

6BXA

USER'S MANUAL

1. **Support Modem Ring-On. (Include internal Modem and external modem on COM A and COM B)**
2. **Support Wake-up On LAN. (Your ATX power supply must support larger than 720 mA 5V Stand-By current)**
3. **ESS SOLO-1 Sound Onboard.**
4. **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.**
5. **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.**

**For Intel Pentium® II / Celeron™ Processor MAINBOARD
REV. 1.0 First Edition**

R-10-01-090114

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.

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Jan 14, 1999 Taipei, Taiwan

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

The default system bus speed is 66/100MHz. The user can change the DIP SWITCH (**SW2**) selection to set up the CPU speed for 233 - 633MHz 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:

CPU	AGP	PCICLK	1	2	3	4
66	66	33.4	ON	OFF	OFF	ON
75	75	37.5	ON	ON	OFF	ON
83	86	41.65	ON	OFF	ON	ON
100	66	33.43	OFF	OFF	OFF	OFF
112	75	37.33	OFF	ON	OFF	OFF
133	89	44.33	OFF	OFF	ON	OFF

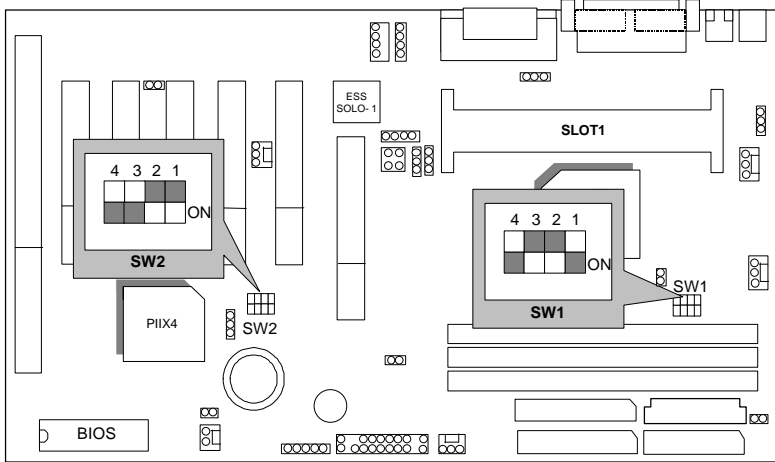
Set System Bus Speed

SW2:

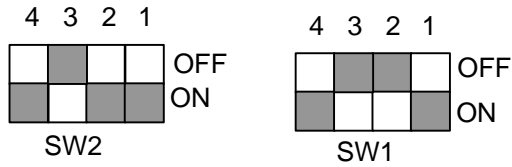
CLK RATIO	1	2	3	4
X3	ON	OFF	ON	ON
X3.5	OFF	OFF	ON	ON
X4	ON	ON	OFF	ON
X4.5	OFF	ON	OFF	ON
X5	ON	OFF	OFF	ON
X5.5	OFF	OFF	OFF	ON
X6	ON	ON	ON	OFF
X6.5	OFF	ON	ON	OFF

- ★ **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.**

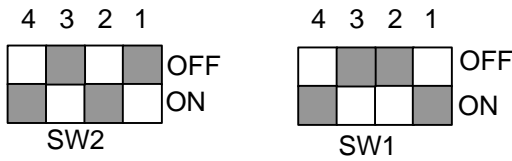
1. Pentium® II / Celeron 233 MHz / 66MHz FSB



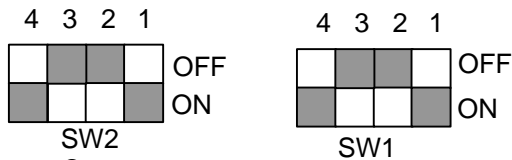
2. Pentium® II / Celeron 266MHz / 66MHz FSB



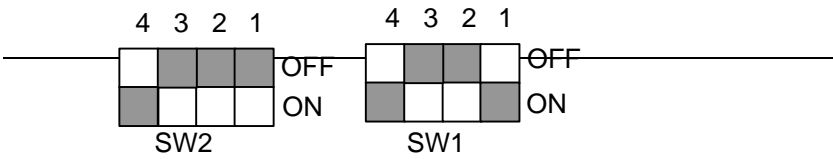
3. Pentium® II / Celeron 300MHz / 66MHz FSB



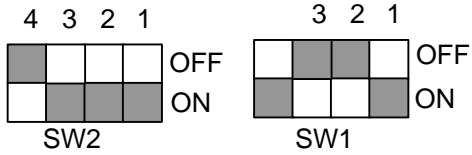
4. Pentium® II / Celeron 333 MHz / 66MHz FSB ;
 Celeron 300A / 66MHz FSB



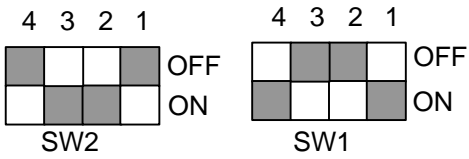
5. Pentium® II / Celeron 366MHz / 66MHz FSB



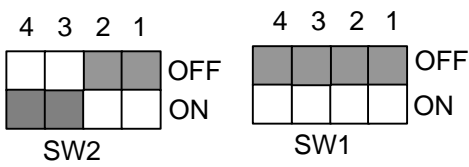
6. Pentium® II / Celeron 400MHz / 66MHz FSB



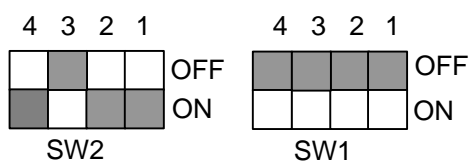
7. Pentium® II / Celeron 433MHz / 66MHz FSB



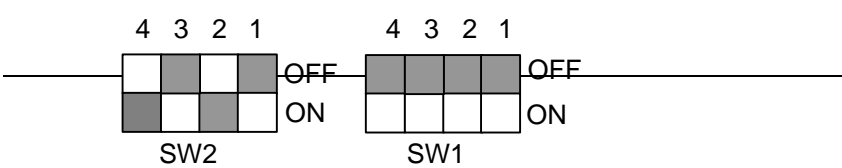
8. Pentium® II 350MHz / 100MHz FSB



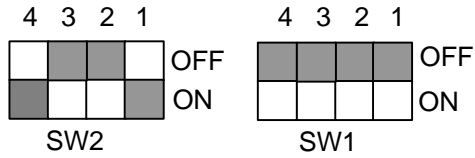
9. Pentium® II 400MHz / 100MHz FSB



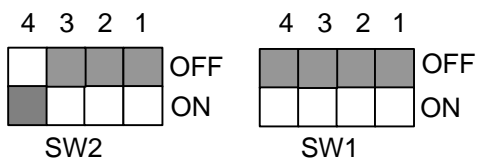
10. Pentium® II 450MHz / 100MHz FSB



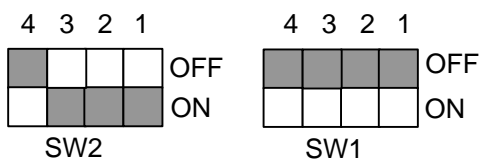
11. Pentium® II 500MHz / 100MHz FSB



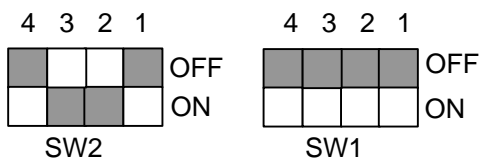
12. Pentium® II 550MHz / 100MHz FSB



13. Pentium® II 600MHz / 100MHz FSB

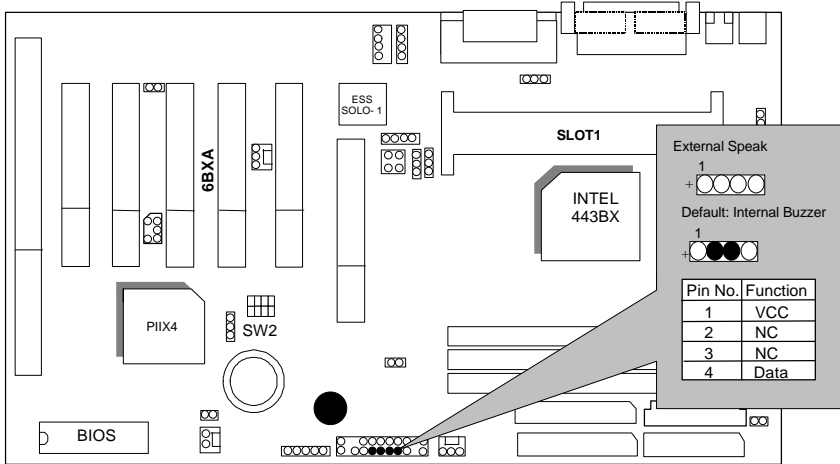


14. Pentium® II 650MHz / 100MHz FSB

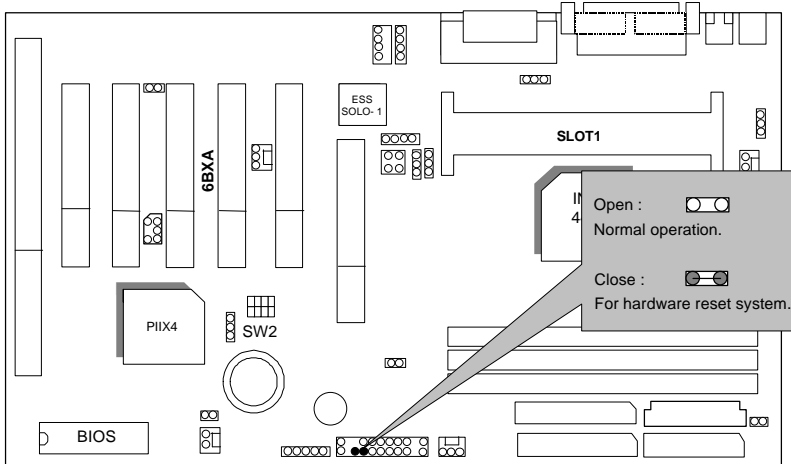


II. Jumper setting :

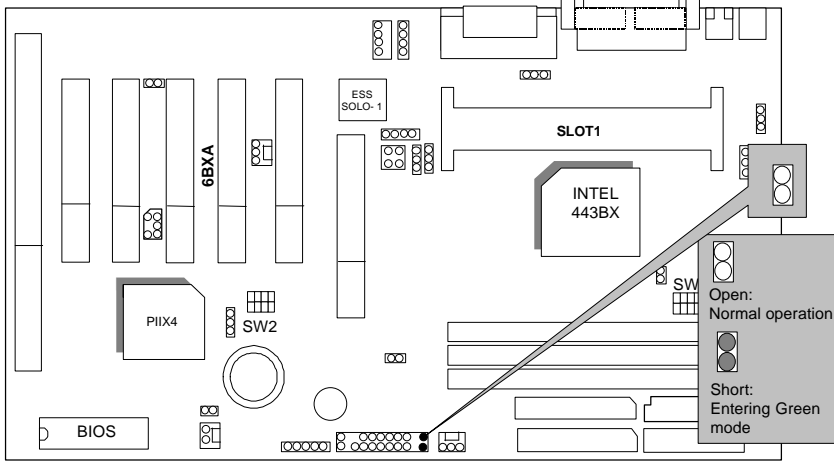
SPK : External Speaker/ Internal Buzzer Connector



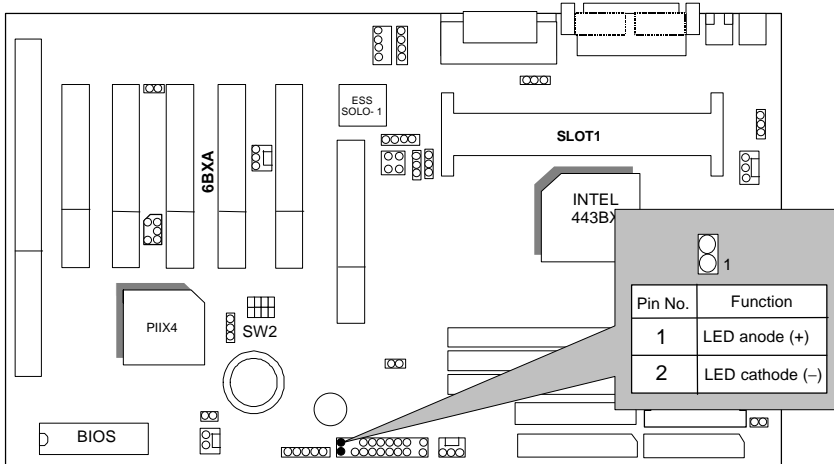
RES : Reset Switch



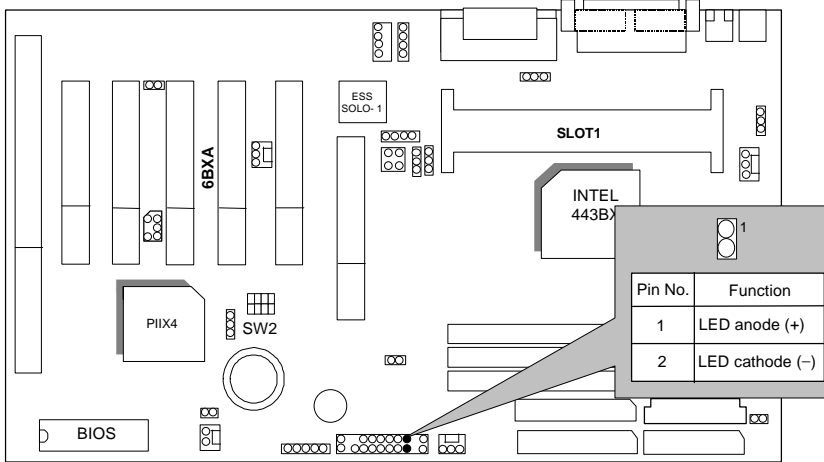
GN : Green Function Switch



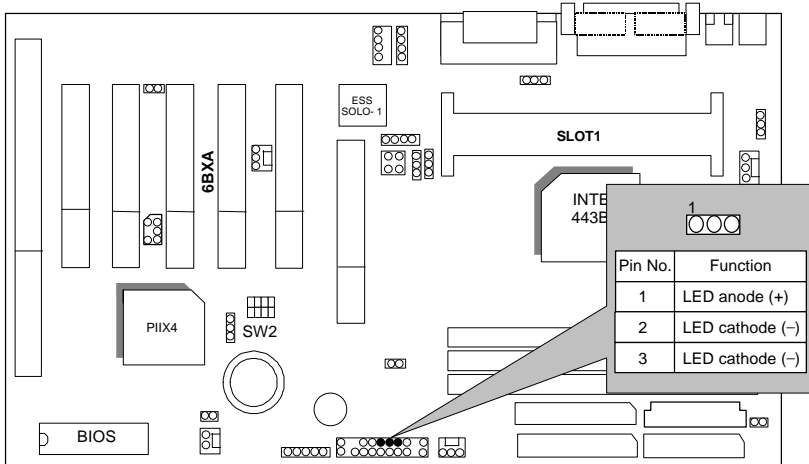
GD : Green Function LED



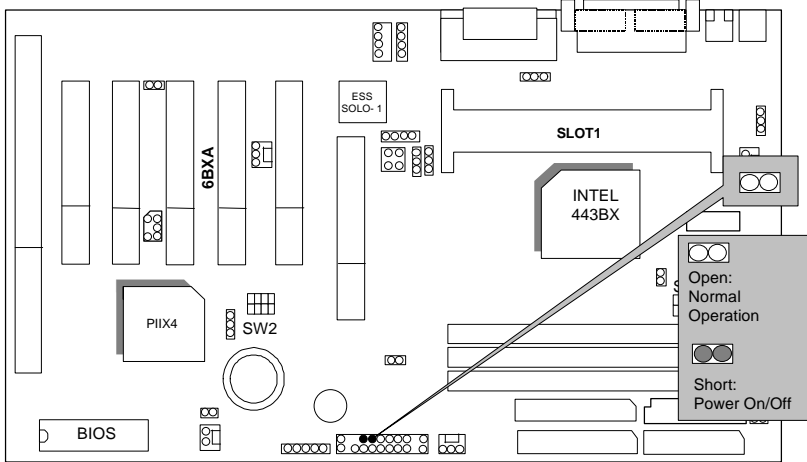
HD : IDE Hard Disk Active LED



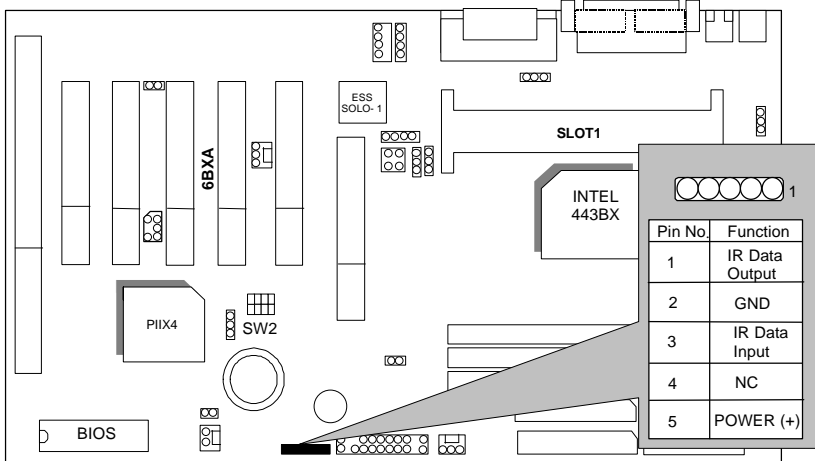
PW : Power LED Connector



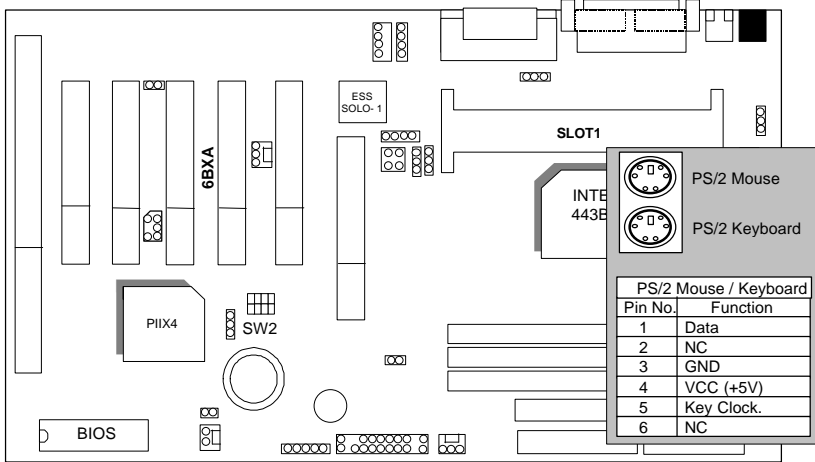
Soft PWR : Soft Power Connector



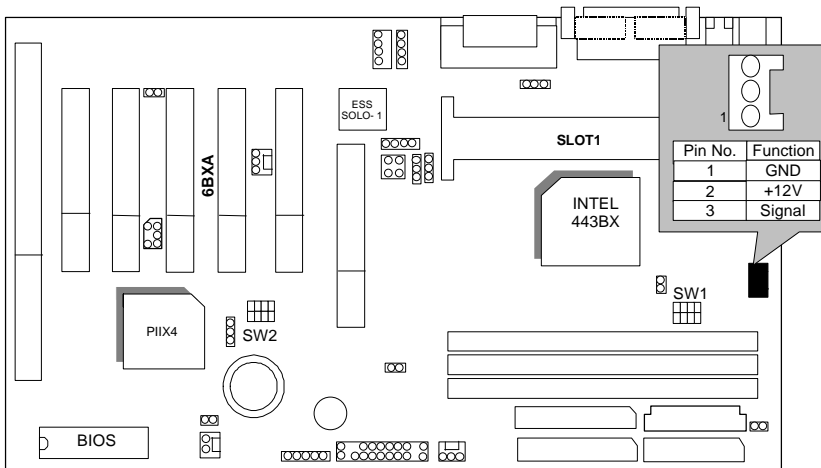
IR: Infrared Connector (Optional)



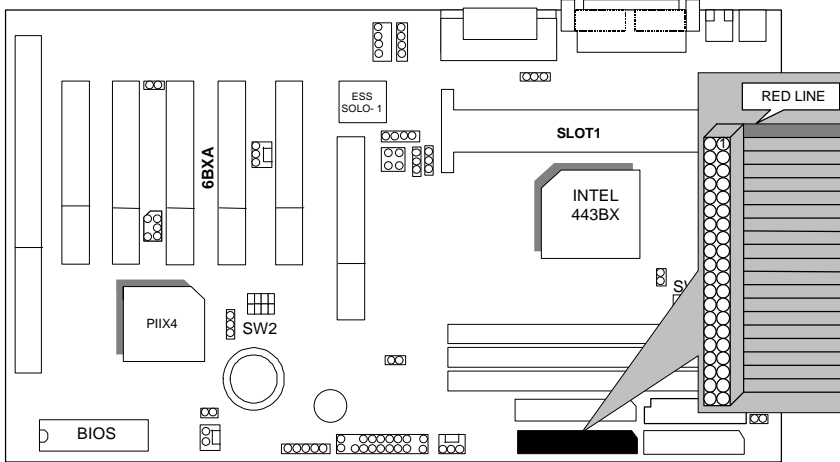
PS/2 Mouse / Keyboard Connector



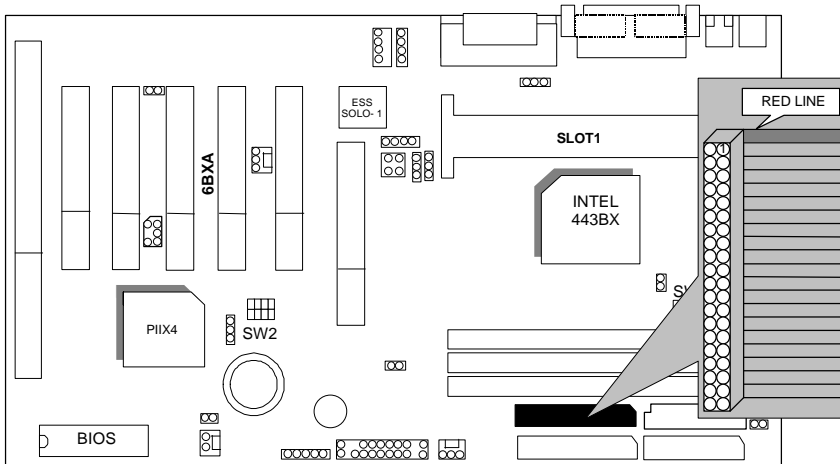
PWR FAN : Power Fan Connector



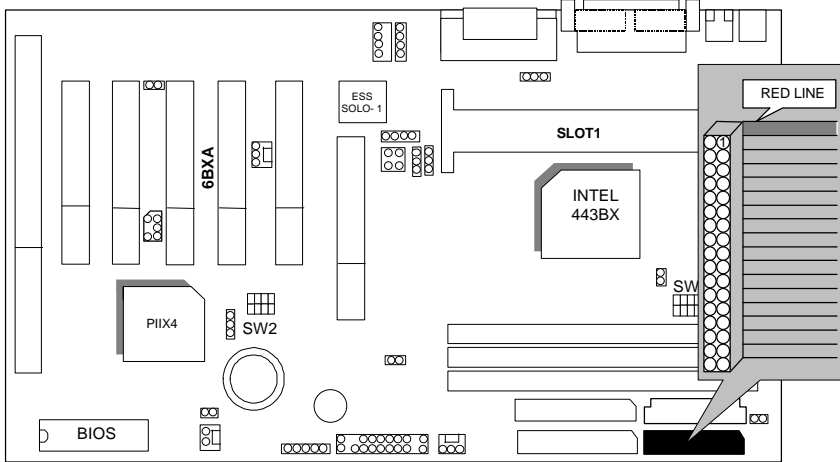
IDE1: For Primary IDE port



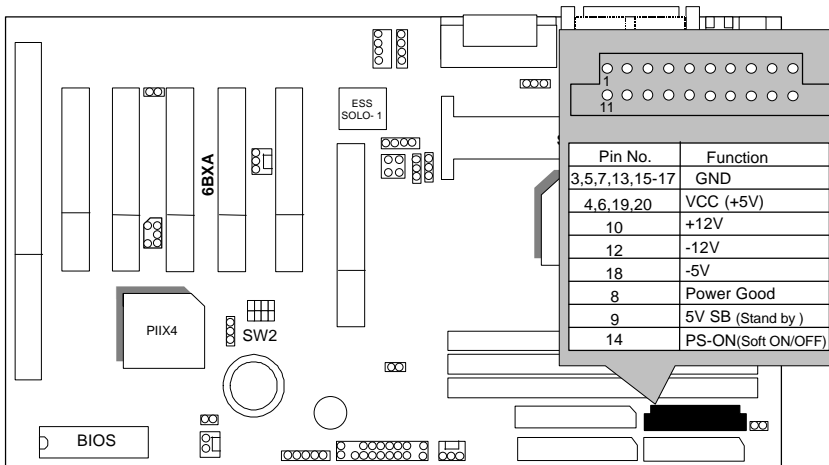
IDE2: For Secondary IDE port



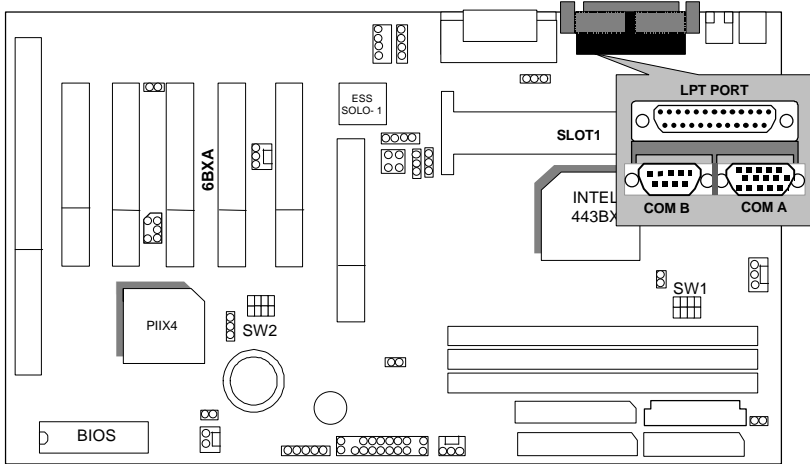
FLOPPY : FLOPPY PORT



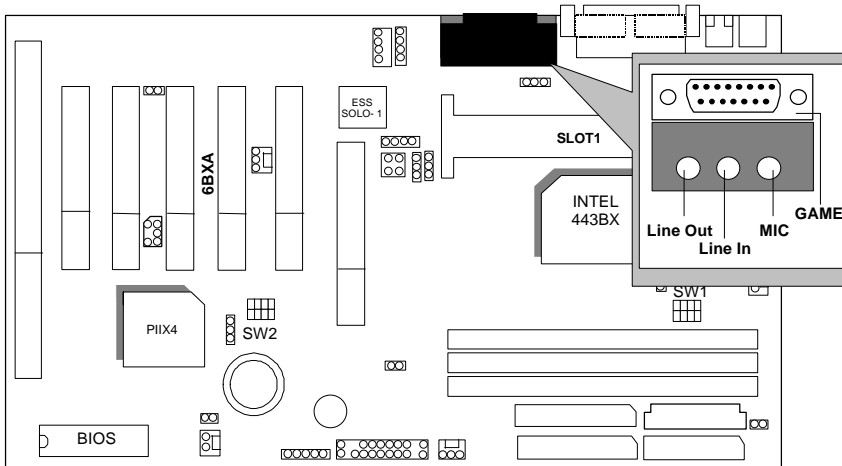
ATX POWER : ATX POWER Connector



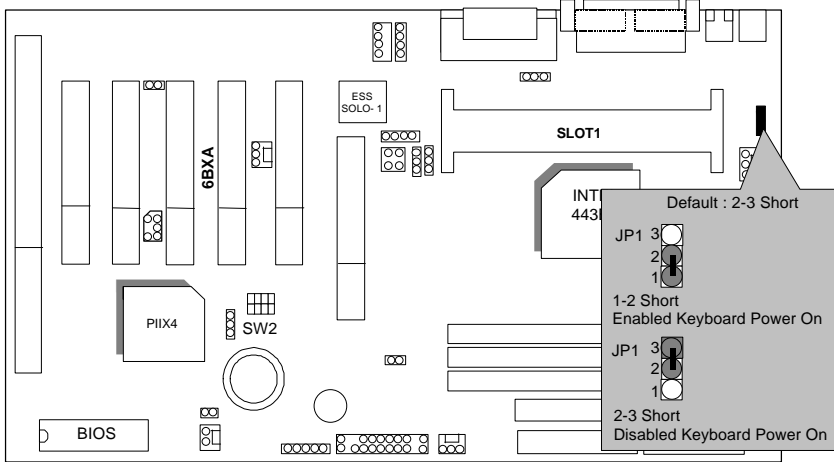
LPT PORT / COM A / COM B



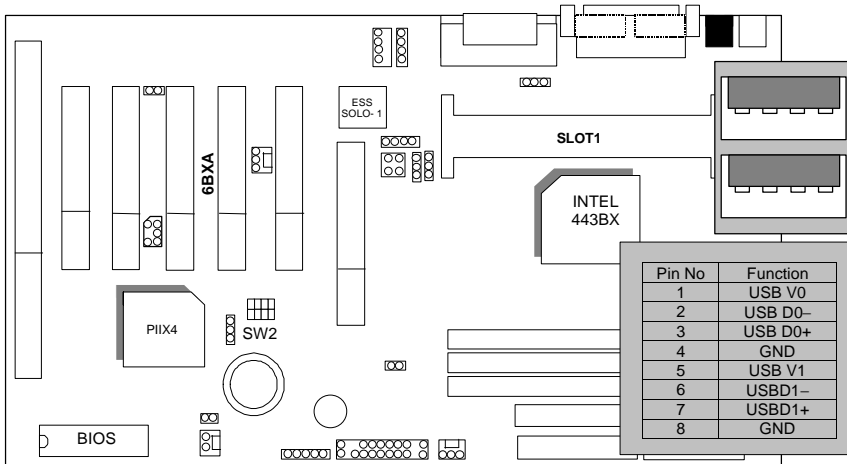
GAME & AUDIO PORT



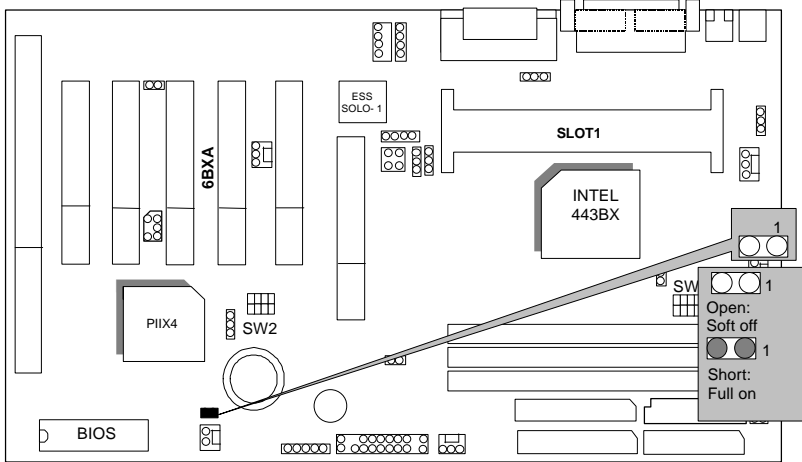
JP1 : Keyboard Power On Select



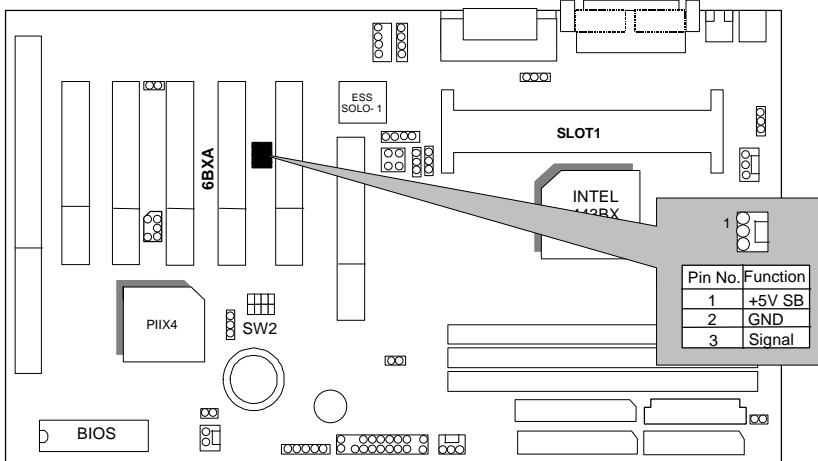
USB: USB Port



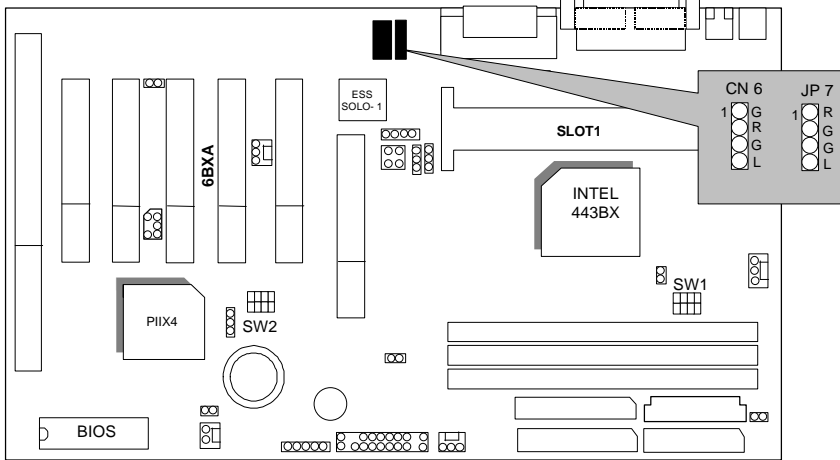
J12: ATX Power Control Selection



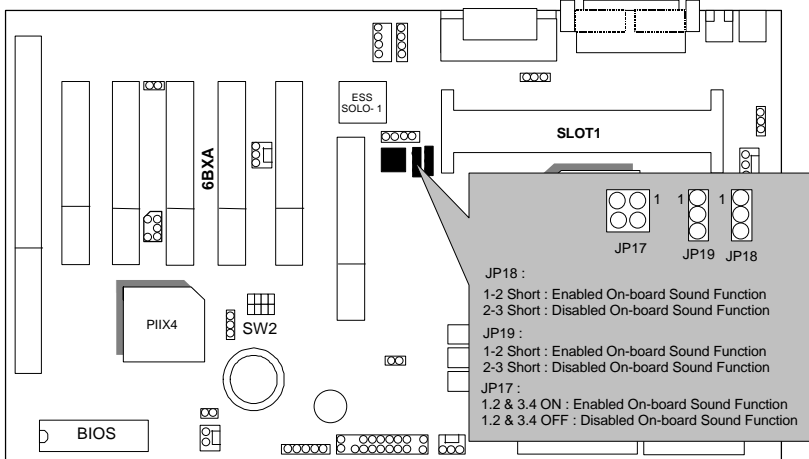
JP10: Wake On LAN



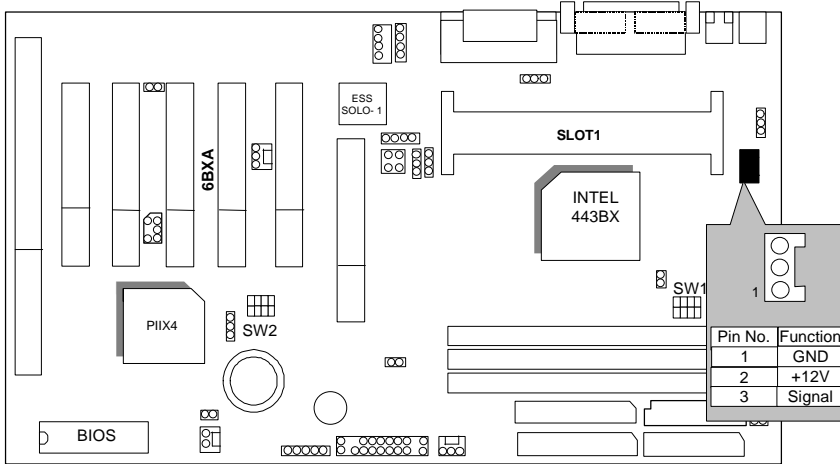
JP7 & D16: CD Audio Line-in Connector



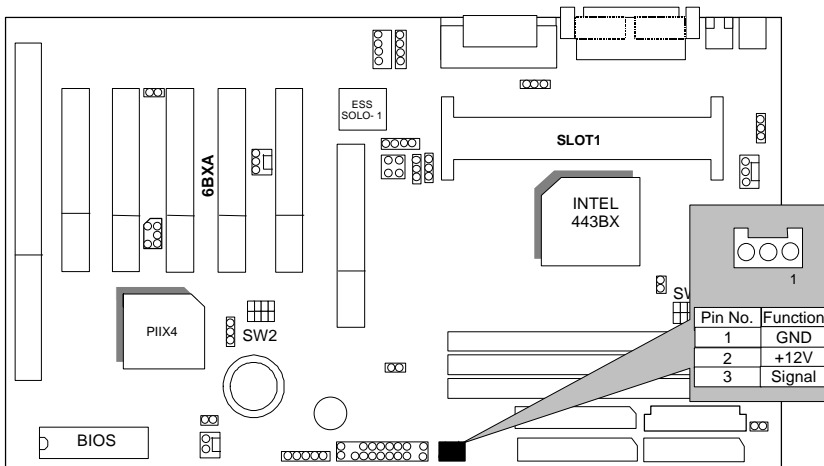
JP17/JP18/JP19: Onboard Sound Function Selection



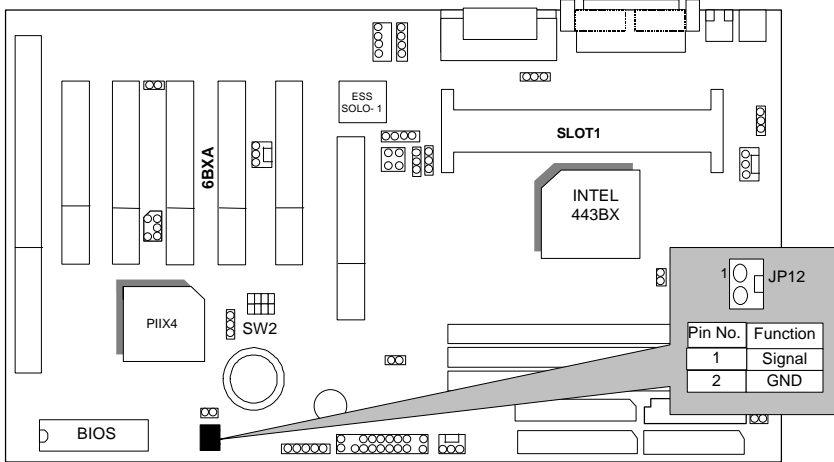
J2:CPU FAN (CPU Cooling Fan Power Connector)



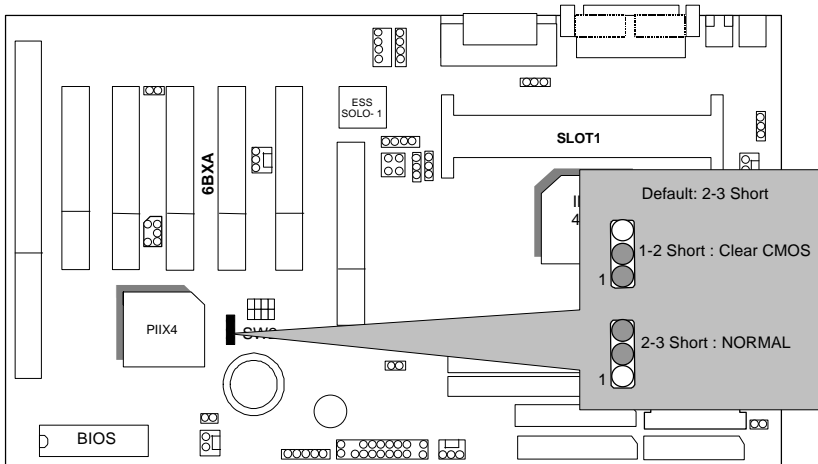
J9 : PANEL (SYS) FAN Connector



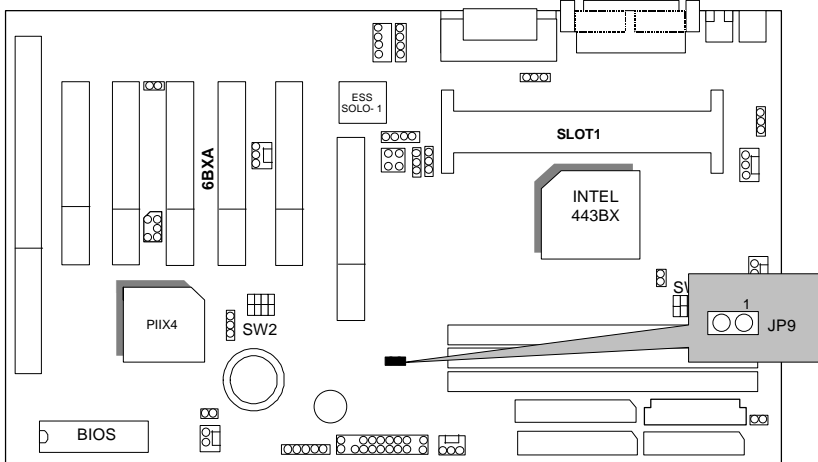
JP12: Ring Power On



JP13: CLEAR CMOS FUNCTION

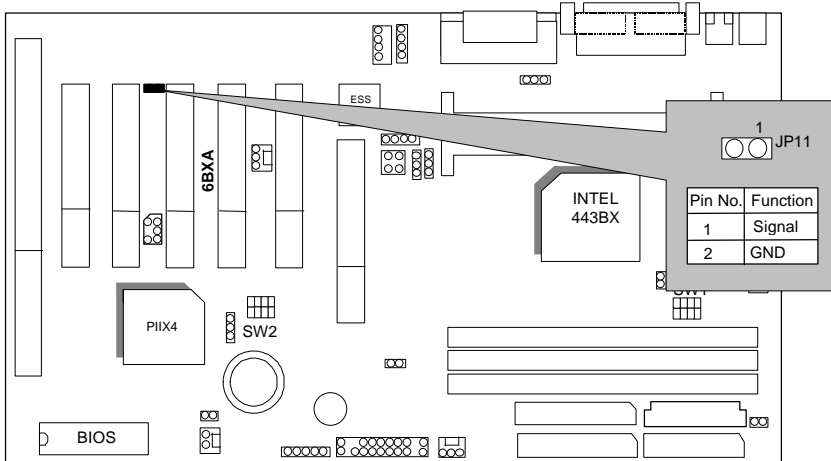


JP9: STR LED Connector

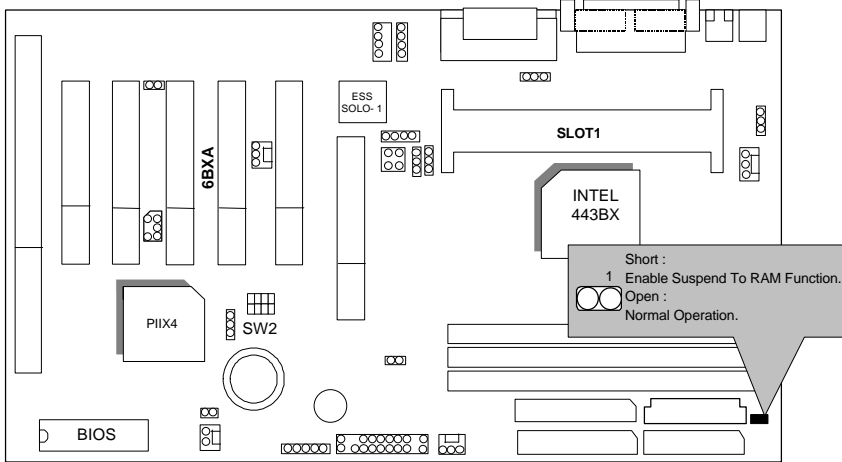


● When RAM LED will on, do not unplug the SDRAM modules.

JP11: Case Open (Optional)



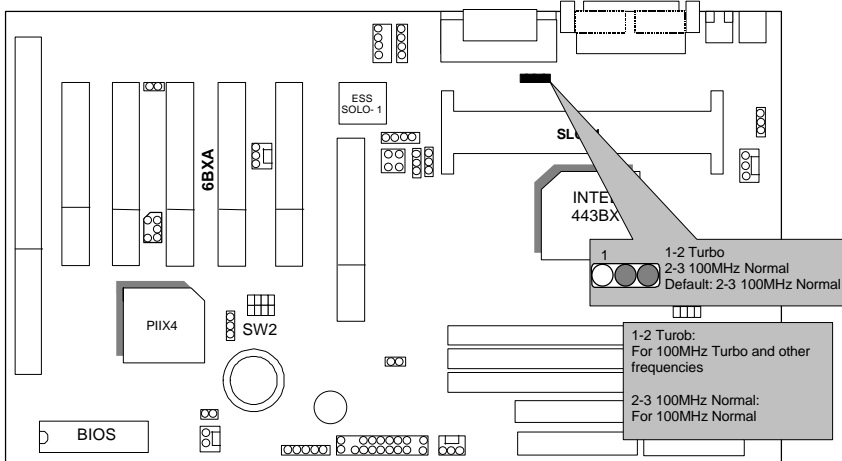
JP14: Suspend To RAM Function (Optional)



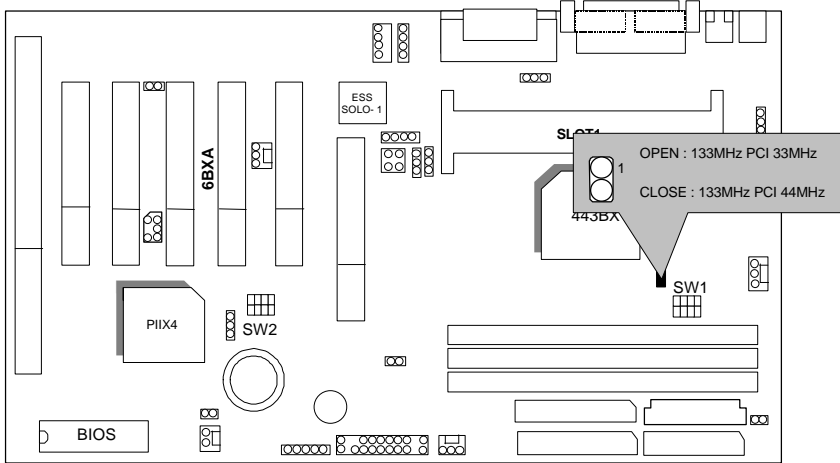
• When STR function is Enabled, please do not unplug the SDRAM modules, for it will burn the SDRAMs and mainboard .

- Support under Windows 98 ACPI O.S.
- When use STR function ,it's depends on VGA brand version .

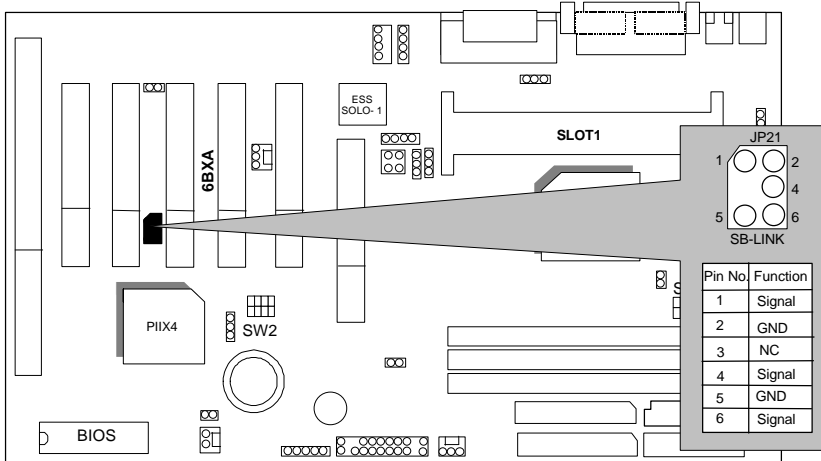
JP4: System Acceleration



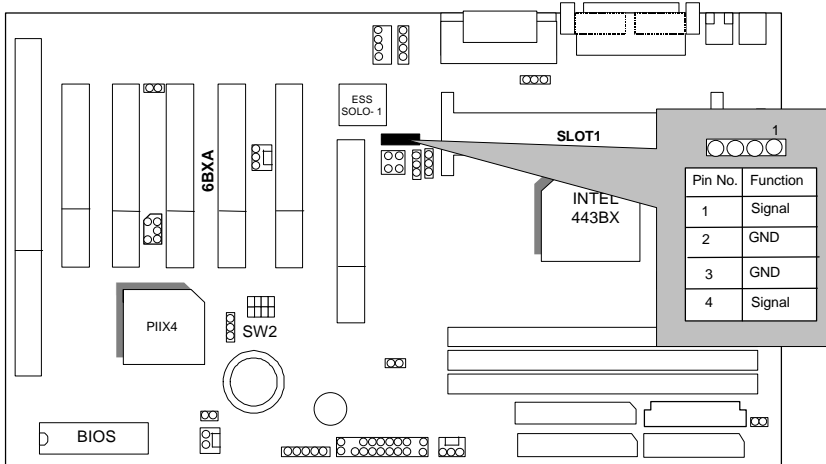
JP16 :PCI Bus Freq.Select (133MHz only)



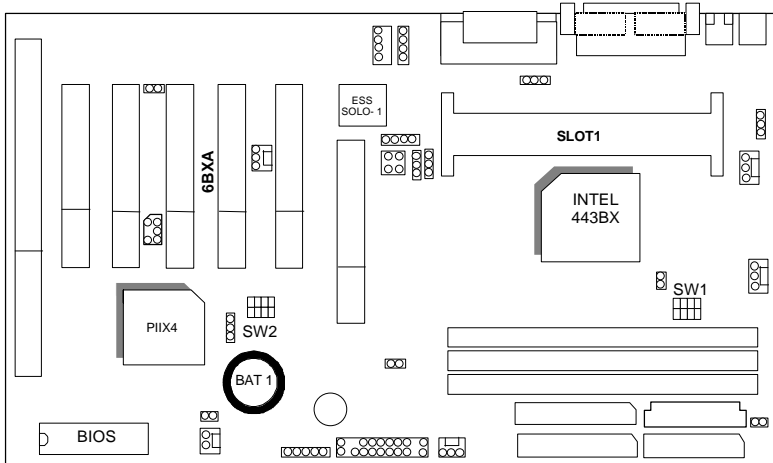
JP21 : SB-LINK Port (Creative PCI Sound Card Support) (Optional)



TEL :The Connector is for Modem with internal Voice Connector



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      Reset Case Open Status    : No
EDO RAS# Wait State        : 1      Case Opened               : Yes
SDRAM CAS Latency Time     : 2      * Current Temp.(°C/°F)**
DRAM Data Integrity Mode   : Non-ECC CPU : 30/200
System BIOS Cacheable      : Enabled * Current Fan Speed (RPM)**
Video BIOS Cacheable       : Enabled CPU: 5818 POWER:0 PANEL: 0
Video RAM Cacheable        : Disabled * Current Voltage (V)**
16 Bit I/O Recovery Time   : 1      VCCOREA:1.95 VGTL : 1.47 VCC3: 3.24
Memory Hole At 15M-16M     : Disabled + 5V: 4.91 +12V: 11.85 -12V:-12.19
Delayed Transaction        : Disabled - 5V:- 4.94 VBAT: 3.12 5USB: 4.89
Spread Spectrum            : Disabled
Slow Down CPU Duty Cycle   : Normal
Shutdown Temp.(°C/°F)     : 75°C/167°F

**Temp. Select (°C/°F)**
CPU :70°C/158°F
**Temperature Alarm**
CPU :No
* Fan Fail Alarm**
CPU:No POWER:No PANEL:No

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 (TOSHIBA TC59S6408FTL-80H)
- CACHE SIZE 512 KB included in CPU
- DISPLAY GA-630 voodoo banshee (16MB SGRAM)
- STORAGE Onboard IDE (IBM DHEA 36481)
- O.S. Windows NT™4.0 SPK4
- DRIVER Display Driver at 1024 x 768 x 64K colors x 75Hz.
TRIONES Bus Master IDE Driver 3.70a

Processor	Intel Pentium® II	
	500MHz(100x5)	400MHz(100x4)
Winbench99		
CPU mark32	1270	1080
FPU Winmark	2560	2070
Business Disk	4200	4070
Hi-End Disk	8210	8300
Business Graphics	228	198
Hi-End Graphics	408	345
Winstone99		
Business	34.2	31.3
Hi-End	30.2	26.7