

6BXDS

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 100~300 mA 5V Stand-By current(rest with keyboard require), 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 JP8):** Your ATX power supply must support larger than 720 mA 5V Stand-By current.
5. **Support 3 steps ACPI LED.**
6. **Support LDCMâ**

Pentiumâ II / Processor MAINBOARD

R-17-01-081021

REV 1.7 First 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.

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Oct 21, 1998 Taipei, Taiwan

I. Quick Installation Guide :

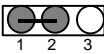

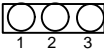
CPU SPEED SETUP

The system bus speed can be selectable between 66.6MHz and 100MHz. The user can select the system bus speed (JP6) 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

⚠ **JP6** (Select the system speed between 66.6MHz and 100MHz)

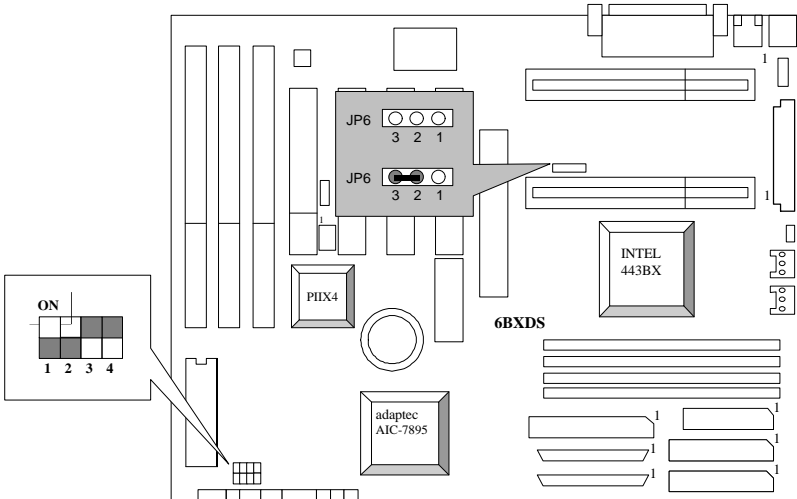
1-2 Close 	Set system speed to 66MHz - system always run at 66MHz FSB (Front Side Bus).
2-3 Close 	Set system speed to Auto - system speed detect automatically (66/ 100MHz FSB).
1-2-3 Open 	Set system speed to 100MHz - system always run at 100MHz FSB (Front Side Bus).

⚠ If you use single CPU, please install to CPU2 slot.

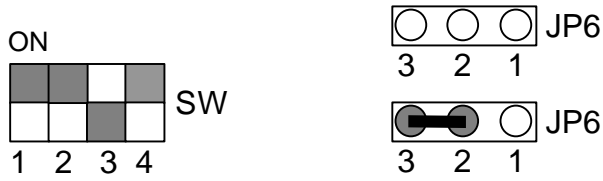
● There are two ways to set system speed

- A. 66MHz forced (JP6 1-2 short) or Auto detect (2-3 short)
- B. 100MHz forced (JP6 1-2-3 open) or Auto detect (2-3 short)

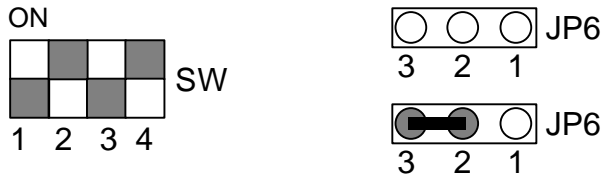
1. Pentium® II 350 / 100MHz FSB



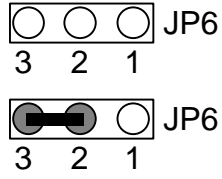
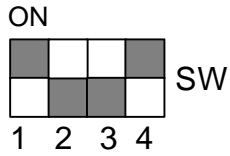
2. Pentium® II 400 / 100 MHz FSB



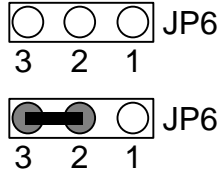
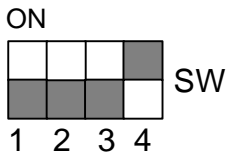
3. Pentium® II 450 / 100 MHz FSB



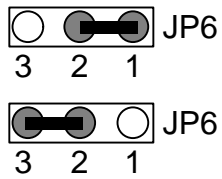
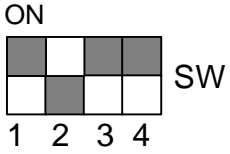
4. Pentium® II 500 / 100 MHz FSB



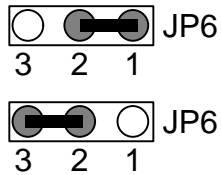
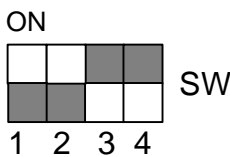
5. Pentium® II 550 / 100 MHz FSB



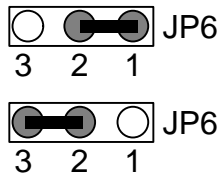
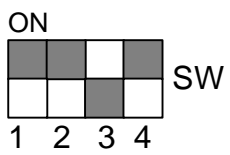
6. Pentium® II 200/ 66 MHz FSB



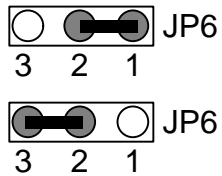
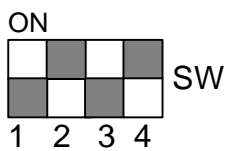
7. Pentium® II 233 / 66 MHz FSB



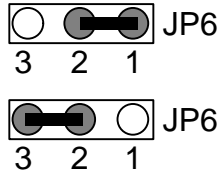
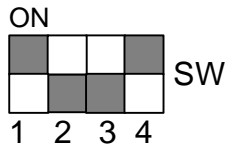
8. Pentium® II 266 / 66 MHz FSB



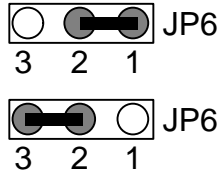
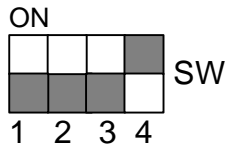
9. Pentium® II 300/ 66 MHz FSB



10. Pentium® II 333 / 66 MHz FSB

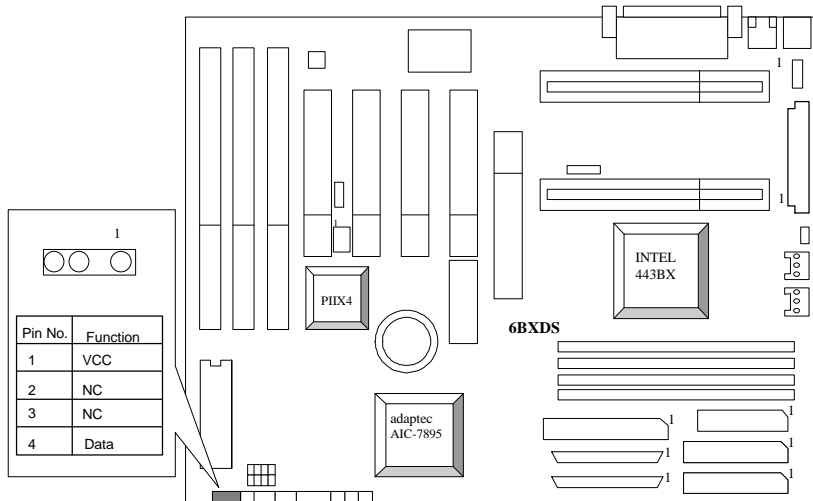


11. Pentium® II 366/ 66 MHz FSB

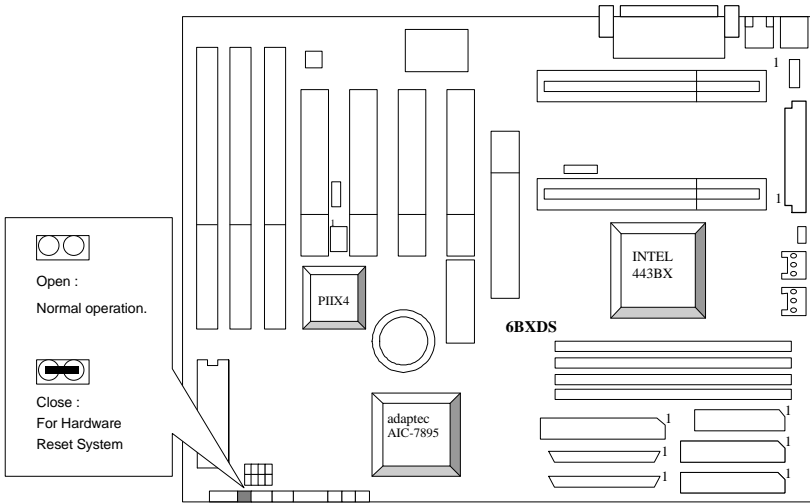


II. Jumper setting :

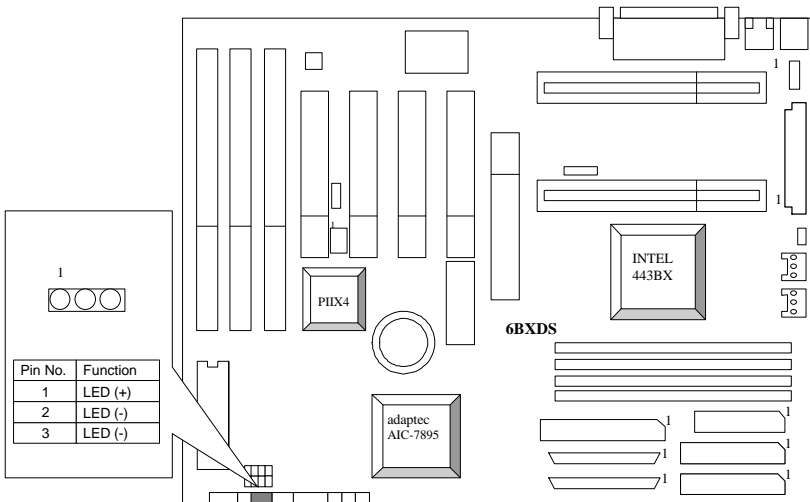
SPK : Speaker Connector



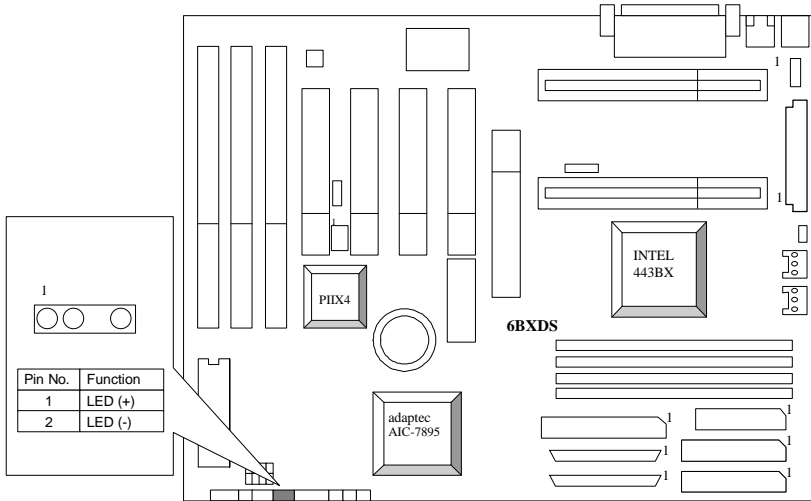
RST : Reset Switch



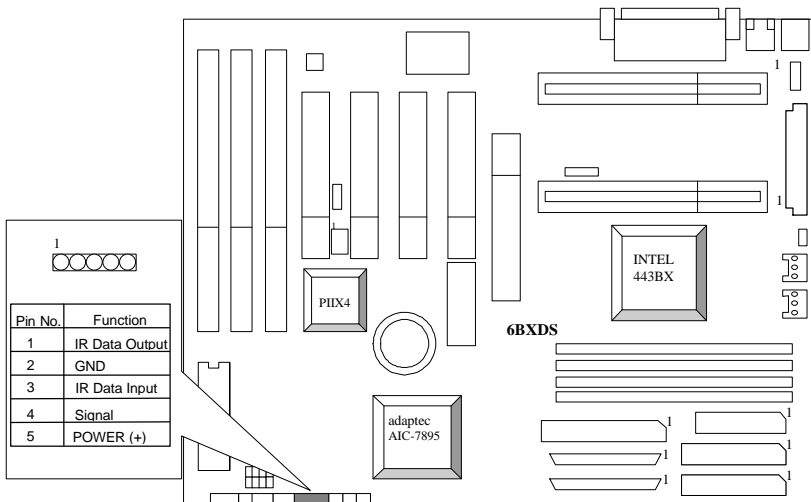
PWR : Power LED Connector



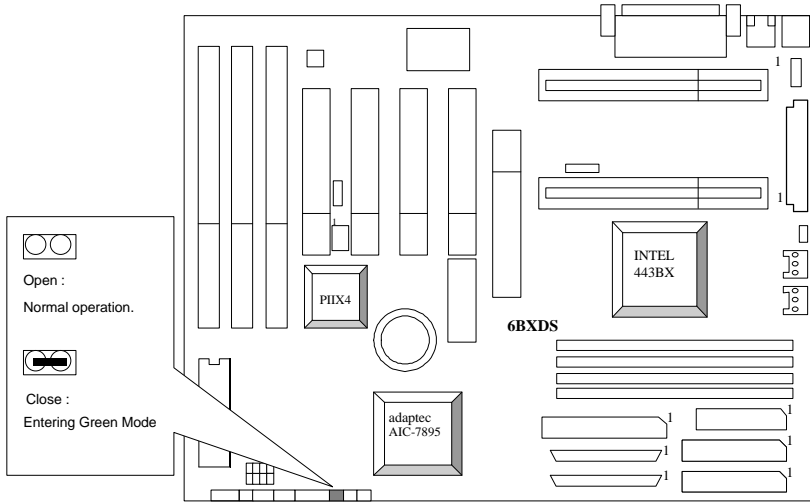
HD : IDE Hard Disk Active LED



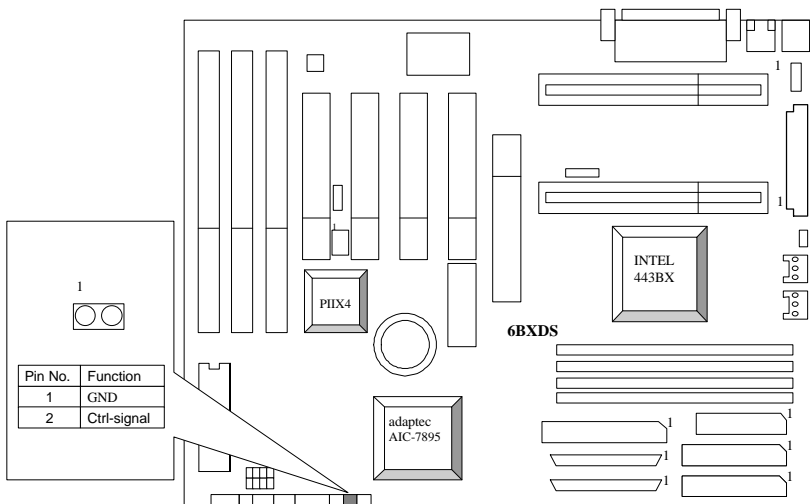
IR : Infrared Connector (Optional)



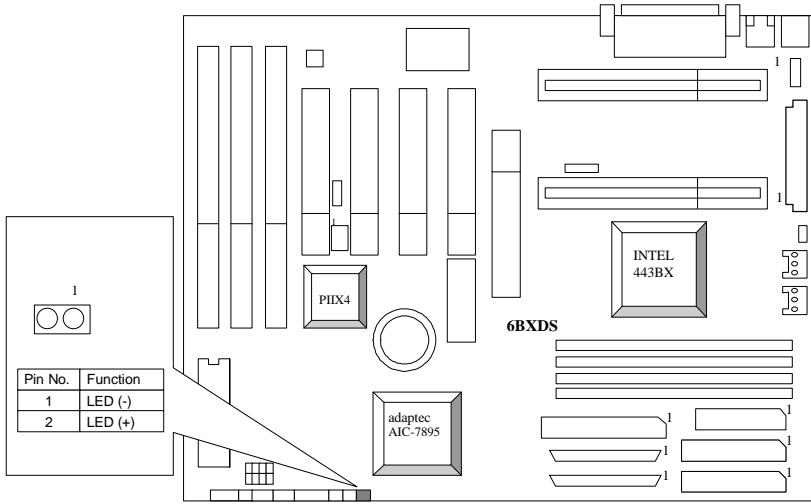
GN : Green Function Switch



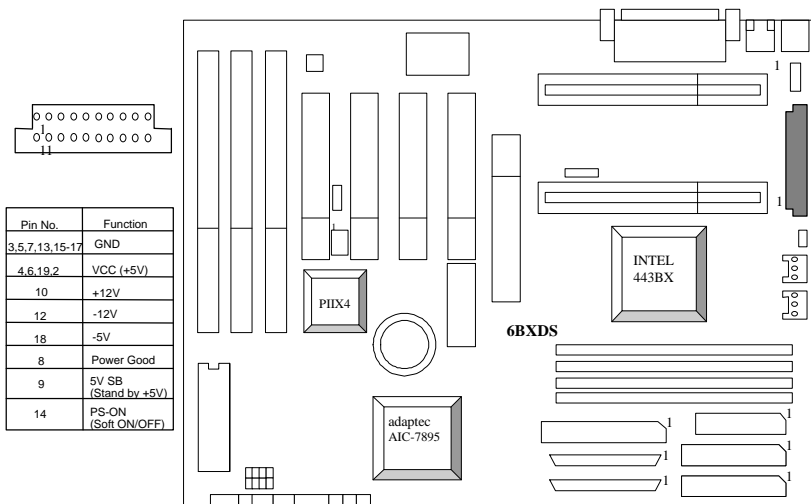
SOFT PWR : Soft Power Connector



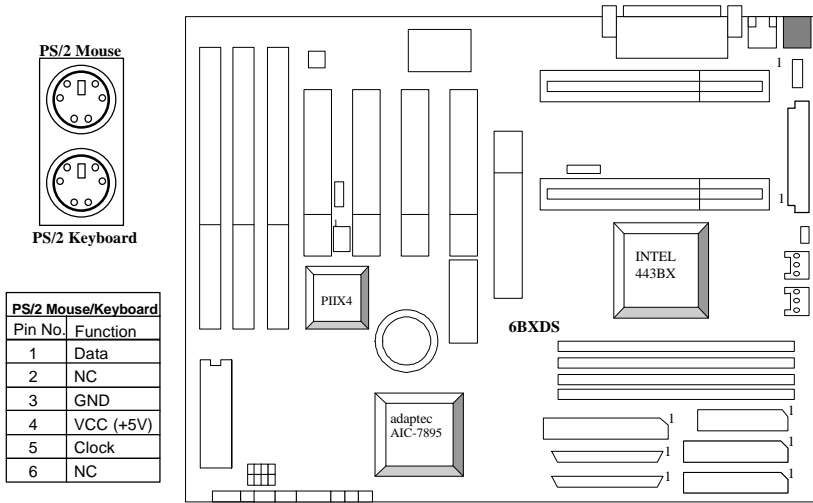
GD : Green Function LED



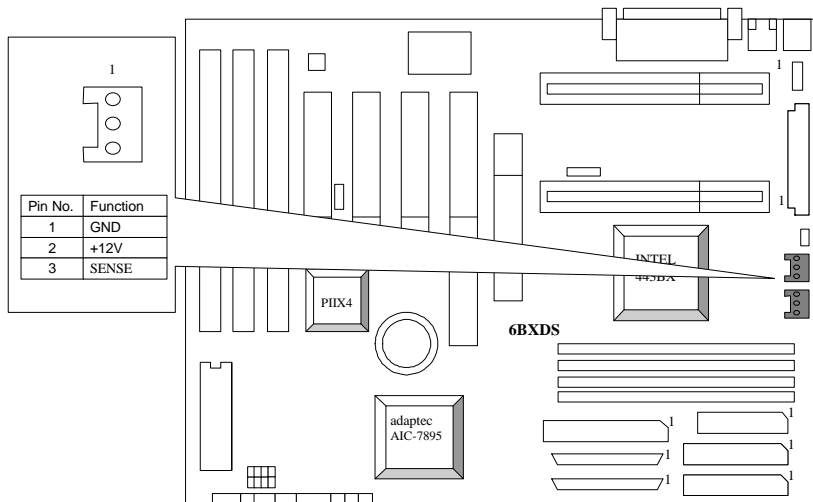
ATX POWER : ATX Power Connector



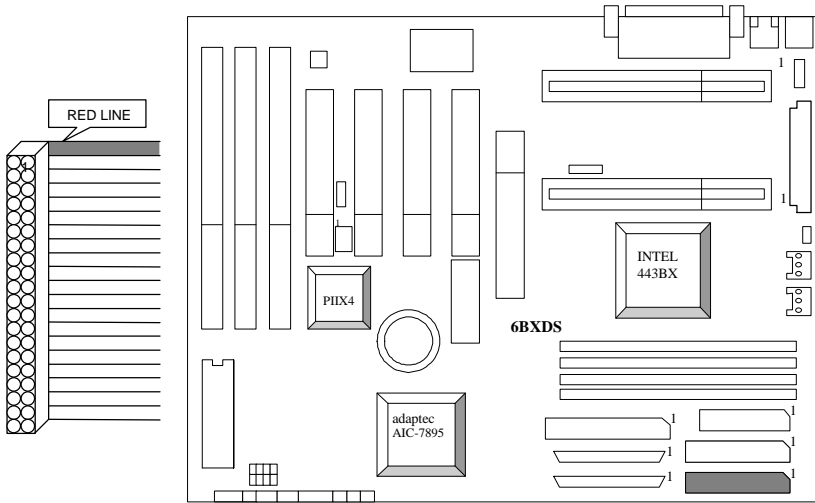
PS/2 Mouse / Keyboard Connector



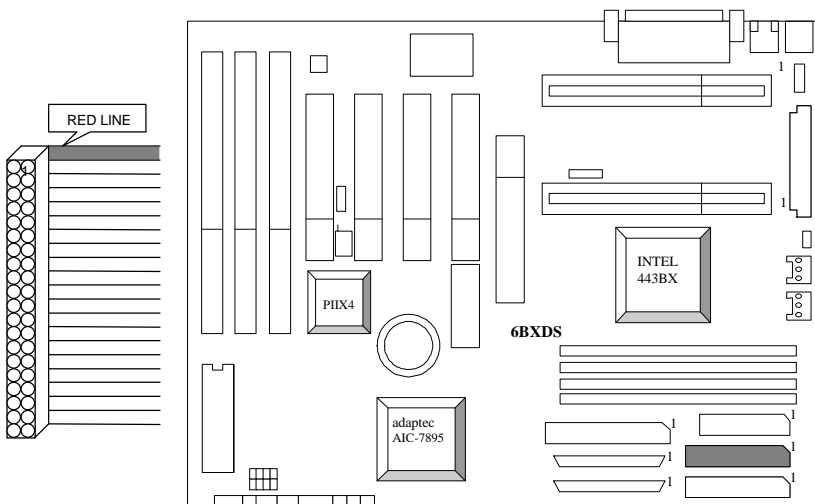
PWR FAN : CPU Cooling Fan Power Connector



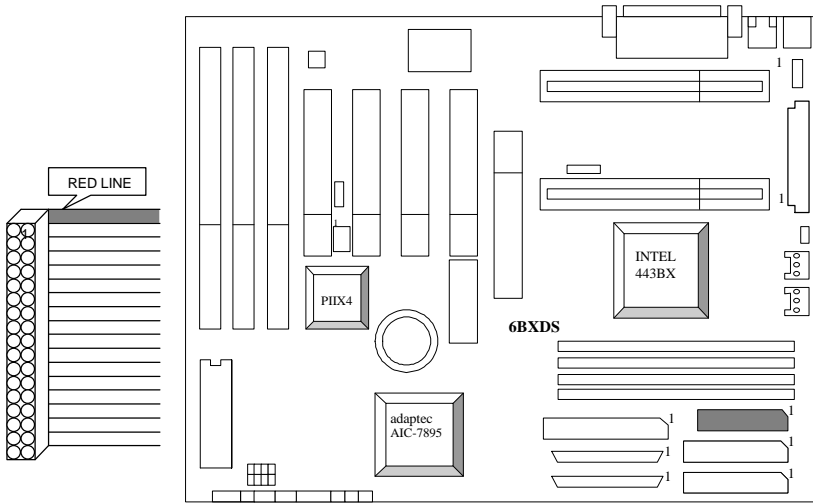
IDE1: For Primary IDE port



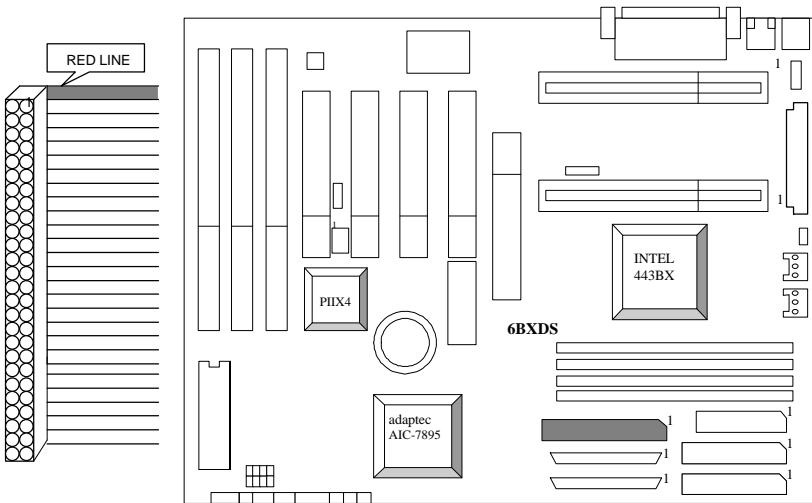
IDE2: For Secondary IDE port



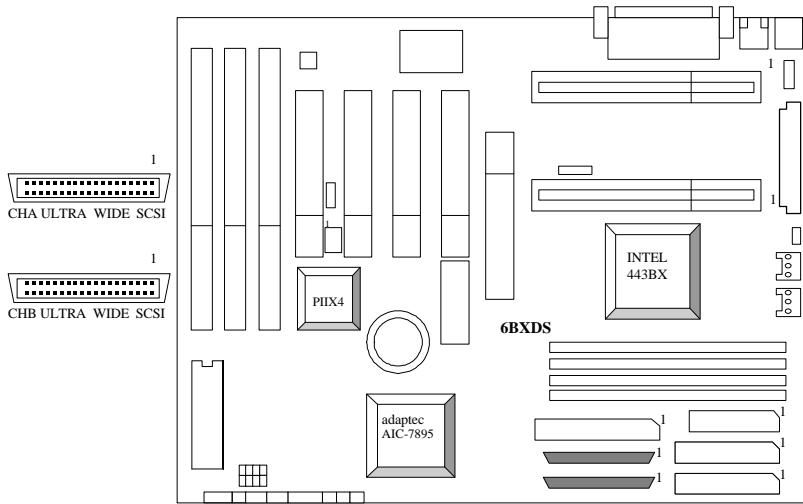
FLOPPY: For FLOPPY PORT



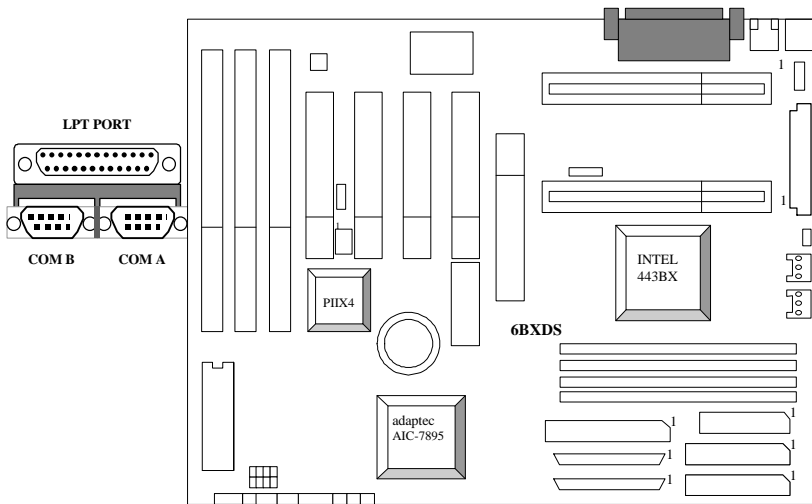
ULTRA SCSI : ON BOARD ULTRA SCSI PORT



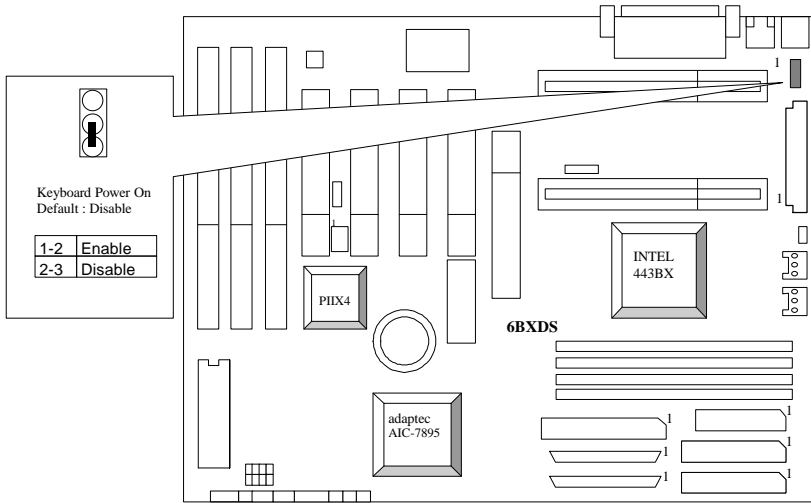
ULTRA WIDE SCSI : ON BOARD ULTRA WIDE SCSI PORT



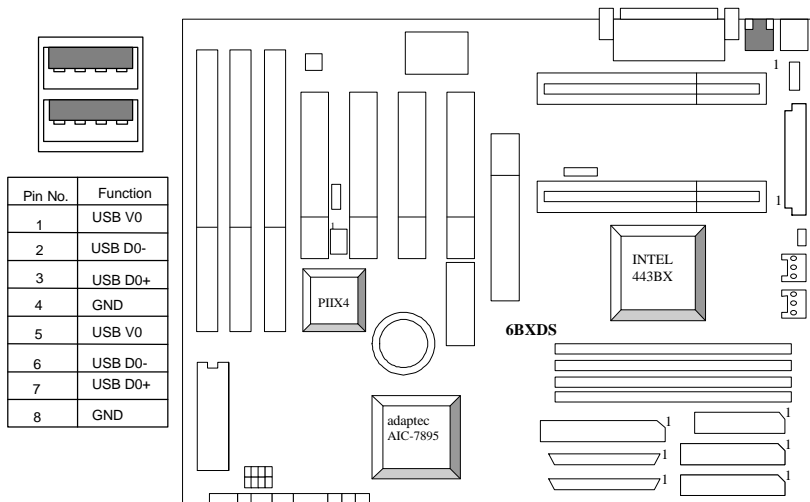
LPT PORT / COM A / COM B



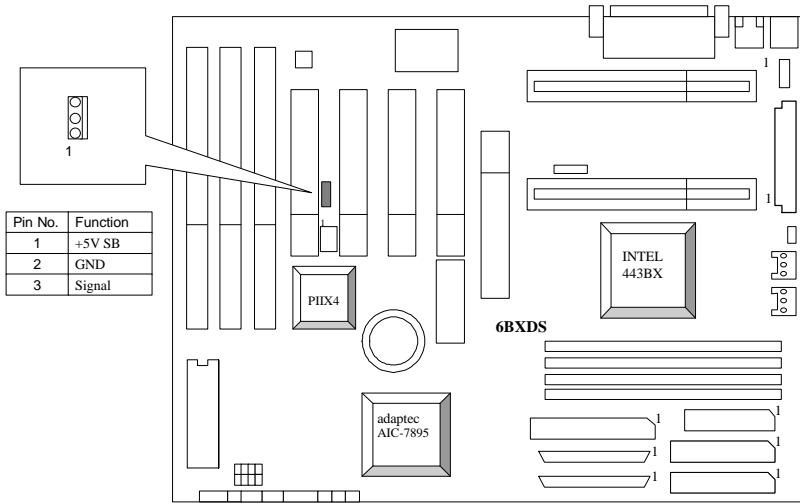
JP1 : Keyboard Power On



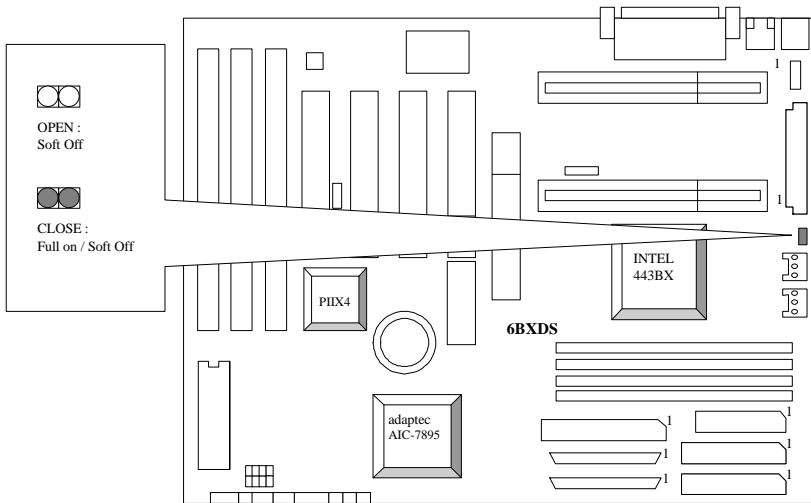
USB: USB Port



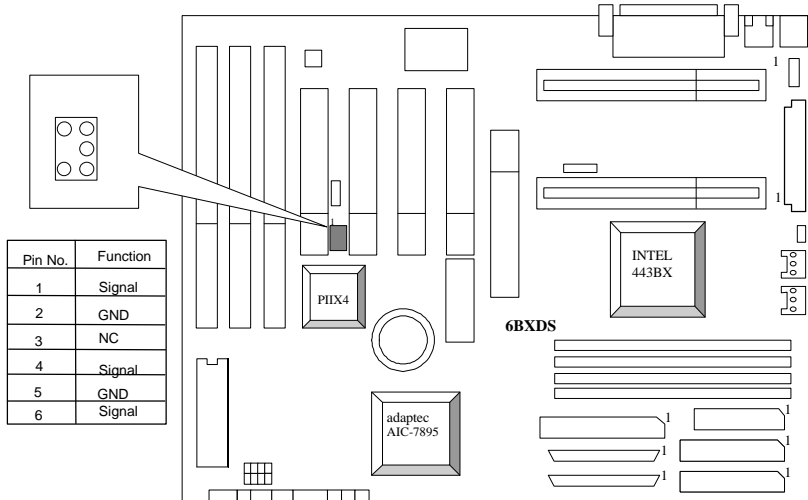
JP8: Wake on LAN



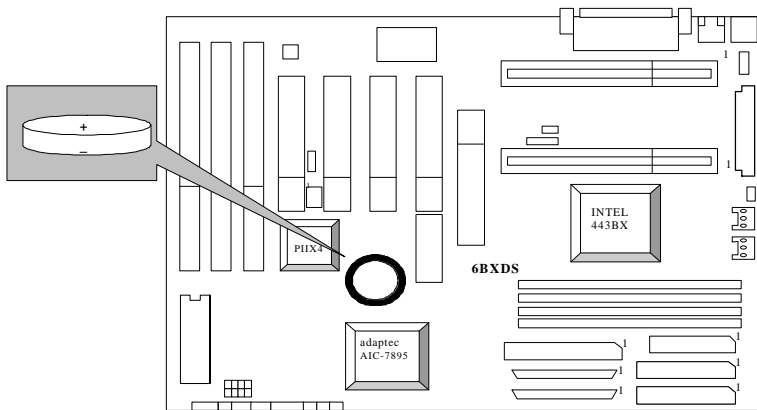
J1: ATX Power Control Selection



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



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 (2A69KG0C) CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.			
EDO CAS# MA Wait State	: 1	Current CPU1 Temperature	: 40°C/104°F
EDO RAS# Wait State	: 1	Current CPU2 Temperature	: 40°C/104°F
SDRAM CAS Latency Time	: 2	Current CPU Fan1 Speed	: 5625 RPM
DRAM Data Integrity Mode	: Non-ECC	Current CPU Fan2 Speed	: 5625 RPM
System BIOS Cacheable	: Enabled	Current CPUVCore A	: 1.98V
Video BIOS Cacheable	: Enabled	Current CPUVCore B	: 1.98V
Video RAM Cacheable	: Disabled	Current +3.3V	: 3.45V
16 Bit I/O Recovery Time	: 1	Current +5V	: 5.02V
Memory Hole At 15M-16M	: Disabled	Current +12V	: 12.28V
Delayed Transaction	: Disabled	Current -12V	: -11.81V
Clock Spread Spectrum	: Disabled	Current -5V	: -5.09V
Slow Down CPU Duty Cycle	: Normal	Current Battery Life	: OK
Alarm When CPU Overheat	: Disabled		
CPU1 Temperature Select	: 75°C/167°F	ESC : Quit	↑↓←→ : Select Item
CPUFan1 Control	: Disabled	F1 : Help	PU/PD/+/- : Modify
CPU2 Temperature Select	: 75°C/167°F	F5 : Old Values (Shift)	F2 : Color
CPUFan2 Control	: Disabled	F6 : Load BIOS Defaults	F7 : LOAD PERFORMANCE DEFAULTS

- ** 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 (128x1)MB SDRAM (SEC KM48S8030BT-GH)
- CACHE SIZE 512 KB included in CPU
- DISPLAY GA-601 AGP Display Card (4MB SGRAM)
- STORAGE Onboard Ultra Wide SCSI (Seagate ST34555W)
- O.S. Windows NT™ 4.0
- DRIVER Display Driver at 1024 x 768 x 64k colors x 75Hz.

Adaptec AIC-7895P SCSI Driver

Processor	Intel Pentium® II	
	300MHz(100x3)	350MHz(100x3.5)
Winbench98		
CPU mark32	776	905
FPU Winmark	1540	1800
Business Disk	1830	1870
Hi-End Disk	4400	4510
Business Graphics	174	197
Hi-End Graphics	182	208
Winstone98		
Business	30.7	33.8
Hi-End	34.6	37.8