® II / Celeron™ 433 MHz / 66MHz FSB



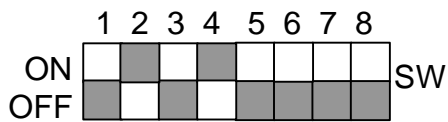
8. Pentium® II 350MHz / 100MHz FSB



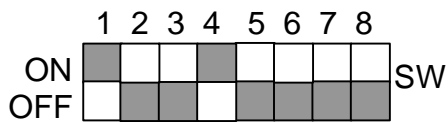
9. Pentium® II 400MHz / 100MHz FSB



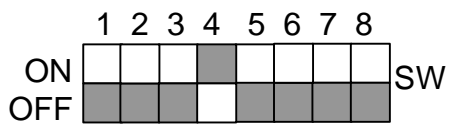
10. Pentium® III 450MHz / 100MHz FSB



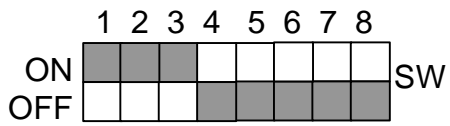
11. Pentium® III 500MHz / 100MHz FSB



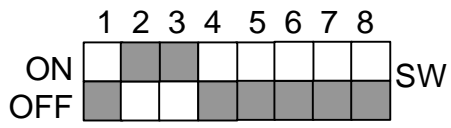
12. Pentium® III 550MHz / 100MHz FSB



13. Pentium® III 600MHz / 100MHz FSB

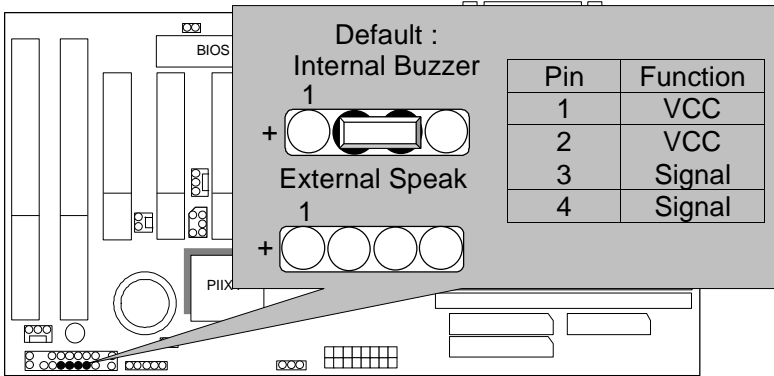


14. Pentium® III 650MHz / 100MHz FSB

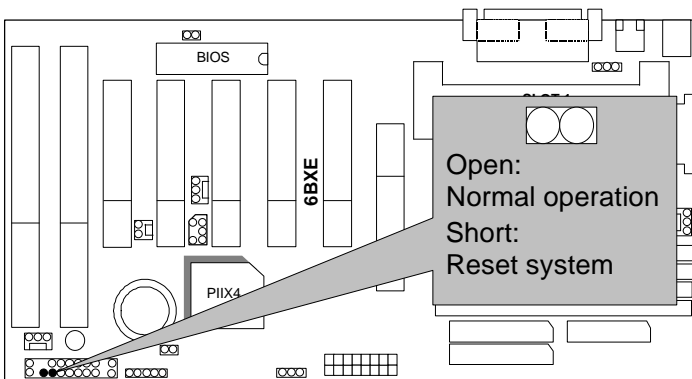


II. Jumper setting :

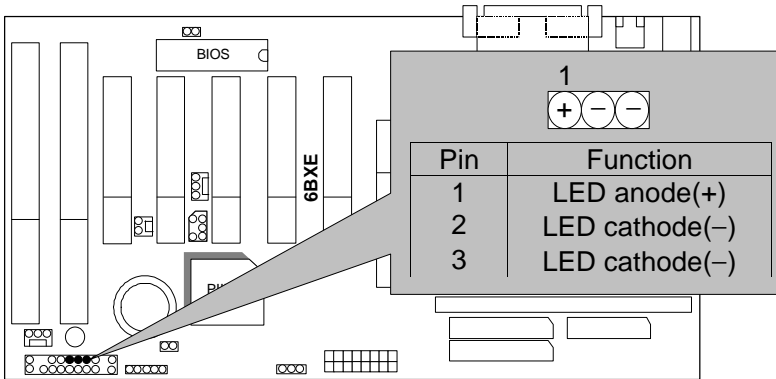
SPK : External Speaker/ Internal Buzzer Connector



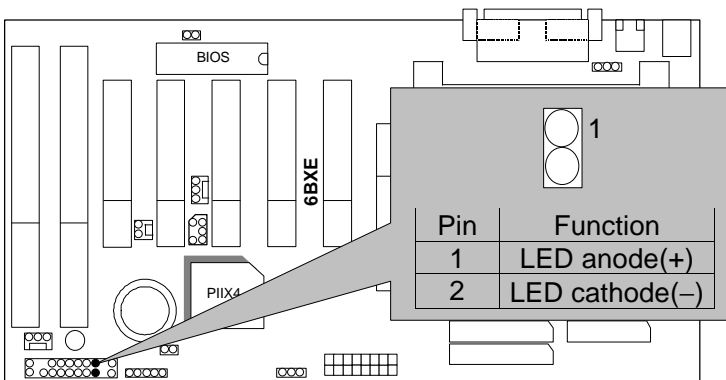
RE : Reset Switch



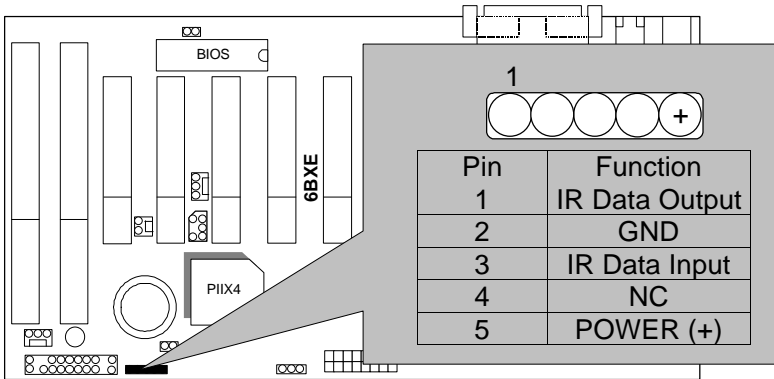
PW LED : Power LED Connector



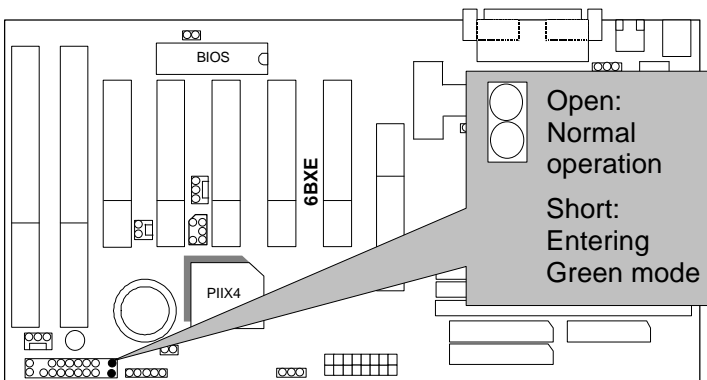
HD : IDE Hard Disk Active LED



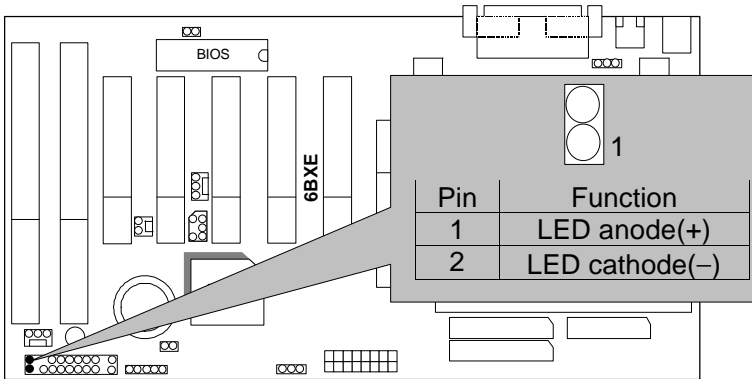
IR : Infrared Connector (Optional)



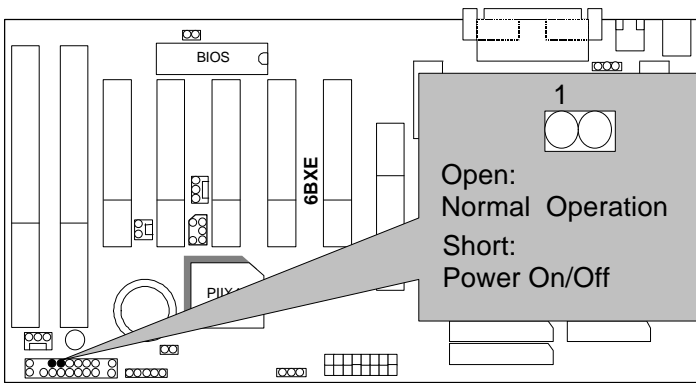
GN : Green Function Switch



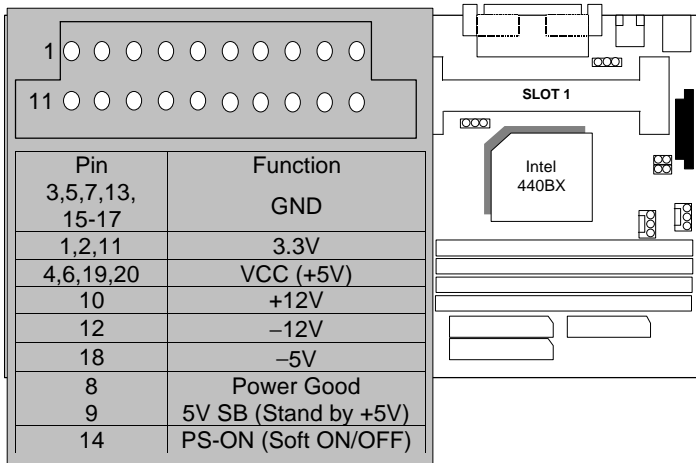
GD : Green LED



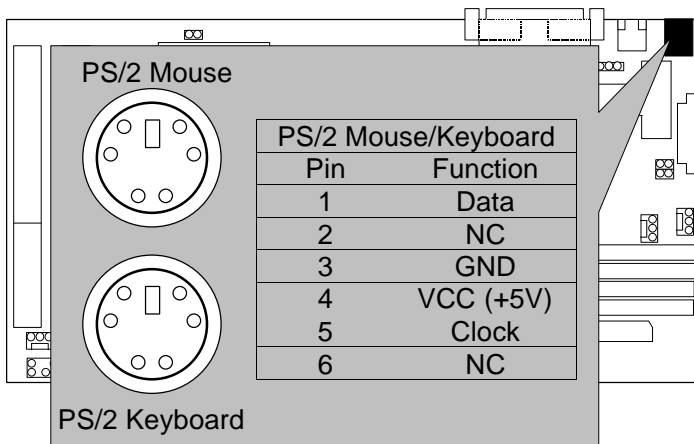
PW : Soft Power Connector



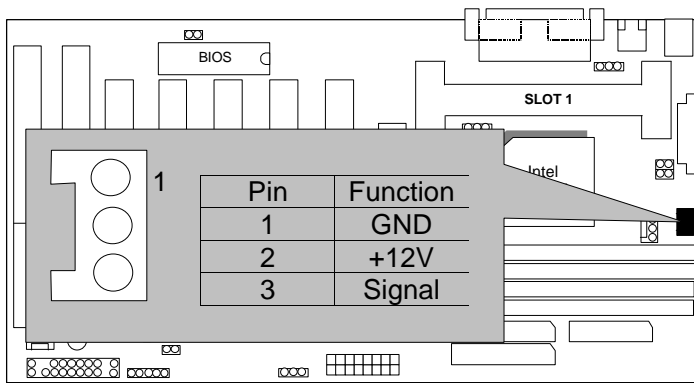
ATX POWER : ATX POWER Connector



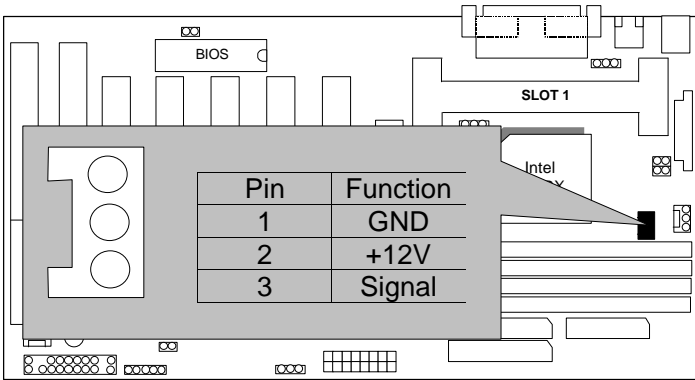
PS/2 Mouse / Keyboard Connector



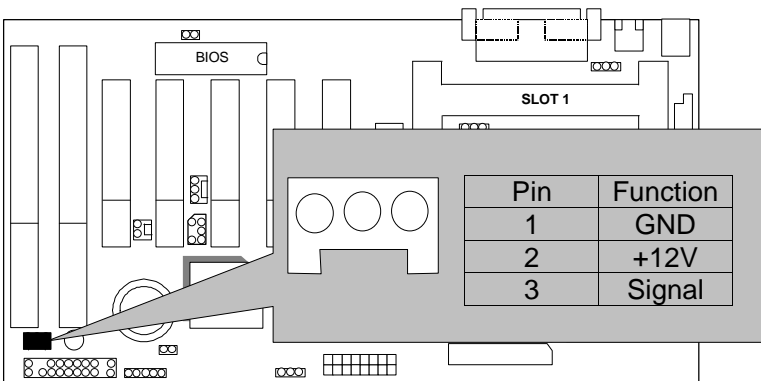
CPU FAN : CPU Cooling Fan Power Connector



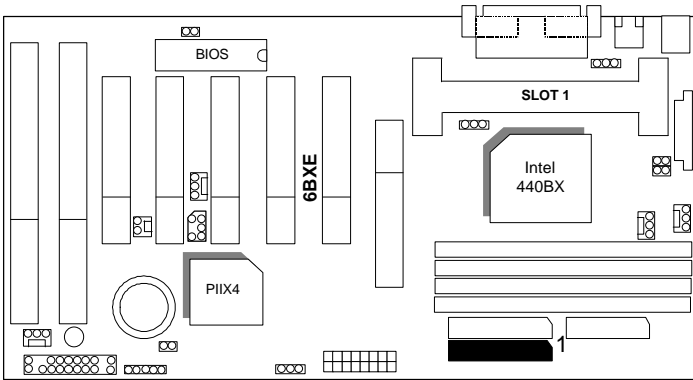
POWER FAN : Power Fan Connector



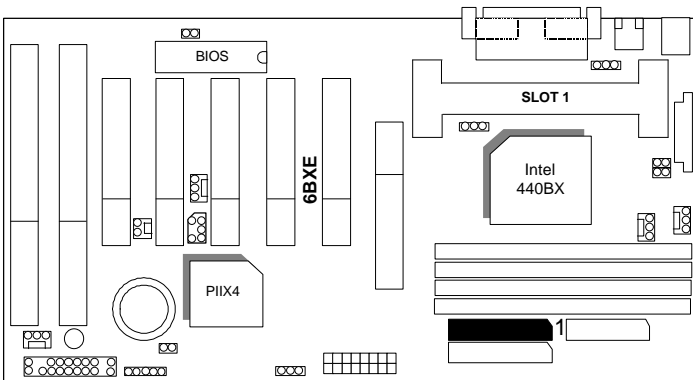
PANEL FAN : Panel Fan Connector



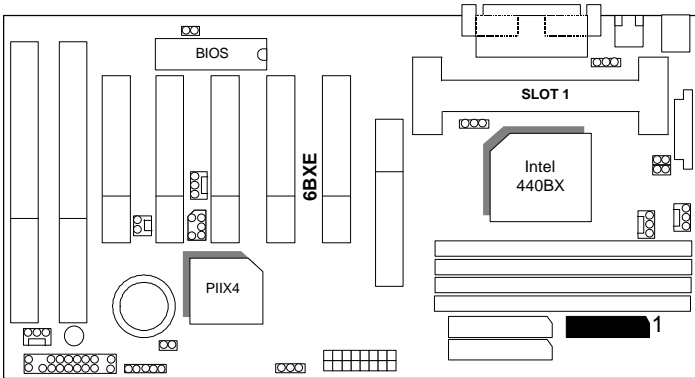
IDE1: For Primary IDE port



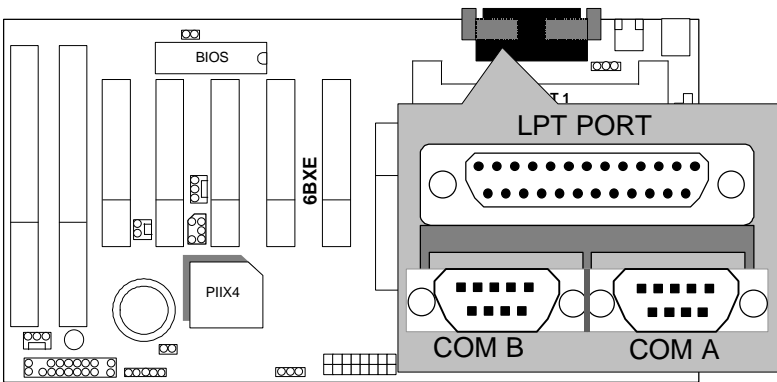
IDE2: For Secondary IDE port



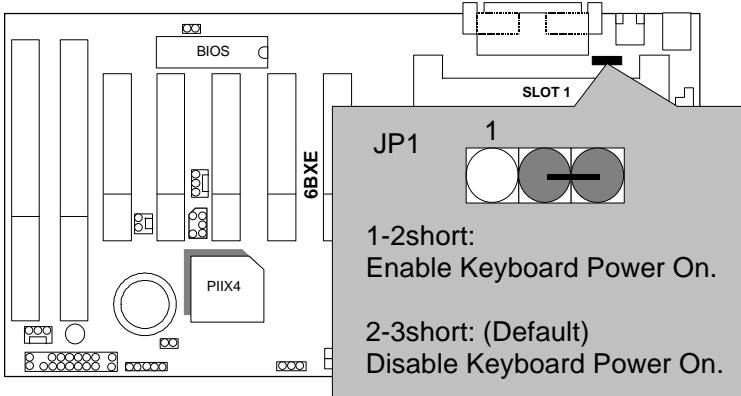
FLOPPY : FLOPPY PORT



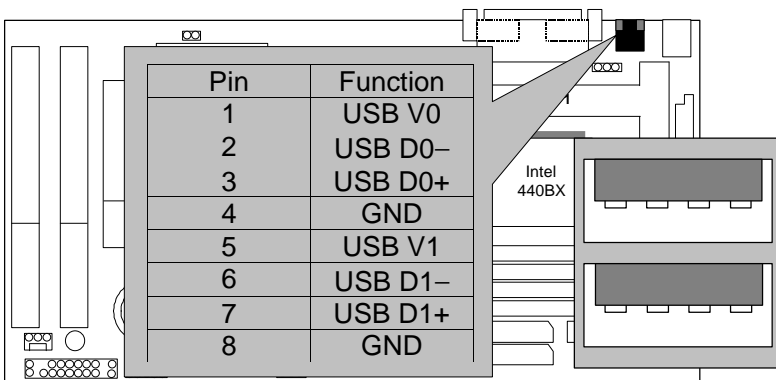
LPT PORT / COM A / COM B



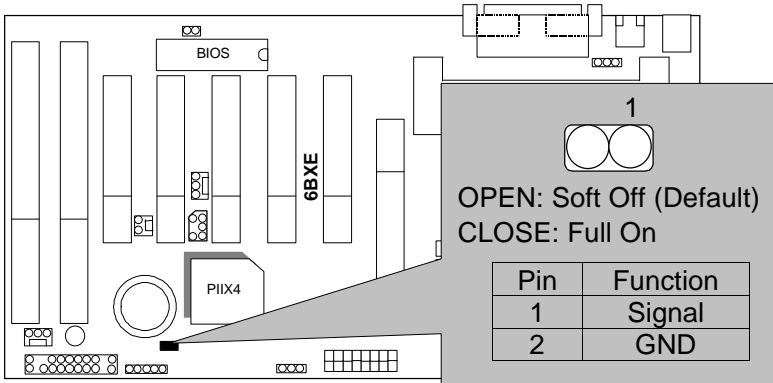
JP1 : Keyboard Power On Selection



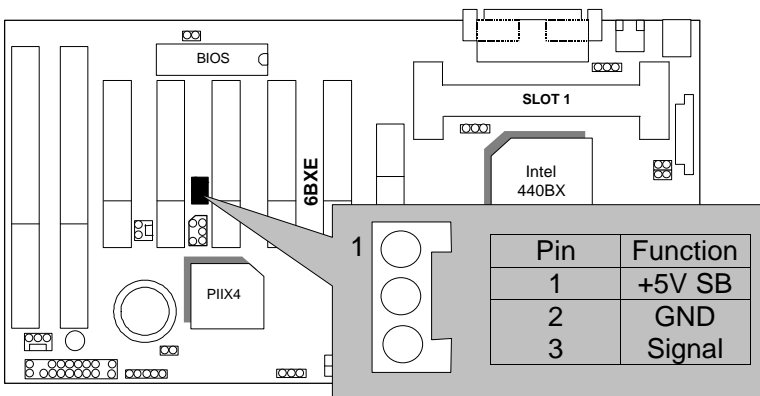
USB : USB Port



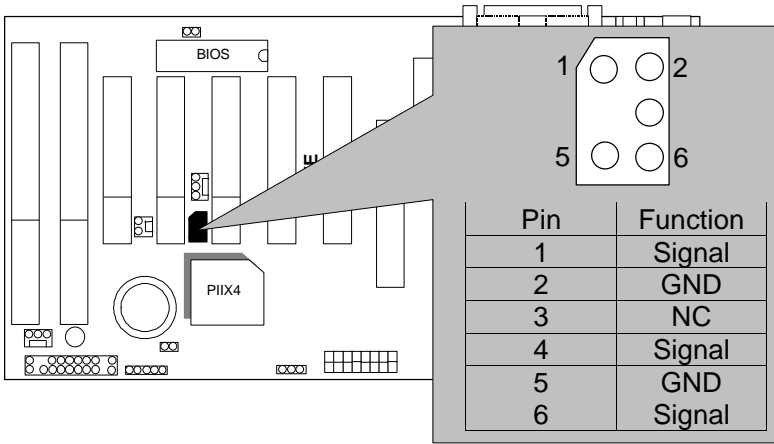
J15: System After AC Back



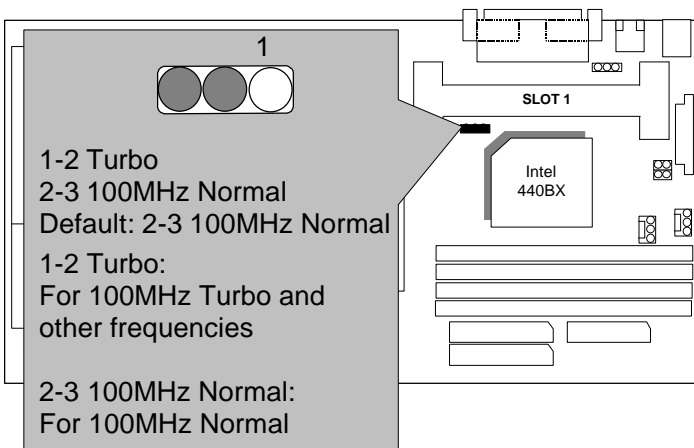
JP7: Wake On LAN



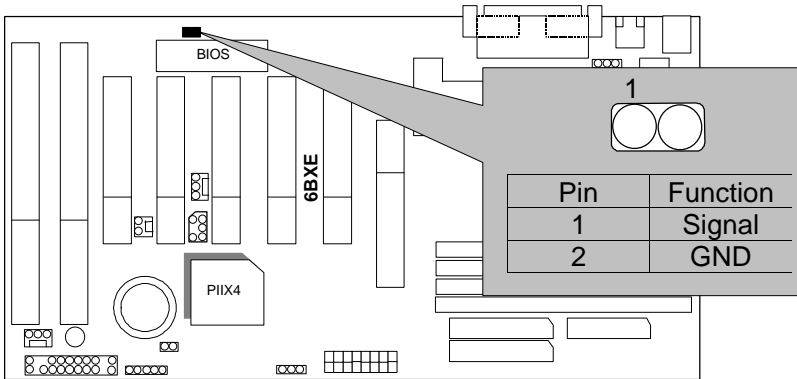
JP8:SB-LINK Creative PCI Sound Card Support



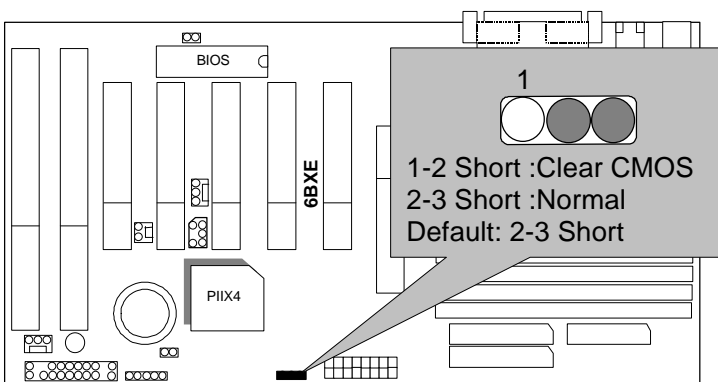
JP11 : System Acceleration



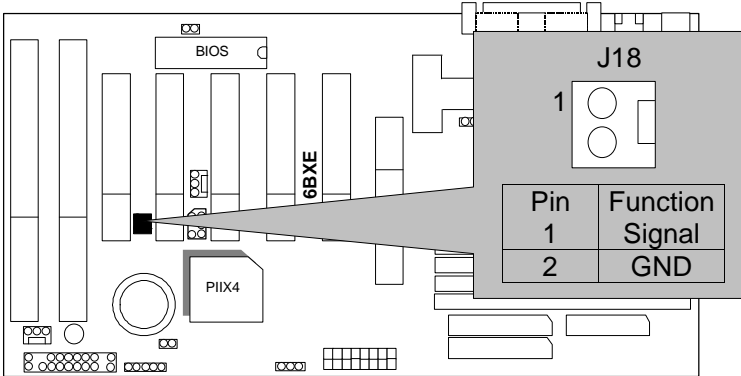
JP12 : CASE OPEN (Optional)



JP14 : CLEAR CMOS FUNCTION

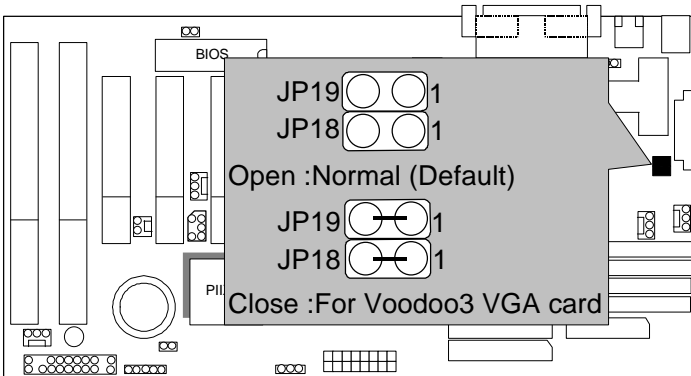


J18:Internal Modem Card Ring PWR On

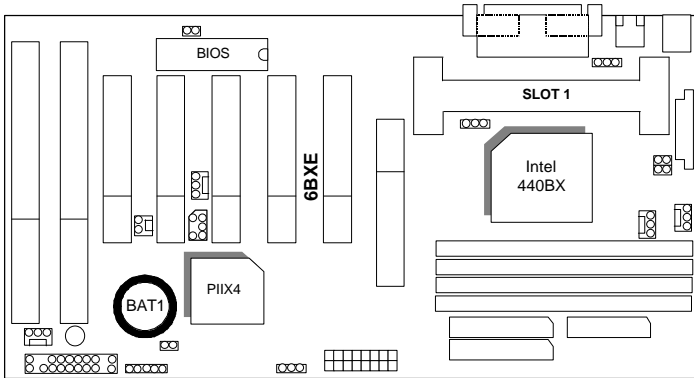


JP18 & JP19

(This function is support in PCB version 2.0 and above)



BAT1 :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.

```

ROM PCI/ISA BIOS (2A69K60E)
CHIPSET FEATURES SETUP
AWARD SOFTWARE, INC.

Reset Case Open Status      : No
Case Opened                 : No
Slow Down CPU Duty Cycle    : Normal
Shutdown Temp.(°C/°F)      : 75/167
**Temp. Select (°C/°F)**
CPU :70/158
**Temperature Alarm**
CPU :No
**Current Temp.(°C/°F)**
CPU : 33/91
**Fan Fail Alarm**
CPU:No    POWER:No    PANEL:No
**Current Fan Speed (RPM)**
CPU:5443  POWER:0     PANEL:0
**Current Voltage (V)**
VCCORE :1.95  VGTL : 1.52  VCC3:3.35
+ 5V: 5.08   +12V: 12.52 -12V:-11.86
- 5V:- 5.09  VBAT: 3.26  5USB:5.05

EDO CAS# Wait State        : 1
EDO RAS# Wait State        : 1
SDRAM CAS Latency Time     : 2
DRAM Data Integrity Mode   : Non-ECC
System BIOS Cacheable      : Enabled
Video BIOS Cacheable       : Enabled
Video RAM Cacheable        : Enabled
16Bit I/O Recovery Time    : 1
Memory Hole At 15M-16M     : Disabled
Delayed Transaction        : Disabled
Clock Spread Spectrum      : Disabled

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


Users have to modify the value for each item in chipset features as follow for top performance setting.

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

- CPU Pentium® II / III processor
- DRAM (128 x 1) MB SDRAM (TOSHIBA TC59S6408FTL-80H)
- CACHE SIZE 512 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 256 colors x 75Hz.
TRIONES Bus Master IDE Driver 3.60

Processor	Pentium® II	Pentium® III
	400MHz(100x4)	500MHz(100x5)
Winbench99		
CPU mark32	1040	1260
FPU Winmark	2060	2550
Business Disk	4360	4450
Hi-End Disk	10400	10900
Business Graphics	145	166
Hi-End Graphics	368	442
Winstone99		
Business	29.8	33
Hi-End	27.6	31.5

