

# **6BA**

## **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 720 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. Modem Ring-On on COM B.**
- 4. Wake-up on LAN supports(on J11): Your ATX power supply must support larger than 600 mA 5V Stand-By current.**
- 5. Support 3 steps ACPI LED.**
- 6. Support LDCM®**

**Pentium® II Processor MAINBOARD**

**REV. 1.0 First Edition**

R-01-01-080521



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May 21, 1998 Taipei, Taiwan

**I. Quick Installation Guide :**

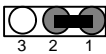
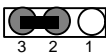
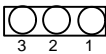
**CPU SPEED SETUP**

The system bus speed can be selectable between 66.6MHz and 100MHz. The user can select the system bus speed (JP8) and change the DIP SWITCH (SW) selection to set up the CPU speed for 200 - 633MHz processor.

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

FREQ. RATIO	DIP SWITCH (SW)			
	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

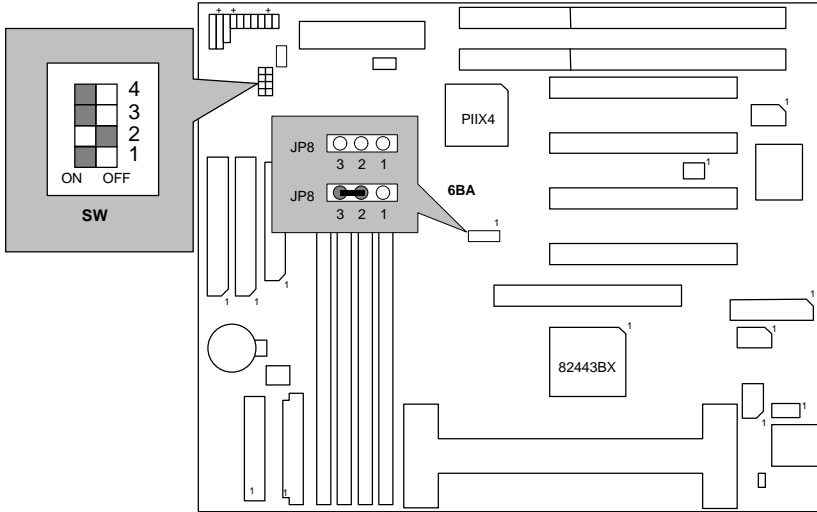
⚠️ **JP8** (Select the system speed between 66.6MHz and 100MHz)

<b>1-2 Close</b> 	<b>Set system speed to 66MHz</b> – system always run at 66MHz FSB (Front Side Bus).
<b>2-3 Close</b> 	<b>Set system speed to Auto</b> – system speed detect automatically (66/ 100MHz FSB).
<b>1-2-3 Open</b> 	<b>Set system speed to 100MHz</b> – system always run at 100MHz FSB (Front Side Bus).

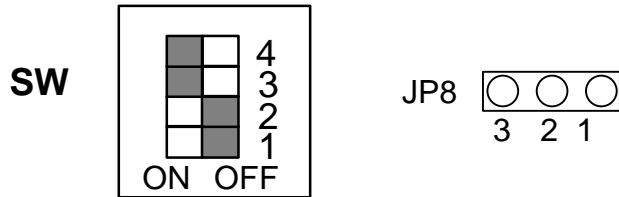
● There are two ways to set system speed

- A. 66MHz forced (JP8 1-2 short) or Auto detect (2-3 short)
- B. 100MHz forced (JP8 1-2-3 open) or Auto detect (2-3 short)

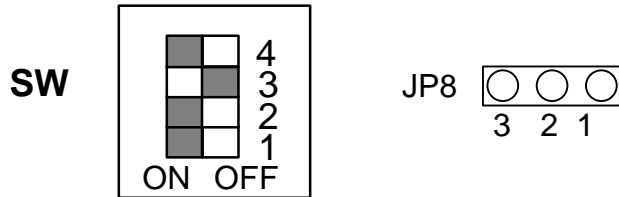
1. Pentium® II 300 / 100 MHz FSB



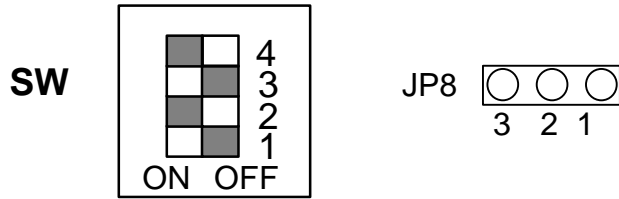
2. Pentium® II 350 / 100 MHz FSB



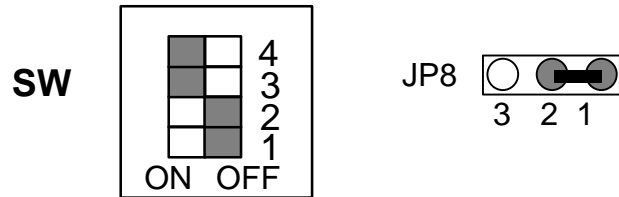
3. Pentium® II 400 / 100 MHz FSB



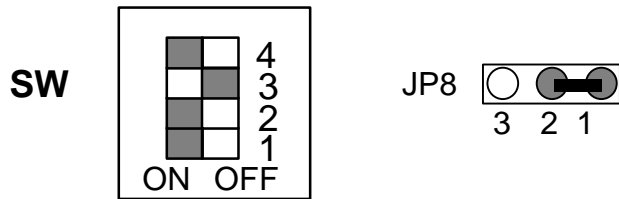
4. Pentium® II 450 / 100 MHz FSB



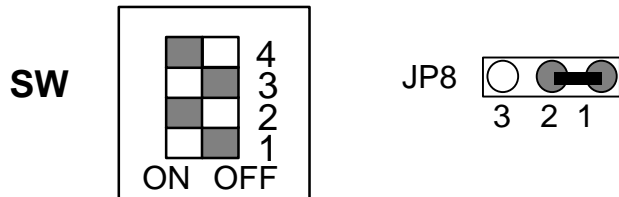
5. Pentium® II 233 / 66 MHz FSB



6. Pentium® II 266 / 66 MHz FSB

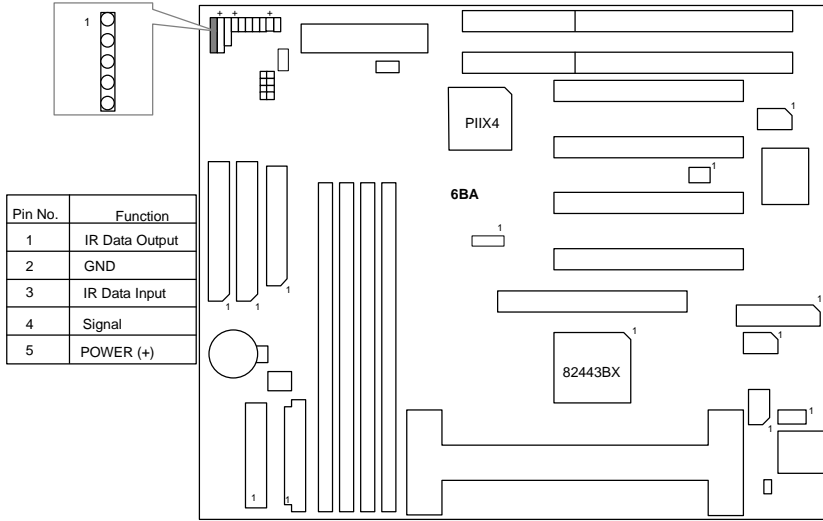


7. Pentium® II 300 / 66 MHz FSB

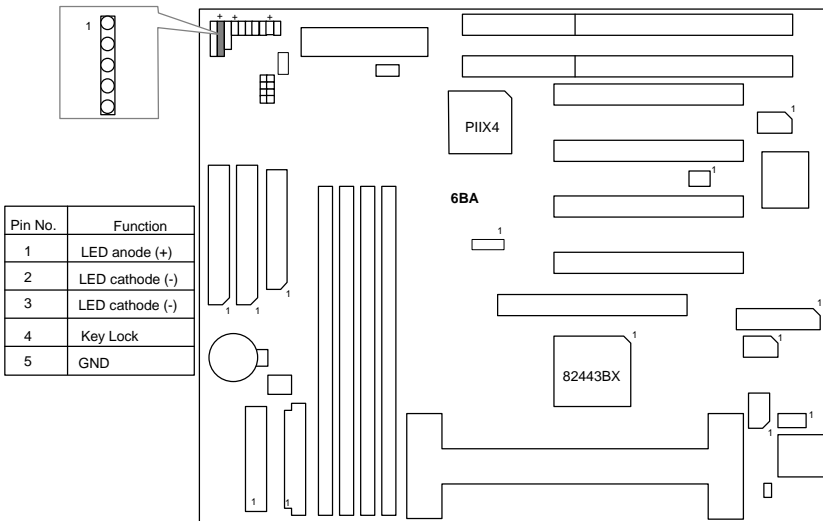


**II. Jumper setting :**

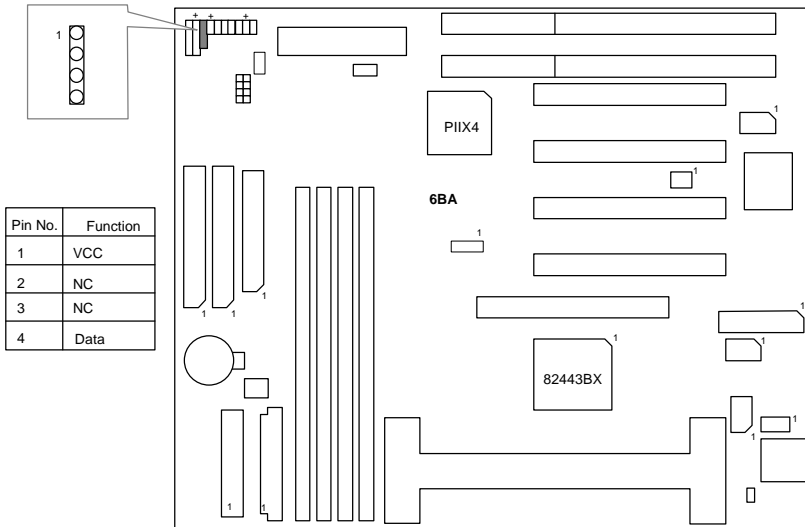
IR : Infrared Connector (Optional)



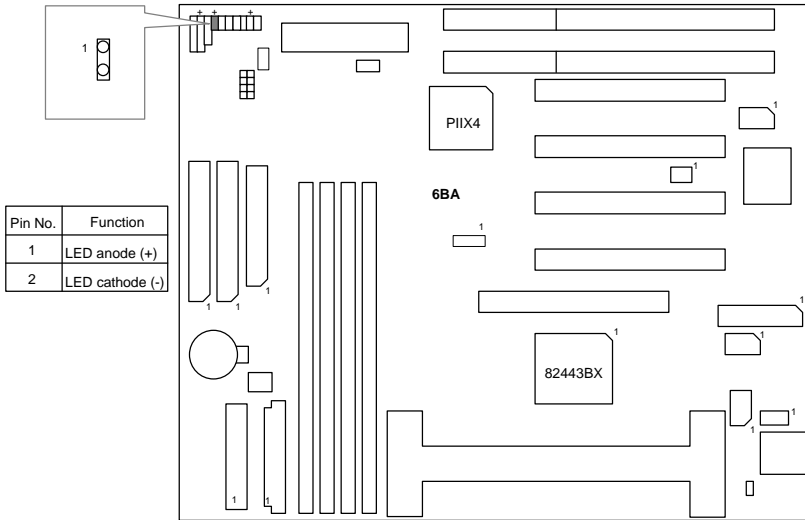
PWR : Power LED / Key-Lock Connector



SPK : Speaker Connector

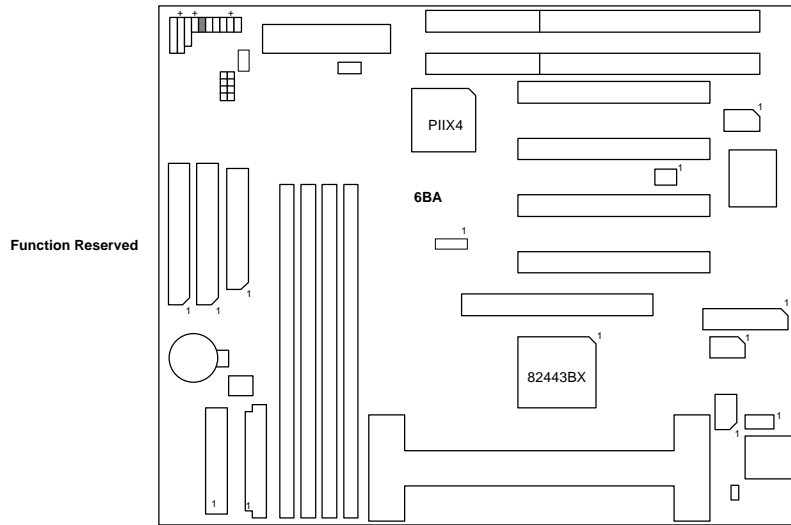


TD : Turbo LED Connector

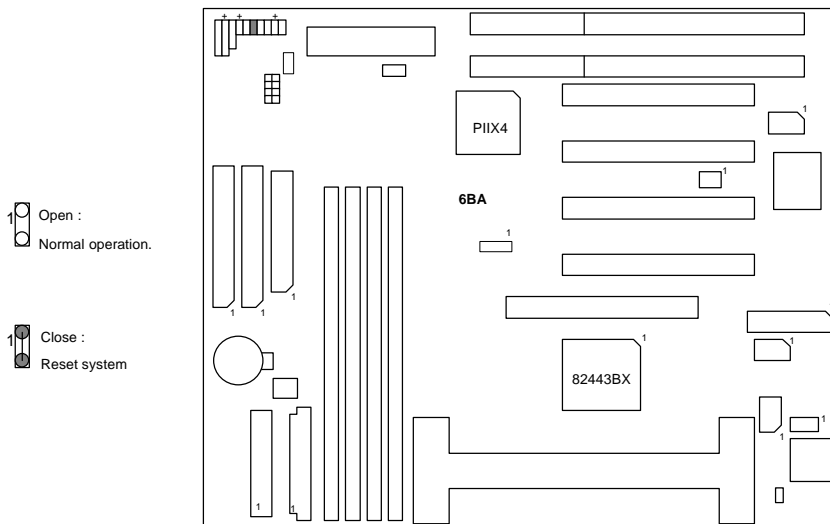




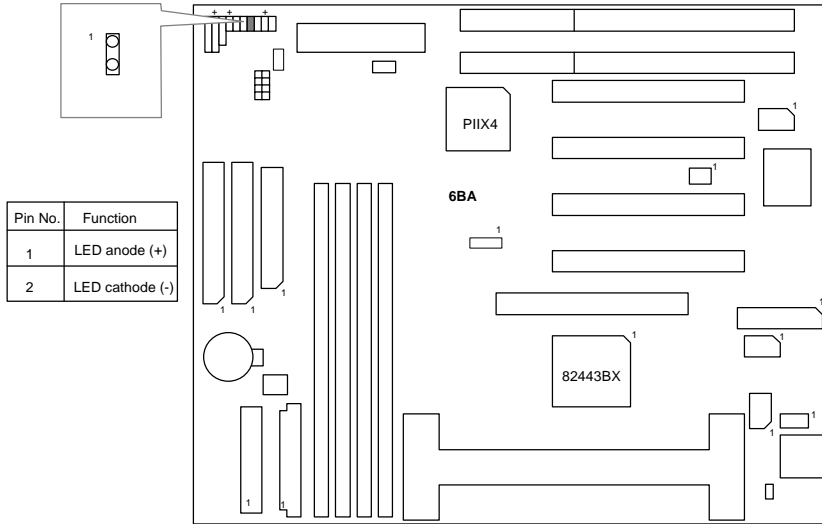
TB : Turbo Switch Connector



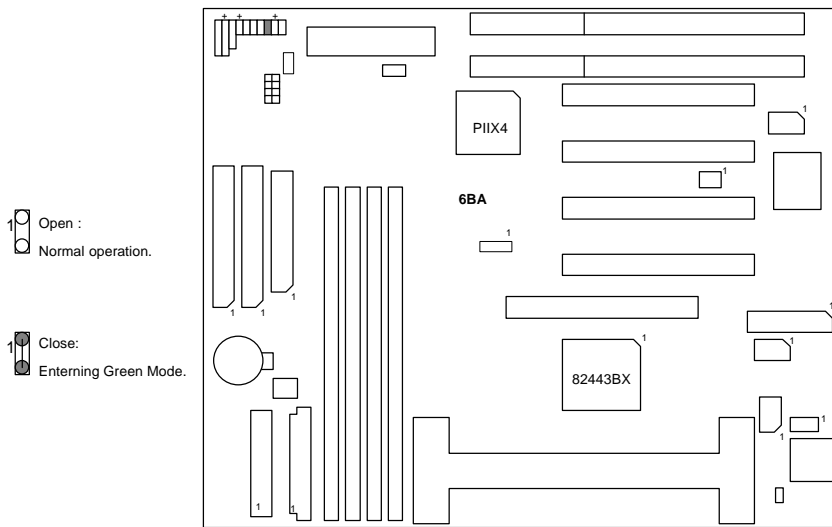
RST : Reset Switch



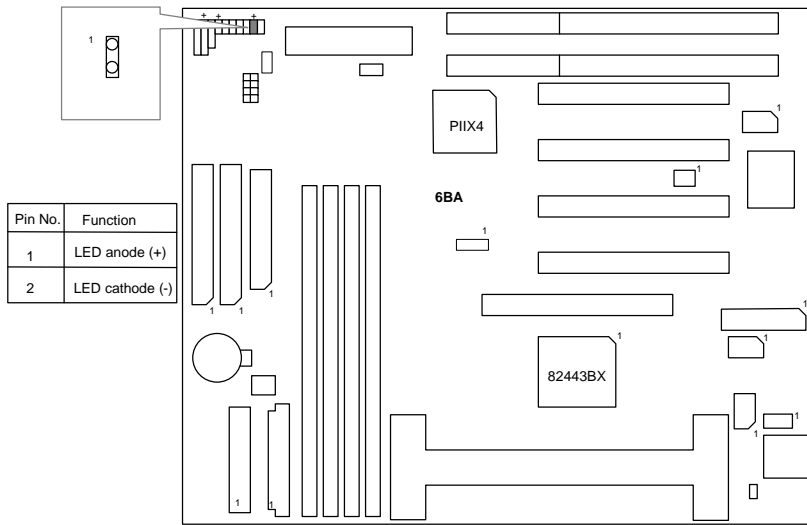
GD : Green Function LED



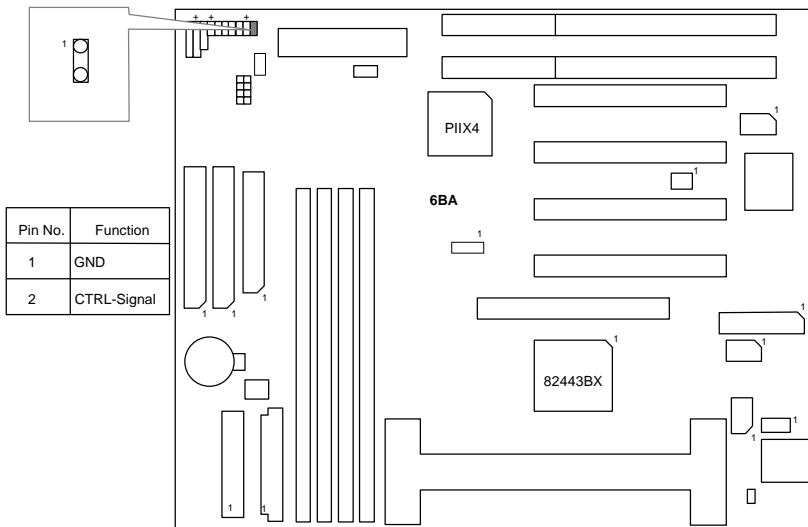
GN : Green Function Switch



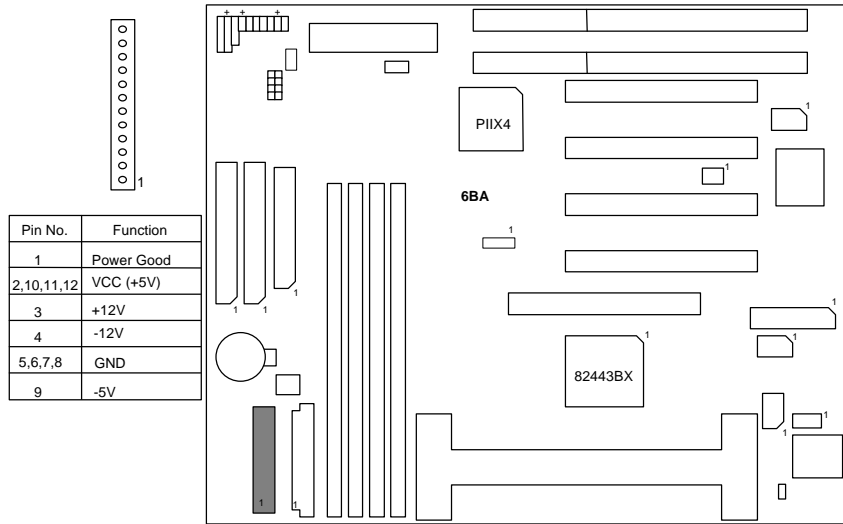
HD : IDE Hard Disk Active LED



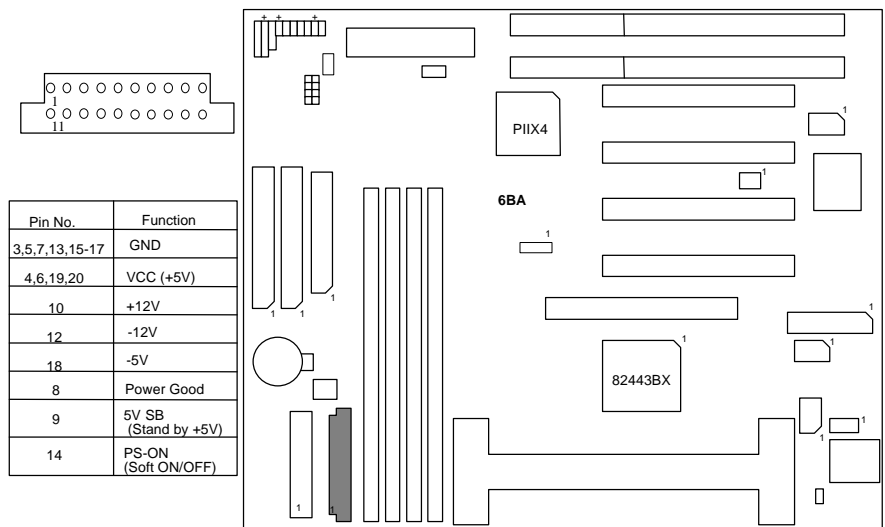
Soft PWR : Soft Power Connector



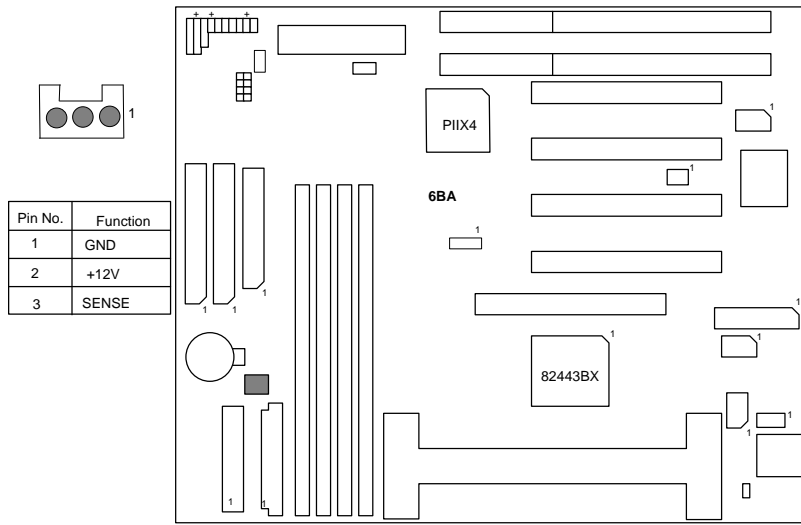
**POWER : P8&P9 Power Connector**



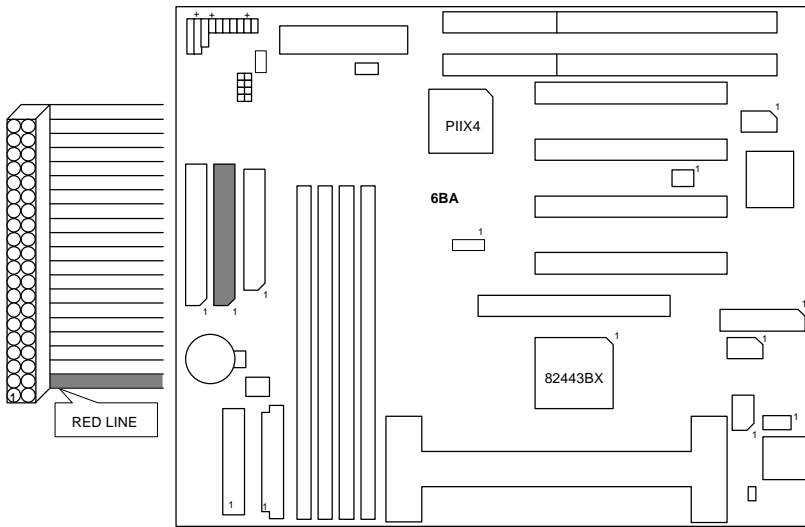
**ATX POWER : ATX POWER Connector**



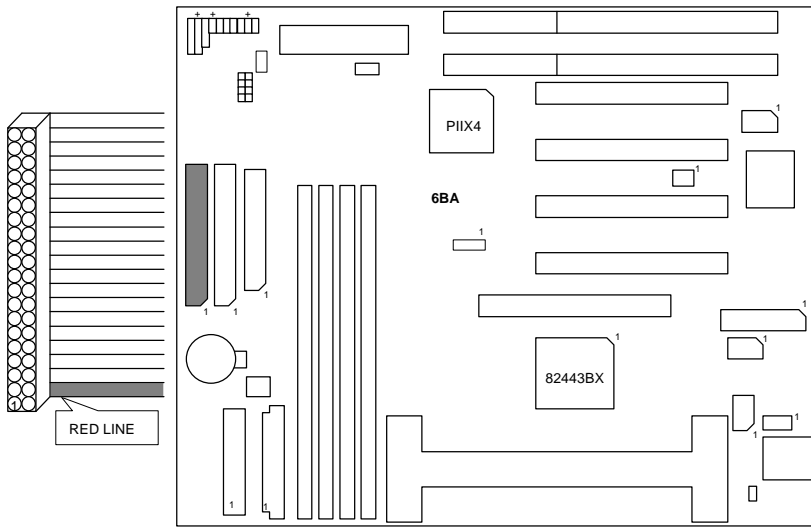
FAN PWR : CPU Cooling Fan Power Connector



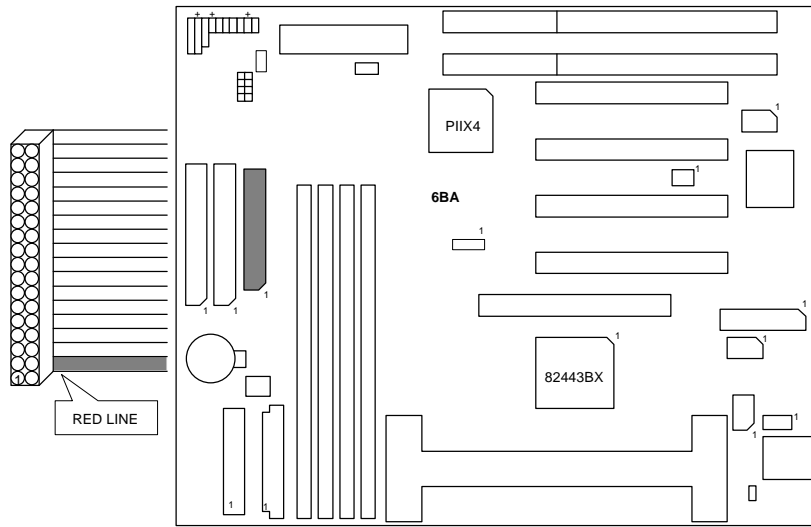
IDE1: Primary IDE port



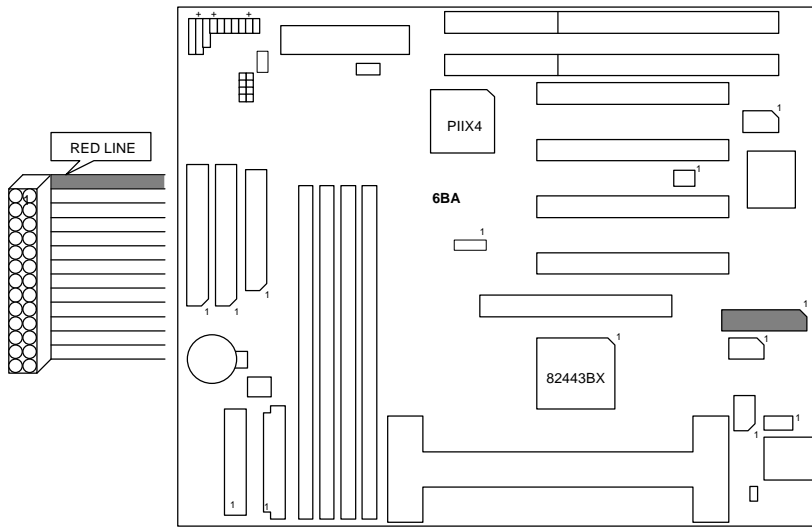
IDE2: Secondary IDE port



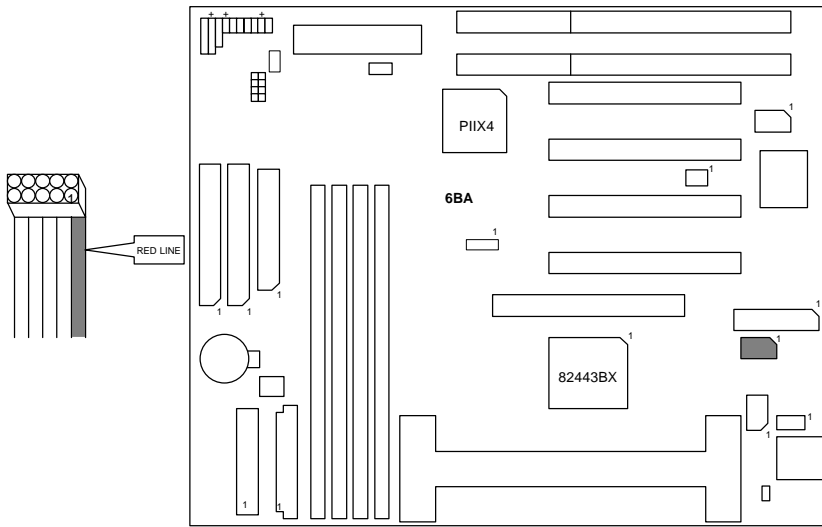
FLOPPY : FLOPPY PORT



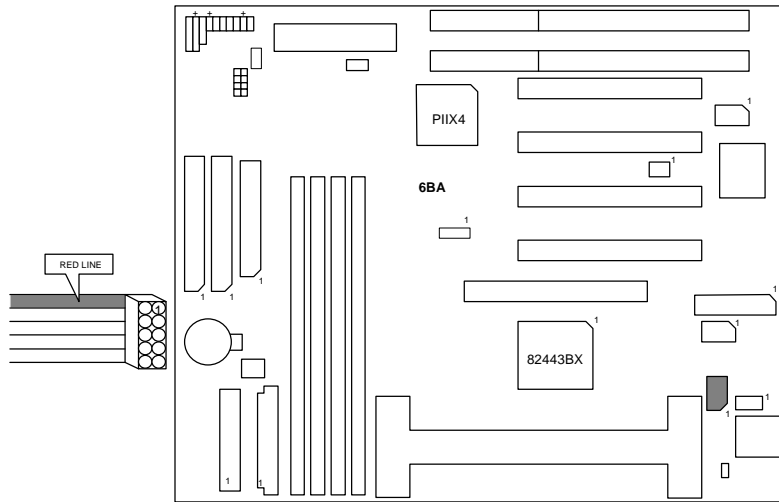
LPT : LPT PORT



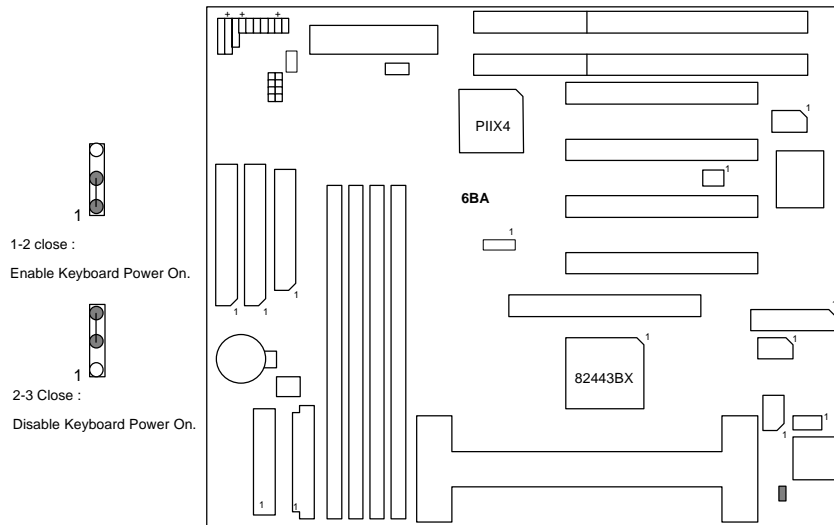
COMB : COM B PORT



COMA : COM A PORT

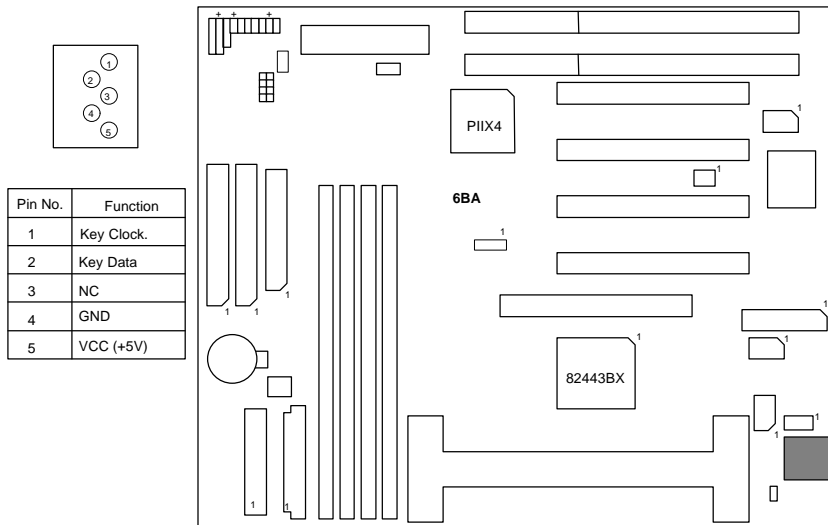


JP1 : Keyboard Power On (for ATX Power Supply only)

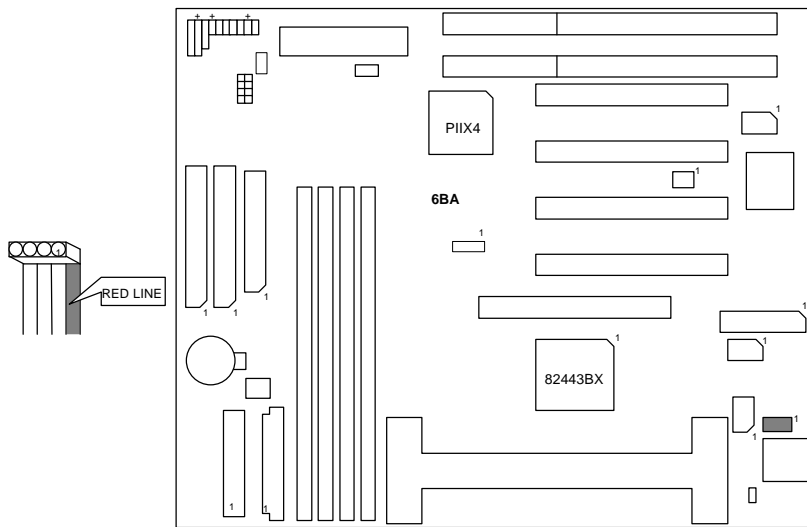




K.B : Keyboard Connector

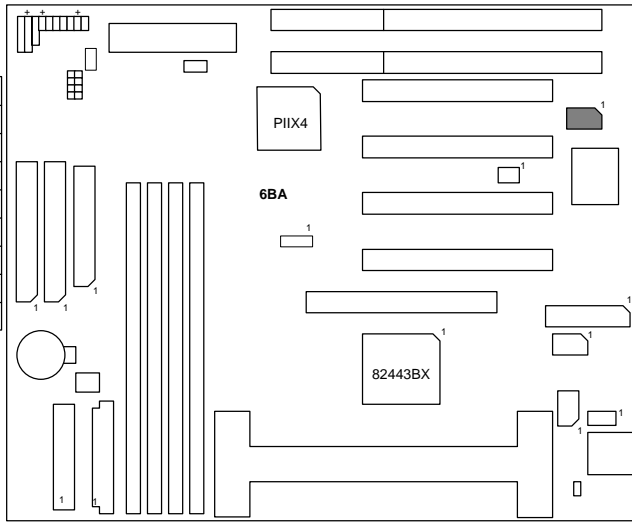


J4 : PS/2 MOUSE



USB : USB Port

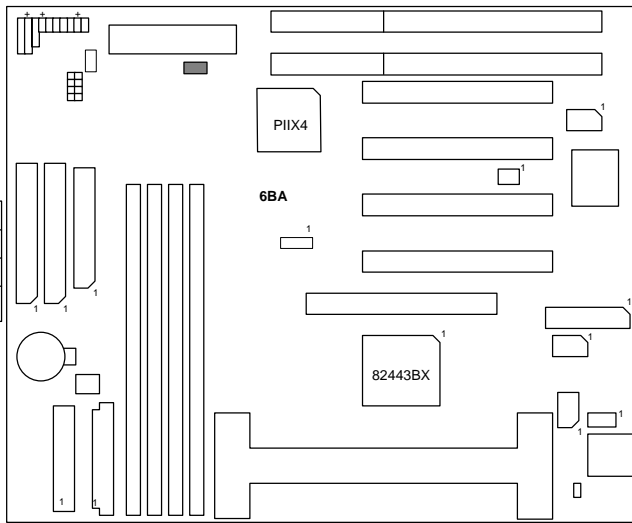
Pin No.	Function
1	VCC
2	USBD0-
3	USBD0+
4	GND
5	VCC
6	USBD1-
7	USBD1+
8	GND



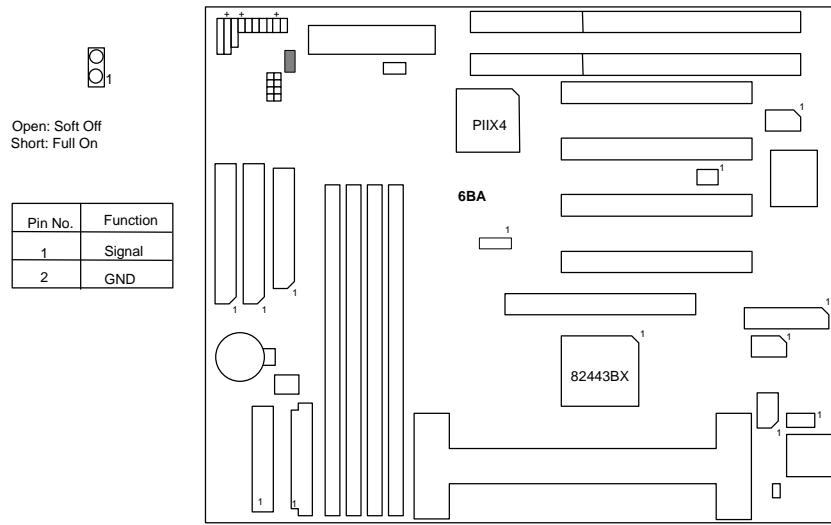
J11 : Wake on Lan  
(for ATX Power Supply only)



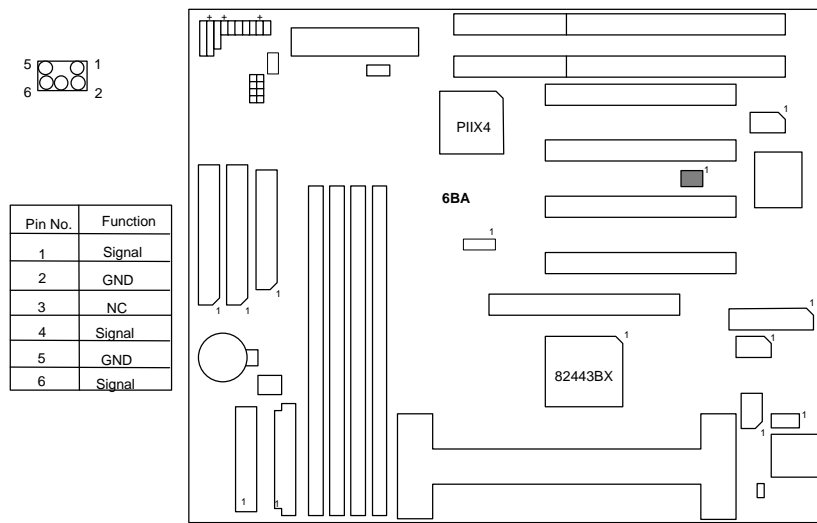
Pin No.	Function
1	+5V SB
2	GND
3	Signal



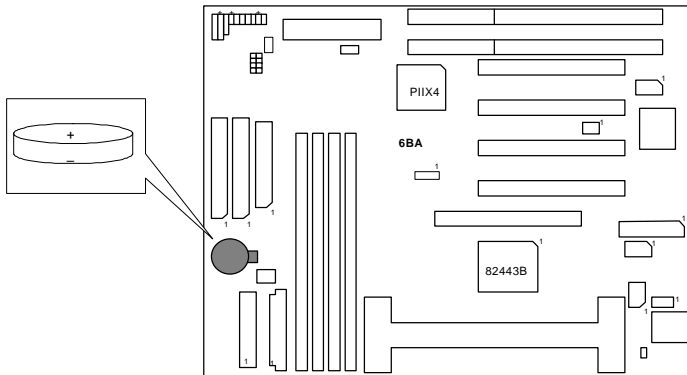
J12 : ATX Power Control Selection



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



**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  
CHIPSET FEATURES SETUP  
AWARD SOFTWARE, INC.

EDO CASx# MA Wait State	: 1	Current CPU Temperature	: 39 °C J102 °C K
EDO RASx# Wait State	: 1	Current CPUFAN Speed	: 5152 RPM
SDRAM CAS latency Time	: 2	Current CPUVC <sub>core A</sub>	: 2.83 V
DRAM Data Integrity Mode	: Non-ECC	Current CPUVC <sub>core B</sub>	: 1.50 V
System BIOS Cacheable	: Enabled	Current +3.3 V	: 3.53 V
Video BIOS Cacheable	: Enabled	Current +5 V	: 4.99 V
Video RAM Cacheable	: Disabled	Current +12 V	: 12.28 V
16 Bit I/O Recovery Time	: 1	Current - 12 V	: -11.81 V
Memory Hole At 15M-16M	: Disabled	Current - 5 V	: -5.04 V
Delayed Transaction	: Disabled	Current Battery Life	: OK
Clock Spread Spectrum	: Disabled		
Slow Down CPU Duty Cycle	: Normal		
Alarm When CPU Overheat	: Disabled	ESC : Quit	↑ ↓ ← → : Select Item
CPU Temperature Select	: 75 °C J167 °C K	F1 : Help	PU/PD/+/- : Modify
CPUFan Control	: Enabled	F5 : Old Values (Shift)F2	: Color
*CPUFan Fail Alarm	: Disabled	F7 : Load Performance Defaults	

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 (32x4)MB SDRAM (LGS GM72V661641CT7J)
- CACHE SIZE 512 KB included in CPU
- DISPLAY GA-601 AGP Display Card (4MB SGRAM)
- STORAGE Onboard IDE (Seagate ST36530A)
- 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)	400MHz(100x4)
<b>Winbench98</b>		
CPU mark32	943	1080
FPU Winmark	1800	2060
Business Disk	2170	2190
Hi-End Disk	5810	5850
Business Graphics	203	223
Hi-End Graphics	218	241
<b>Winstone98</b>		
Business	35.3	37.3
Hi-End	39.7	42.8