6BXS

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 JP7): Your ATX power supply must support larger than 600 mA 5V Stand-By current.**

5. **Support 3 steps ACPI LED.**

6. **Support LDCM â**

Pentium â II Processor MAINBOARD

REV. 1.0 Third Edition
R-01-03-080604

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.

May 7, 1998 Taipei, Taiwan

I. Quick Installation Guide :

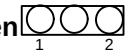
CPU SPEED SETUP

The system bus speed can be selectable between 66.6MHz and 100MHz. The user can select the system bus speed (JP5) 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

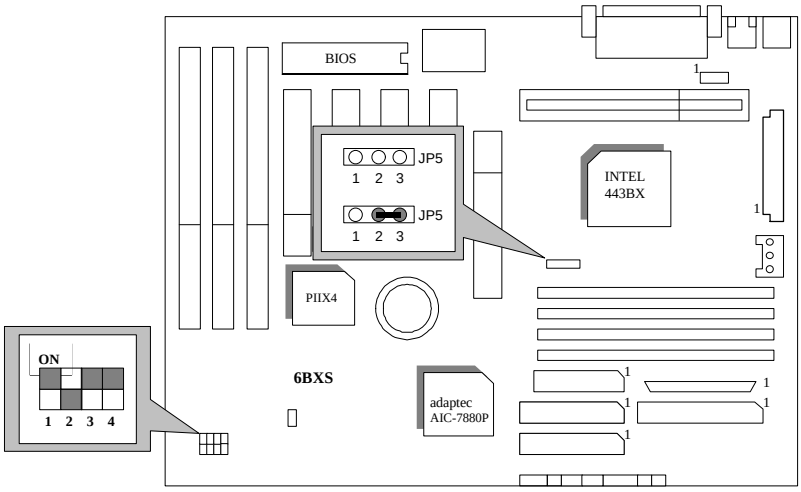
JP5 (Select the system speed between 66.6MHz and 100MHz)

1-2 Close 	**Set system speed to 66MHz -** system always run at 66MHz FSB (Front Side Bus).
2-3 Close 	**Set system speed to Auto -** auto detect system speed (66/ 100MHz FSB)
1-2-3 Open 	**Set system speed to 100MHz -** system always run at 100MHz FSB (Front Side Bus).

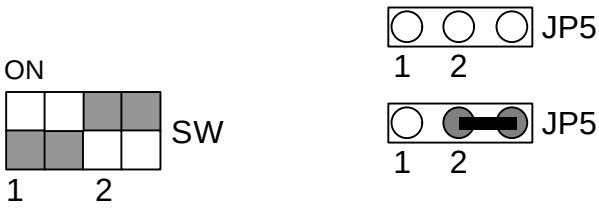
There are two ways to set system speed

A. 66MHz forced (JP5 1-2 short) or Auto detect (2-3 short)
B. 100MHz forced (JP5 1-2-3 open) or Auto detect (2-3 short)

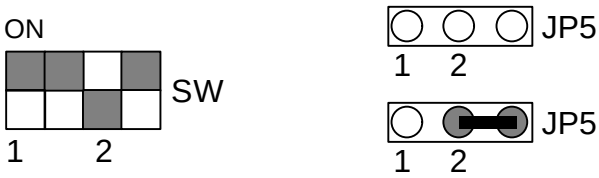
1. Pentium® II 300 / 100MHz FSB



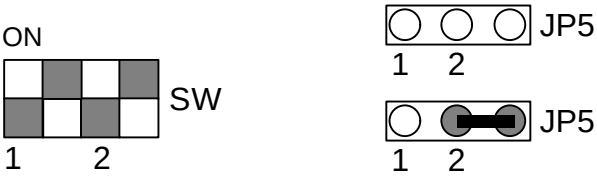
2. Pentium® II 350 / 100 MHz FSB



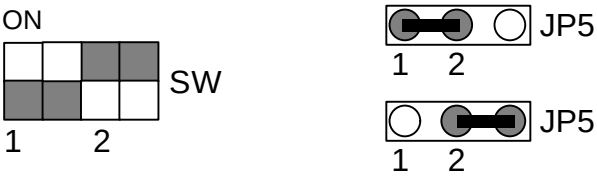
3. Pentium® II 400 / 100 MHz FSB



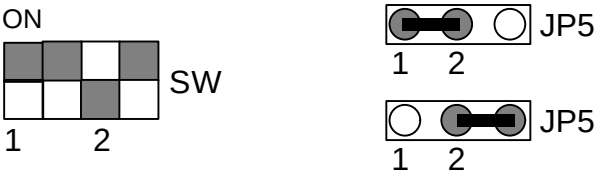
4. Pentium® II 450 / 100 MHz FSB



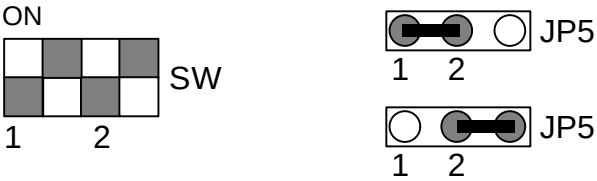
5. Pentium® II 233 / 66 MHz FSB



6. Pentium® II 266 / 66 MHz FSB

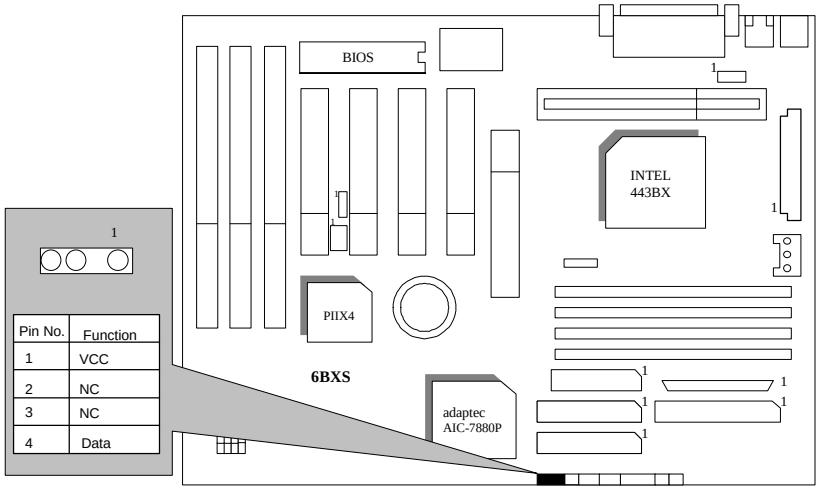


7. Pentium® II 300 / 66 MHz FSB

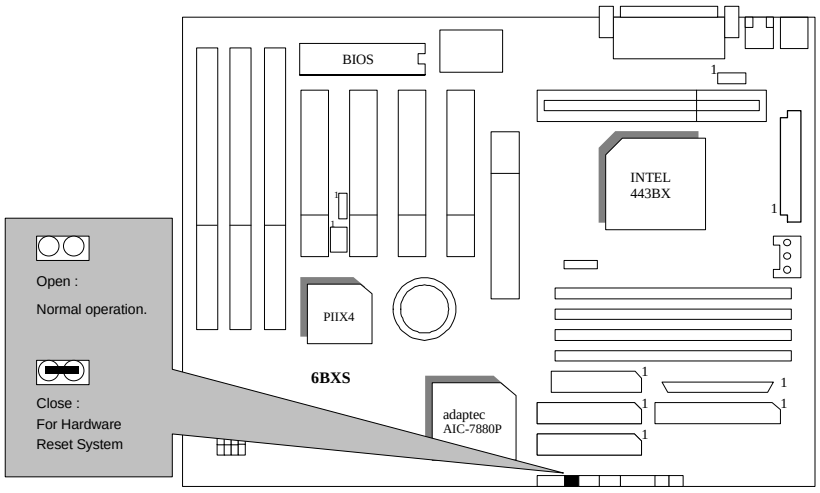


II. Jumper setting :

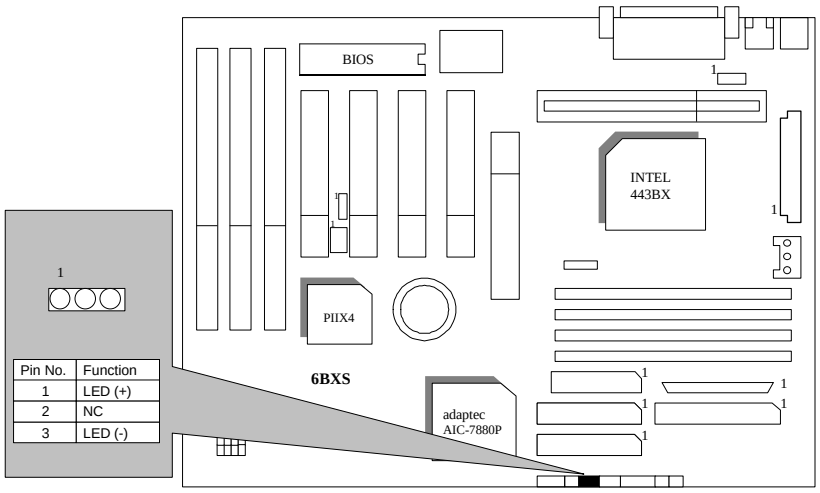
SPK : Speaker Connector



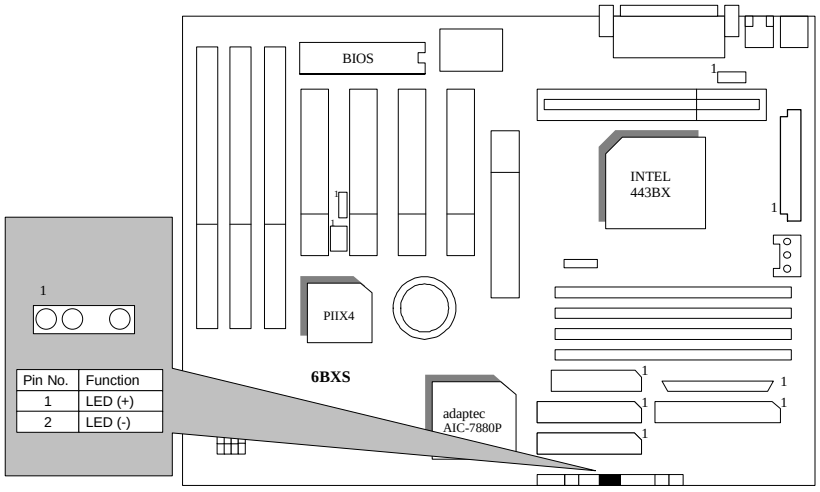
RST : Reset Switch



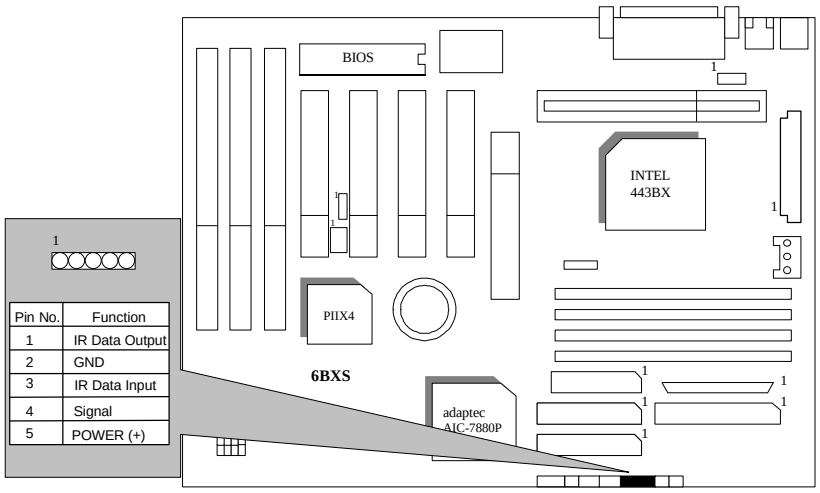
PWR : Power LED Connector



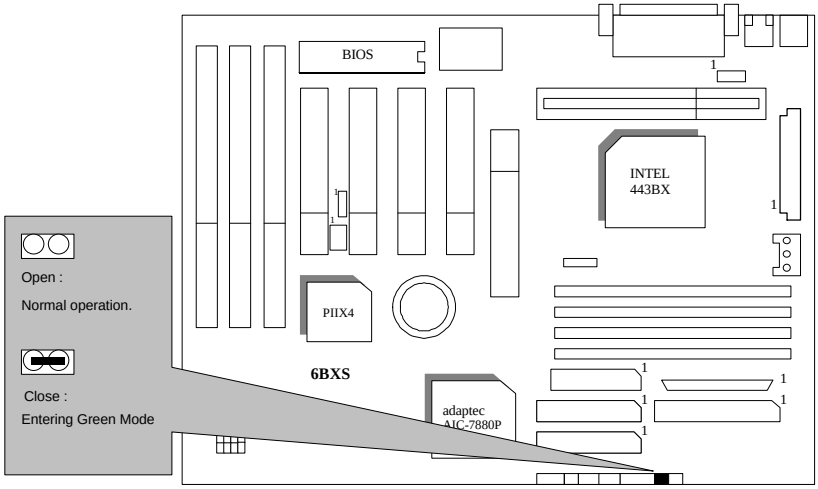
HD : IDE Hard Disk Active LED



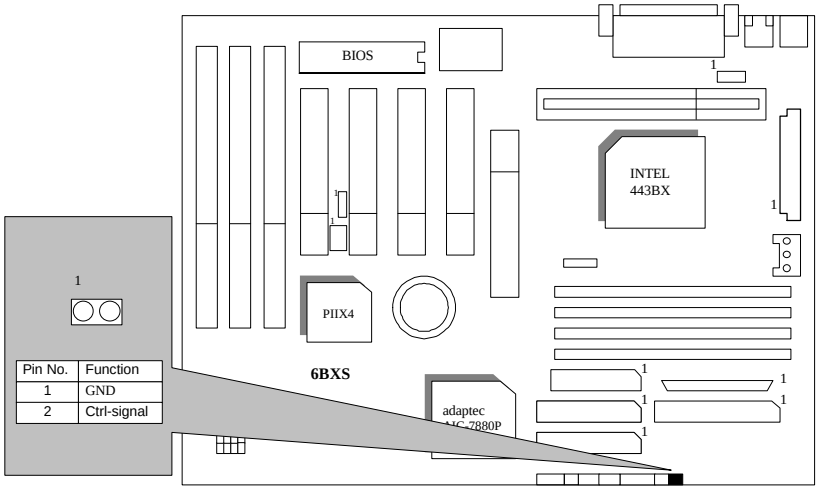
IR : Infrared Connector (Optional)



GN : Green Function Switch

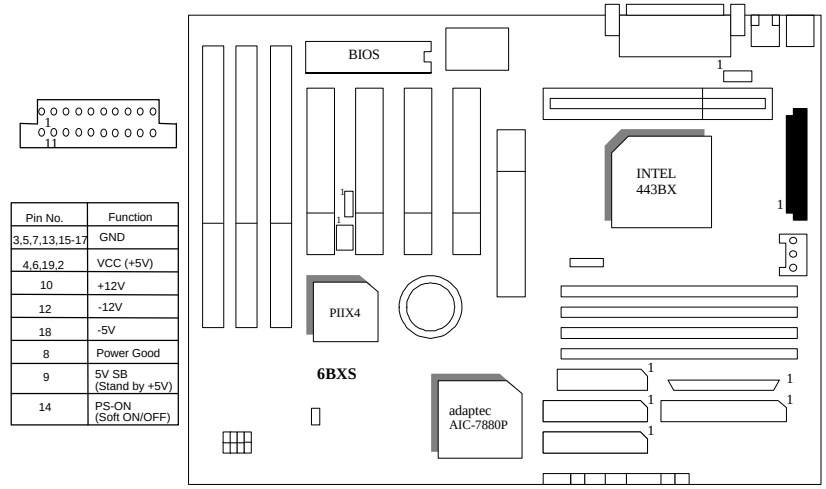


SOFT PWR : Soft Power Connector



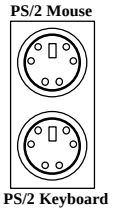
Pin No.	Function
1	GND
2	Ctrl-signal

ATX POWER : ATX Power Connector

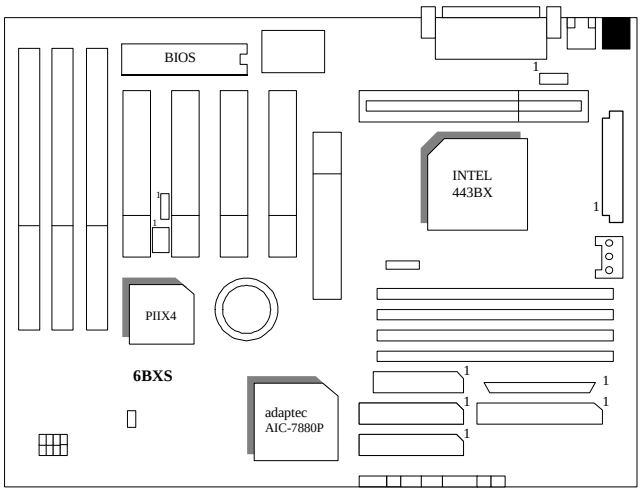


Pin No.	Function
3,5,7,13,15-17	GND
4,6,19,2	VCC (+5V)
10	+12V
12	-12V
18	-5V
8	Power Good
9	5V SB (Stand by +5V)
14	PS-ON (Soft ON/OFF)

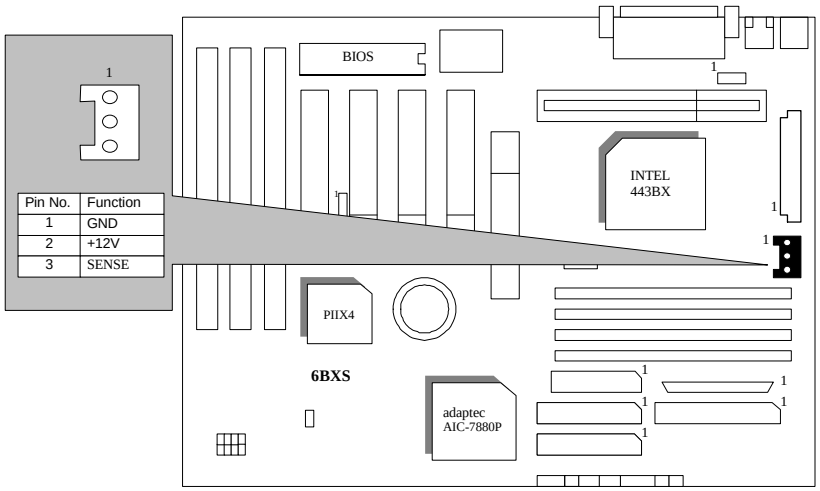
PS/2 Mouse / Keyboard Connector



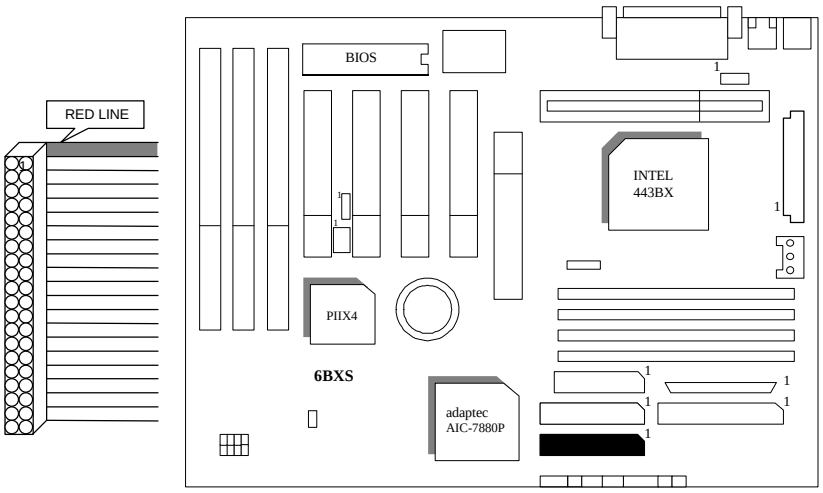
PS/2 Mouse/Keyboard	
Pin No.	Function
1	Data
2	NC
3	GND
4	VCC (+5V)
5	Clock
6	NC



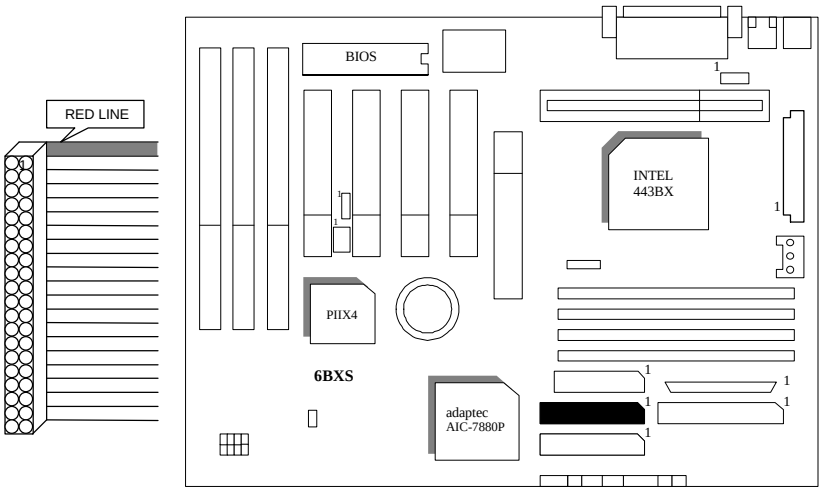
PWR FAN : CPU Cooling Fan Power Connector



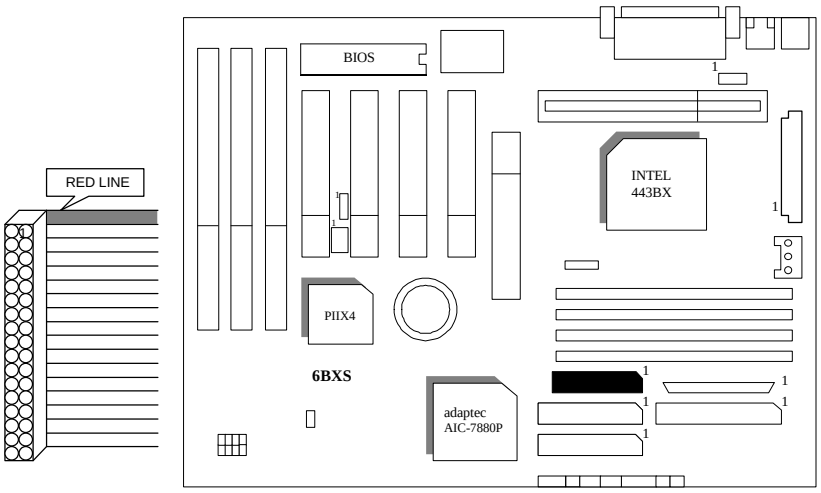
IDE1: For Primary IDE port



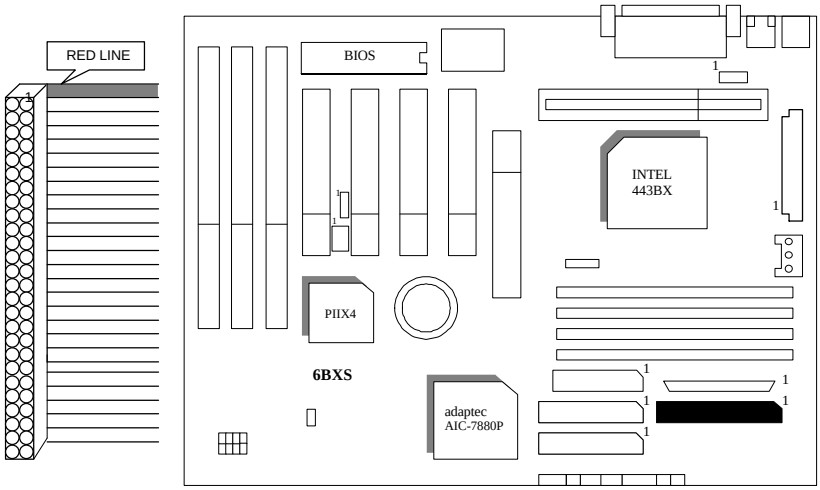
IDE2: For Secondary IDE port



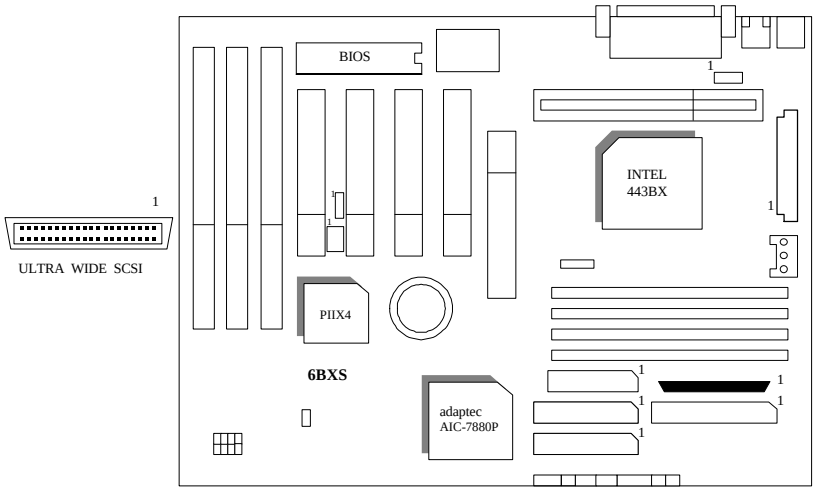
J7 : FLOPPY PORT



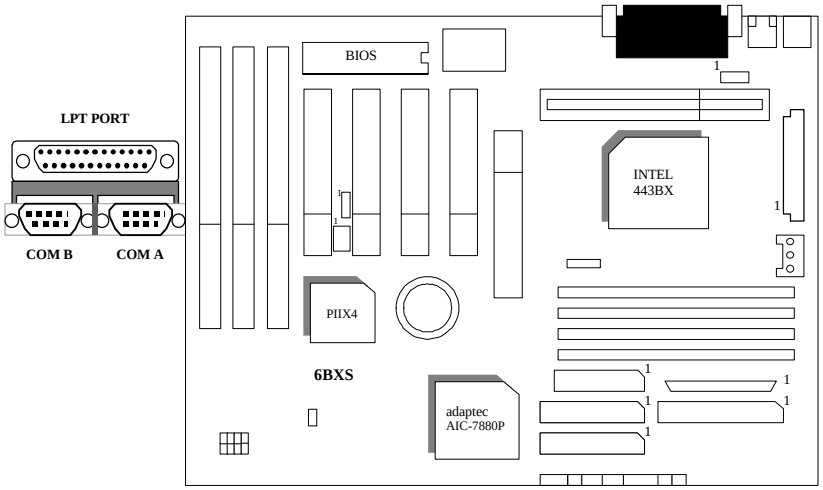
ULTRA SCSI : ON BOARD ULTRA SCSI PORT



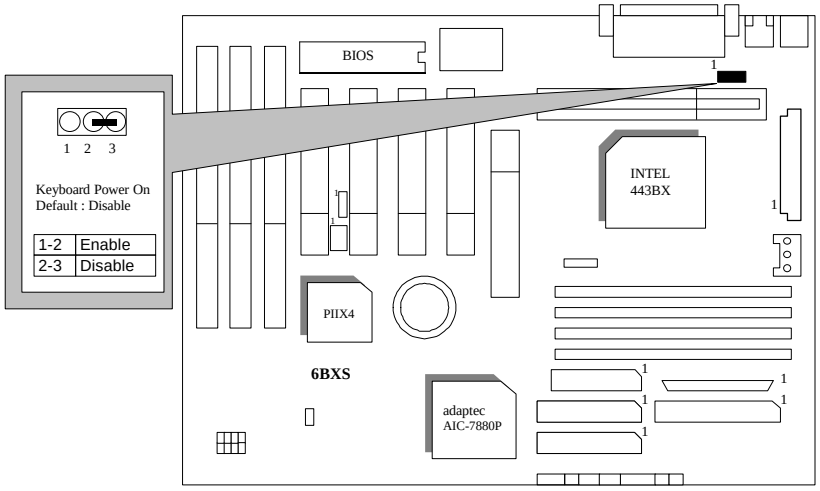
ULTRA WIDE SCSI : ON BOARD ULTRA WIDE SCSI PORT



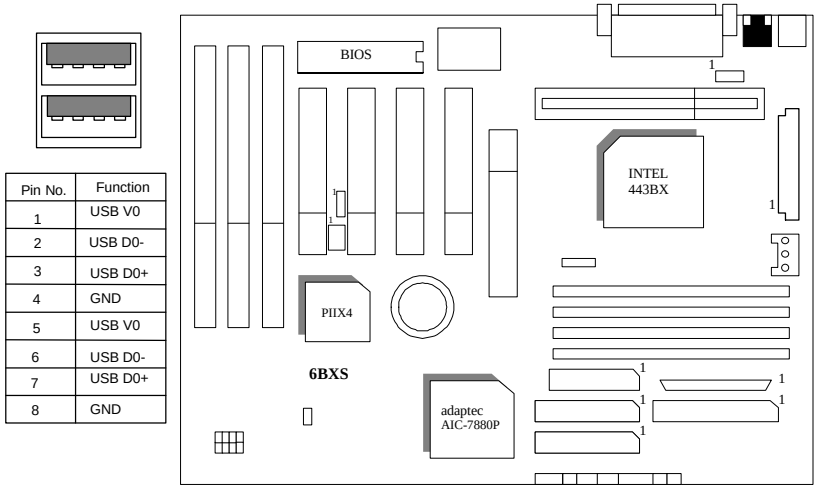
LPT PORT / COM A / COM B



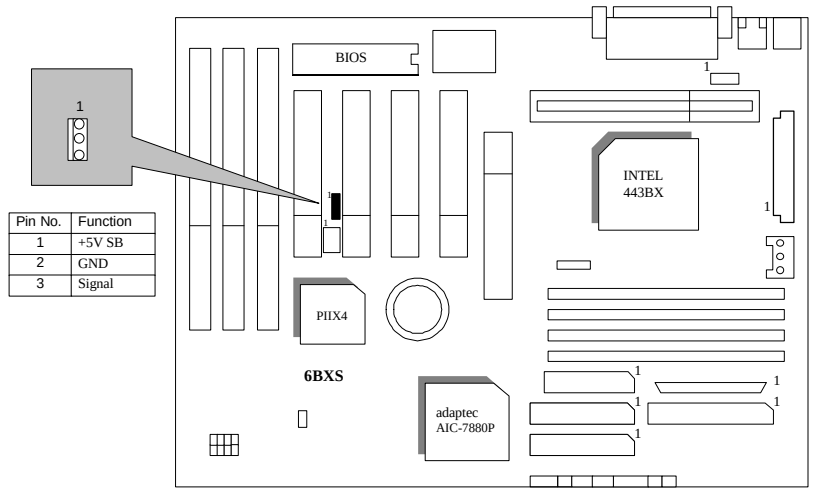
JP1 : Keyboard Power On



CN1: USB Port

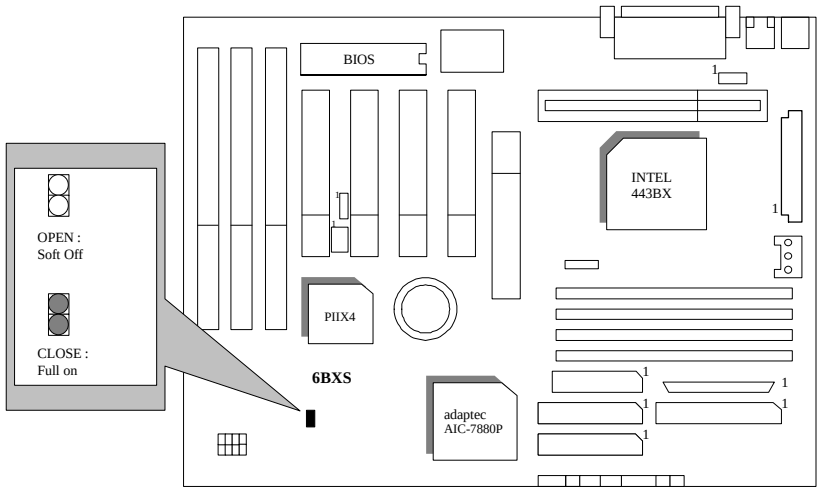


JP7: Wake on LAN

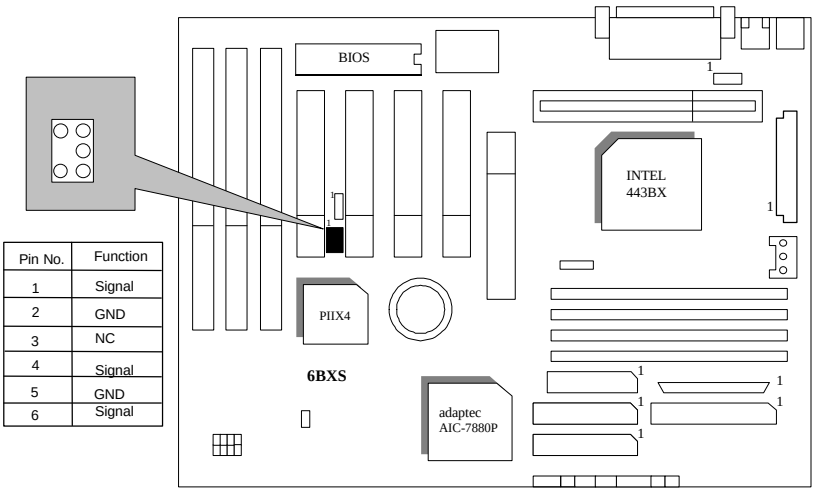


Pin No.	Function
1	+5V SB
2	GND
3	Signal

J13: ATX Power Control Selection

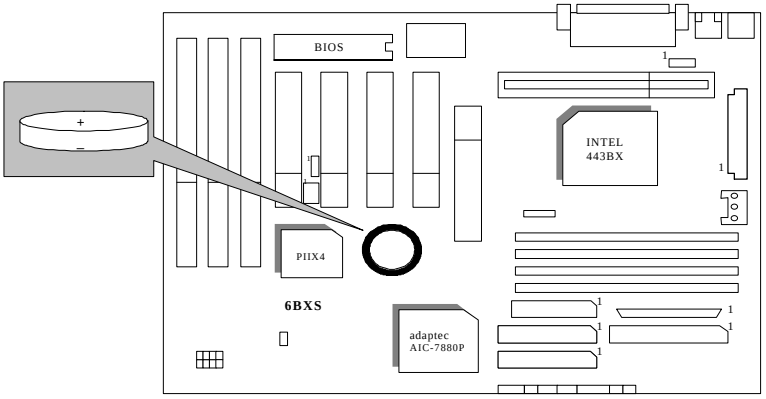


SB-LINK : For PCI Audio / Sound Card use only



Pin No.	Function
1	Signal
2	GND
3	NC
4	Signal
5	GND
6	Signal

BAT1:For Battery

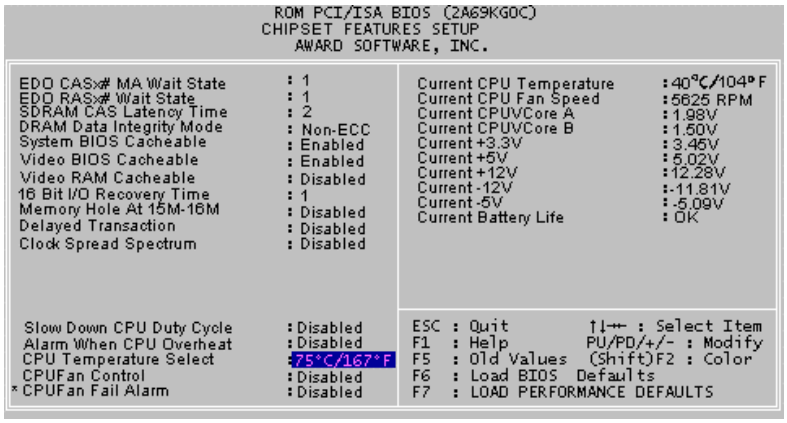


- Danger of explosion if battery is incorrectly replaced.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to the manufacturer's instructions.

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.



** Each value of items as above depends on your hardware configuration : CPU , SDRAM , Cards , etc.

Please modify each value of items If your system does not 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 (32x4)MB SDRAM (SEC KM48S2020CT-G8)
- CACHE SIZE 512 KB included in CPU
- DISPLAY GA-601 AGP Display Card (4MB SGRAM)
- STORAGE Onboard Ultra Wide SCSI (Seagate ST34501W)
- O.S. Windows NT™ 4.0
- DRIVER Display Driver at 1024 x 768 x 64k colors x 75Hz.
  Adaptec AIC-7880 SCSI Driver

Processor	Intel Pentium® II	
	300MHz(100x3)	350MHz(100x3.5)
Winbench98		
CPU mark32	809	944
FPU Winmark	1550	1800
Business Disk	2560	2610
Hi-End Disk	5790	6000
Business Graphics	176	199
Hi-End Graphics	185	213
Winstone98		
Business	32.8	35.4
Hi-End	36.4	40.1