

6LM7/6LM7A

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(dependents on the specification of keyboards), you can power on your system by entering password from the Keyboard after setting the “Keyboard power on” jumper and password in CMOS Setup.
3. **Support 3 steps ACPI LED selectable.**
4. **Support Modem Ring-On.** (Include internal Modem and external modem on COM A and COM B)
5. **Support Wake-up On LAN.** (Your ATX power supply must support larger than 720 mA 5V Stand-By current)
6. **ESS SOLO-1 ES1938S PCI Sound Onboard (Optional).**

INTEL[®] Celeron[™] Socket 370 Processor MAINBOARD
REV. 1.0 Third Edition

R-10-03-090422

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.

Third-party brands and names are the property of their respective owners.

April 22, 1999 Taipei, Taiwan

I. Quick Installation Guide :

CPU SPEED SETUP

The default system bus speed is 66 MHz. The user can change the DIP SWITCH (SW) selection to set up the CPU speed for 366 - 566MHz 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.

FREQ. RATIO	DIP SWITCH (SW)			
	1	2	3	4
X 3	O	X	O	O
X 3.5	X	X	O	O
X 4	O	O	X	O
X 4.5	X	O	X	O
X 5	O	X	X	O
X 5.5	X	X	X	O
X 6	O	O	O	X
X 6.5	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

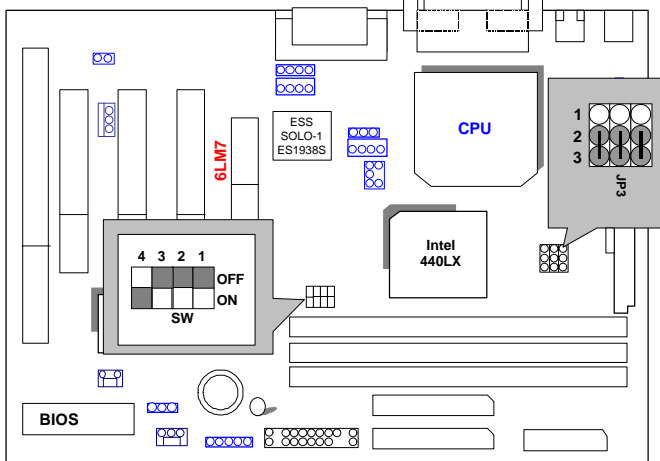
● JP2, JP3, JP4 (Select the system speed; 66, 75, 83 MHz)

MAIN CLOCK	JP4	JP3	JP2
66MHz	2-3	2-3	2-3
75MHz	2-3	1-2	2-3
83MHz	1-2	2-3	1-2

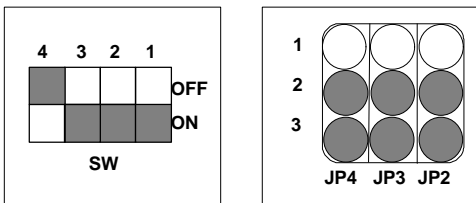
★ Note: We don't recommend you to setup your system speed to 75 or 83MHz because these frequencies are not the standard specifications for CPU, Chipset and most of the peripherals. Whether your system can run under 75 or 83MHz properly will depend on your hardware configurations: CPU, SDRAM, Cards, etc.

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

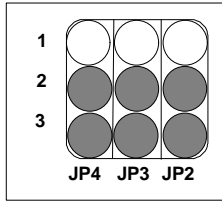
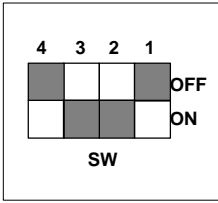
1. Celeron™ 366MHz / 66MHz FSB



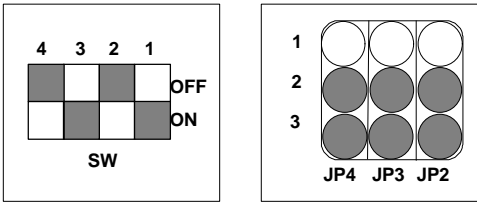
2. Celeron™ 400 MHz / 66MHz FSB



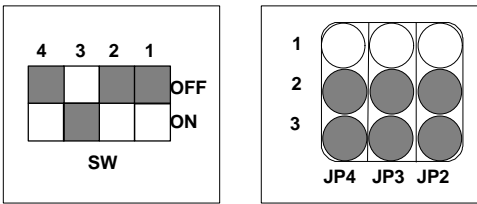
3. Celeron™ 433 MHz / 66MHz FSB



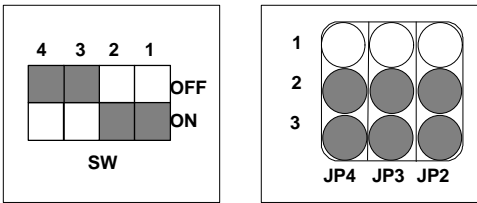
4. Celeron™ 466 MHz / 66MHz FSB



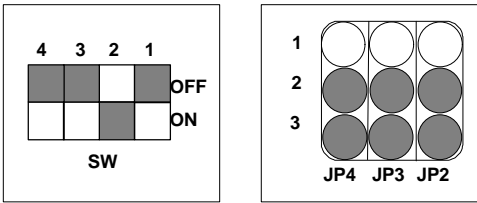
5. Celeron™ 500 MHz / 66MHz FSB



6. Celeron™ 533 MHz / 66MHz FSB

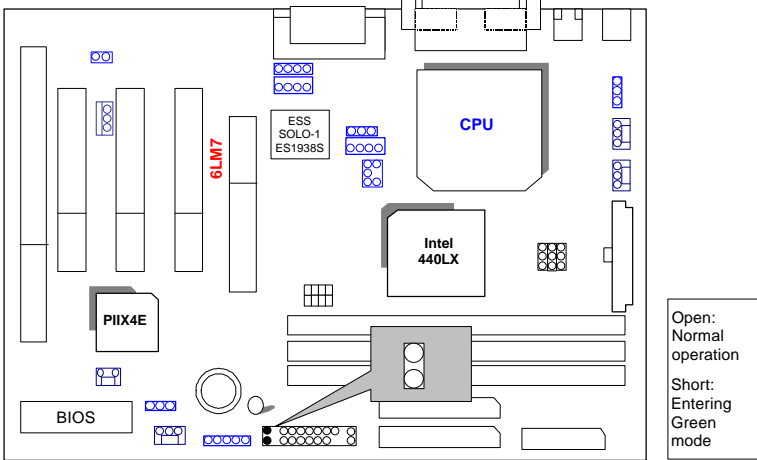


7. Celeron™ 566 MHz / 66MHz FSB

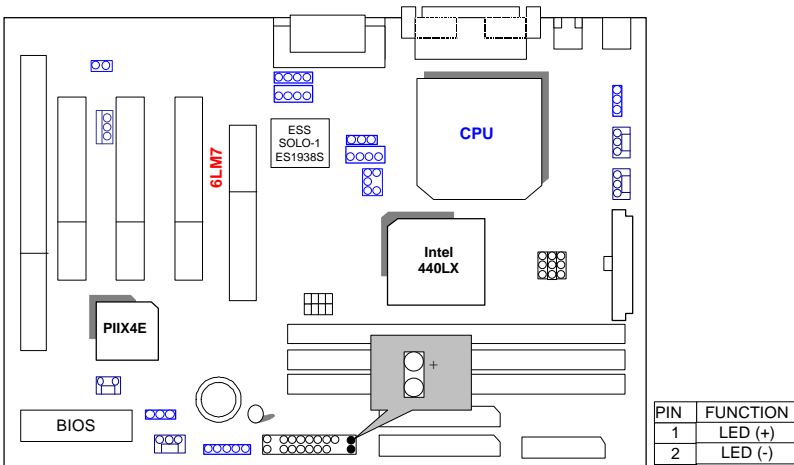


II. Jumper setting :

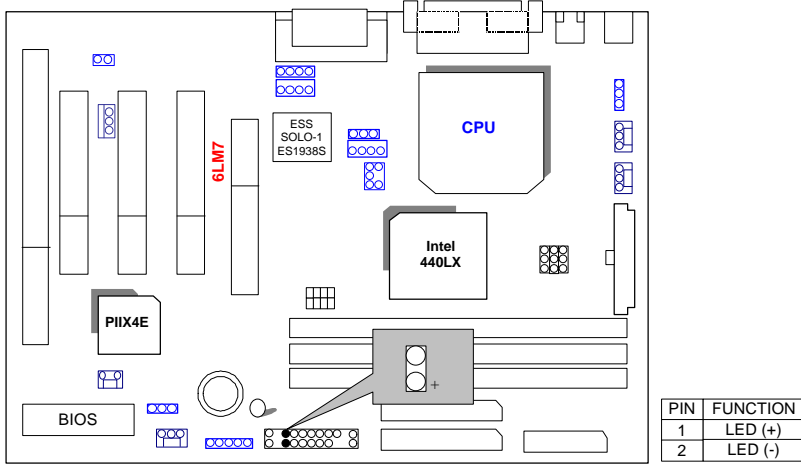
GN : Green Function Switch



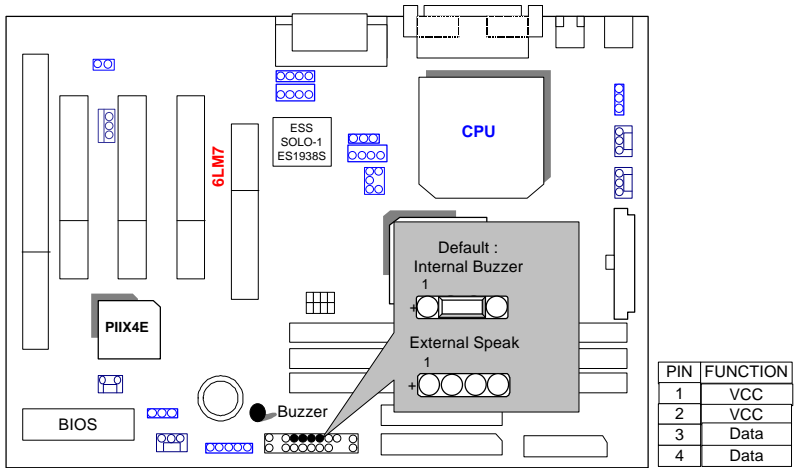
GD : Green Function LED



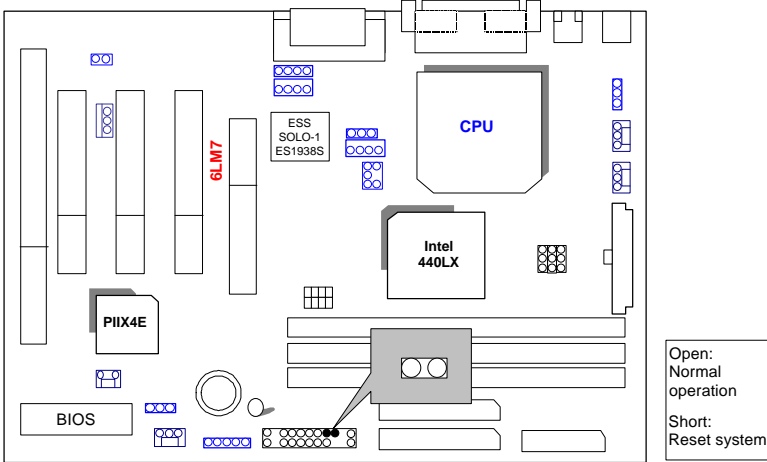
HD : IDE Hard Disk Active LED



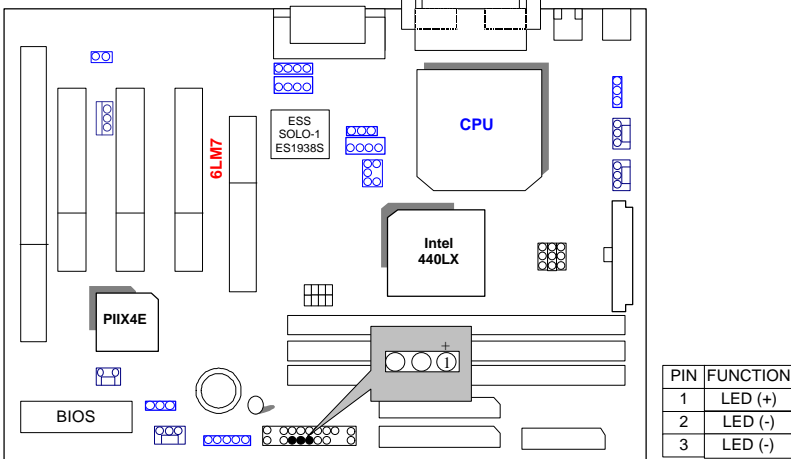
SPKR: External Speaker/ Internal Buzzer Connector



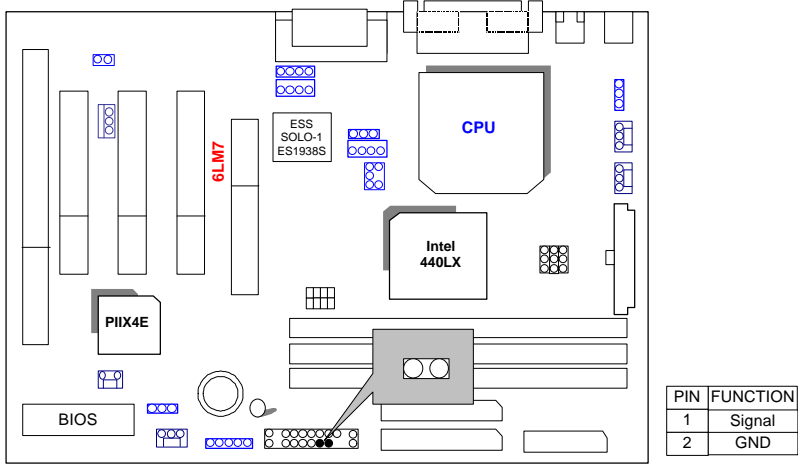
RES : Reset Switch



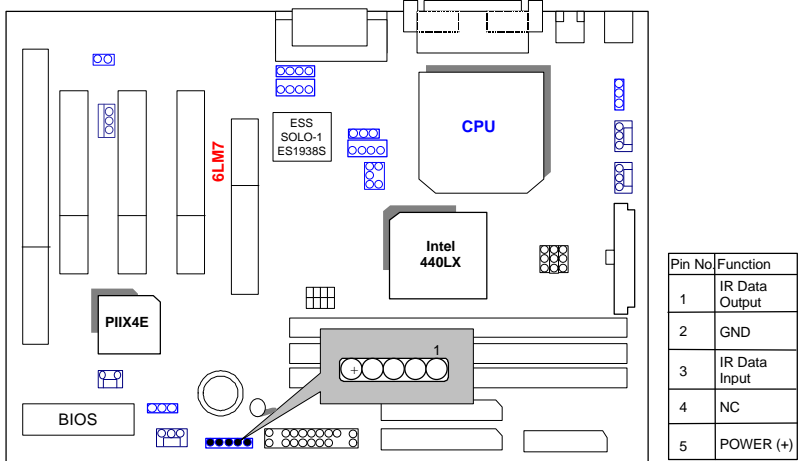
PWR : Power LED Connector (as 3 steps ACPI LED)



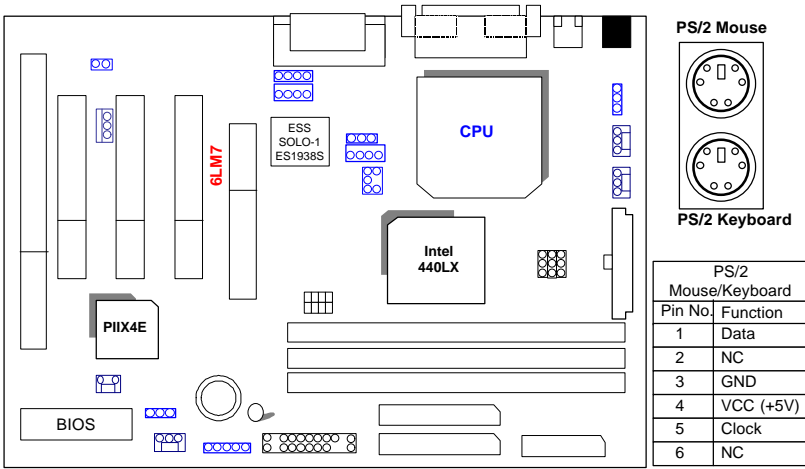
PW: Soft Power Connector



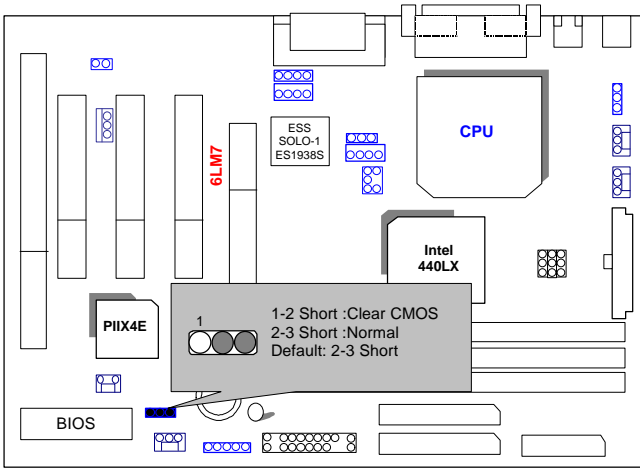
IR : Infrared Connector (Optional)



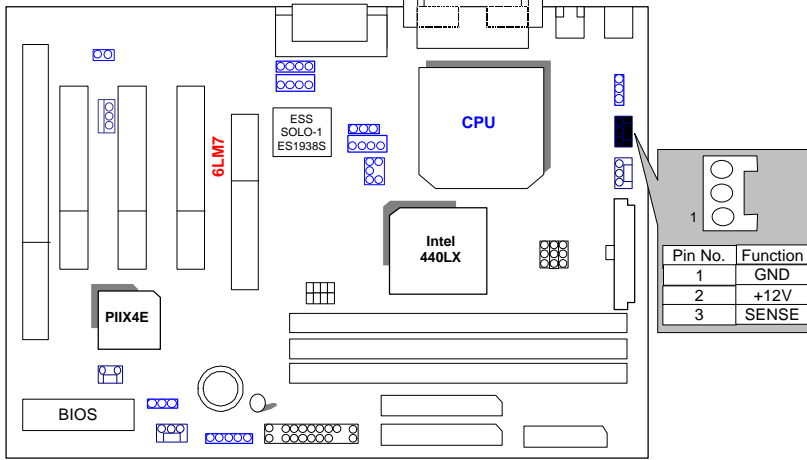
PS/2 Mouse / Keyboard Connector



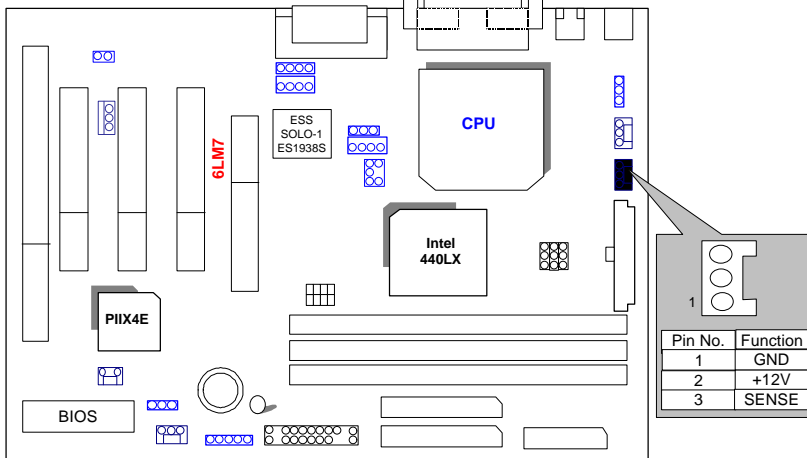
J13: CLEAR CMOS Function



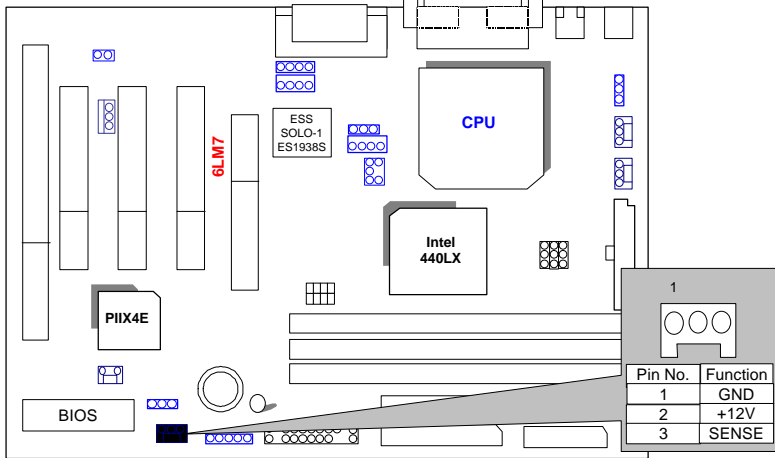
CPU FAN : CPU Cooling Fan Power Connector



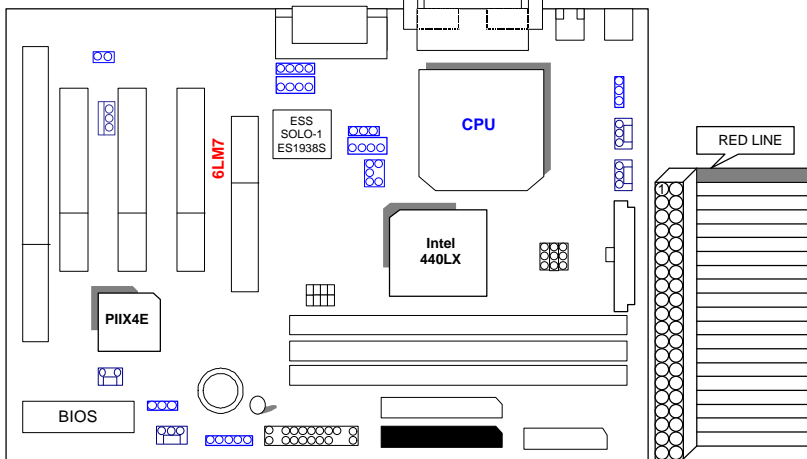
POWER FAN : POWER Cooling Fan Power Connector



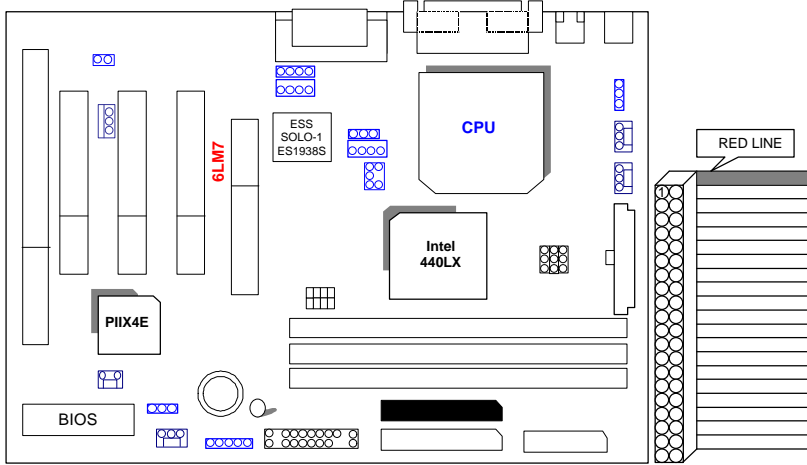
SYSTEM FAN : SYSTEM Cooling Fan Power Connector



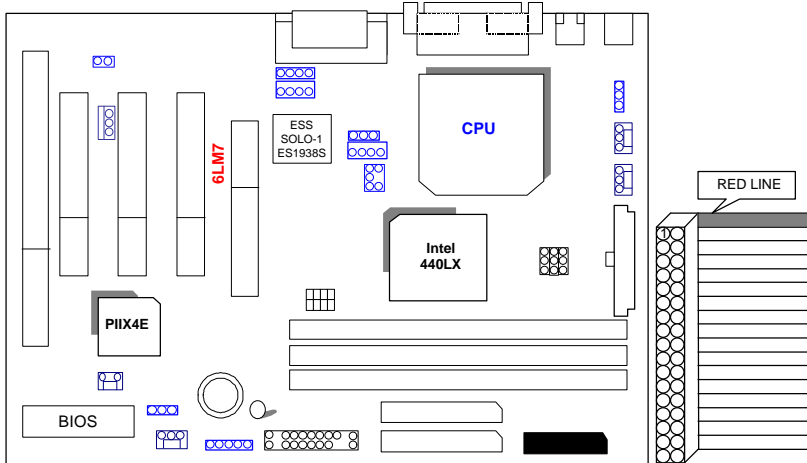
IDE1: For Primary IDE port



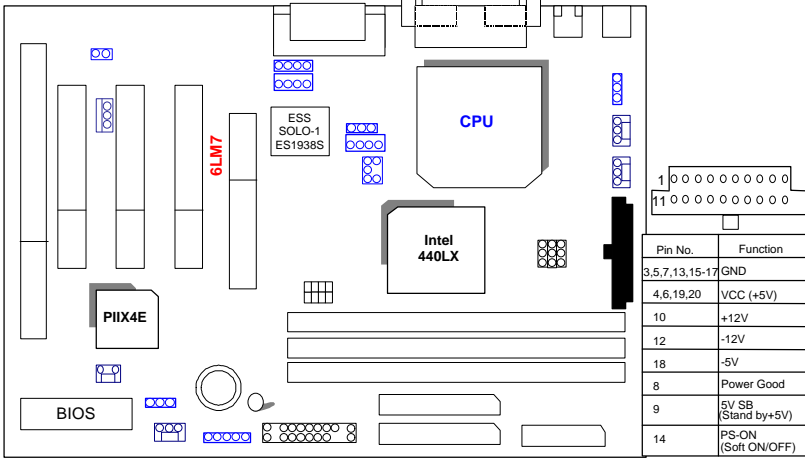
IDE2: For Secondary IDE port



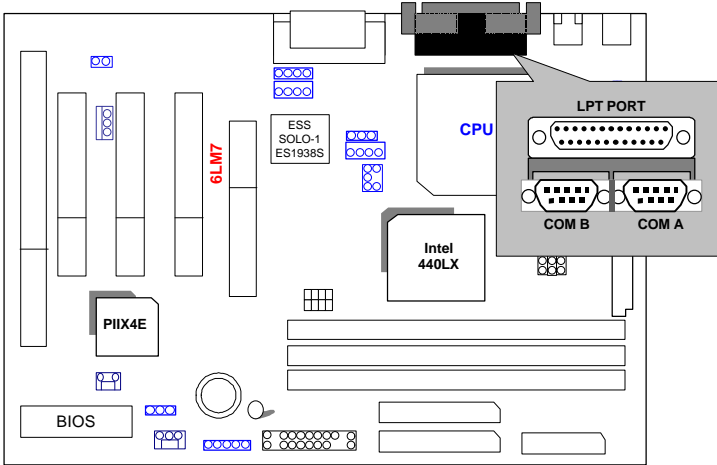
FLOPPY : FLOPPY PORT



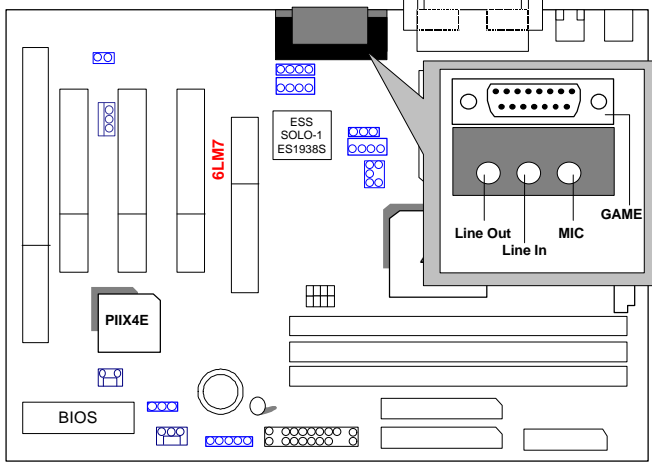
ATX POWER : ATX POWER Connector



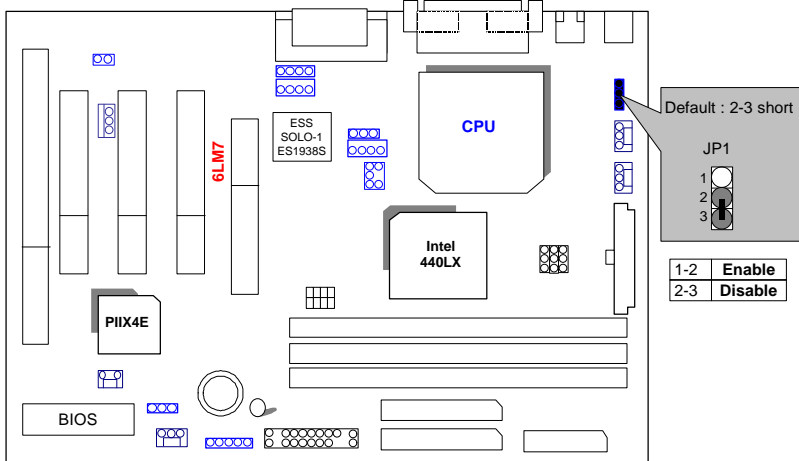
COM A / COM B / LPT PORT



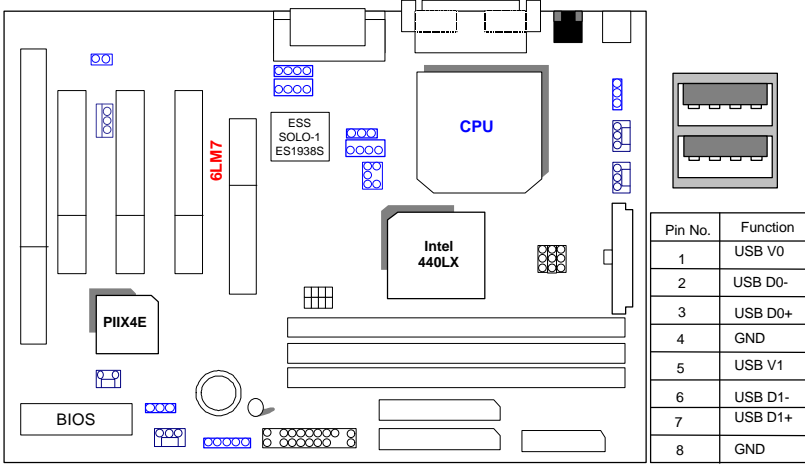
GAME & AUDIO PORT (Optional)



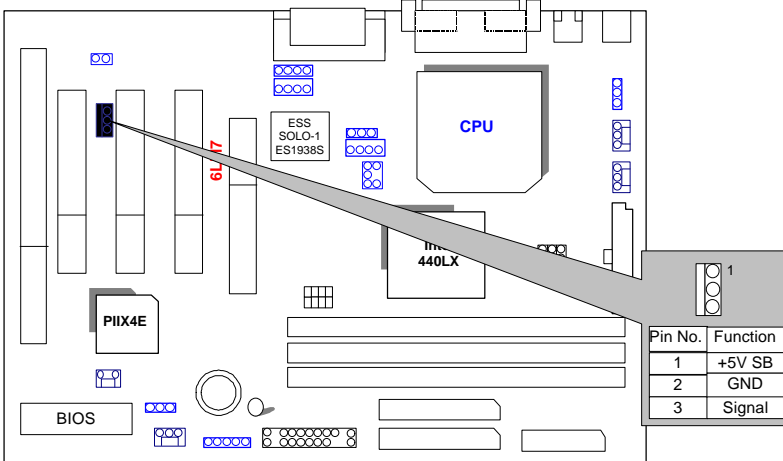
JP1 : Keyboard Power On



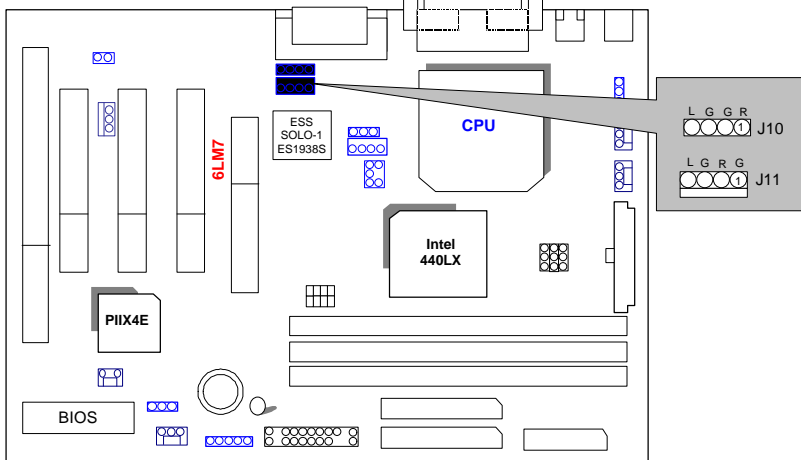
USB: USB Port



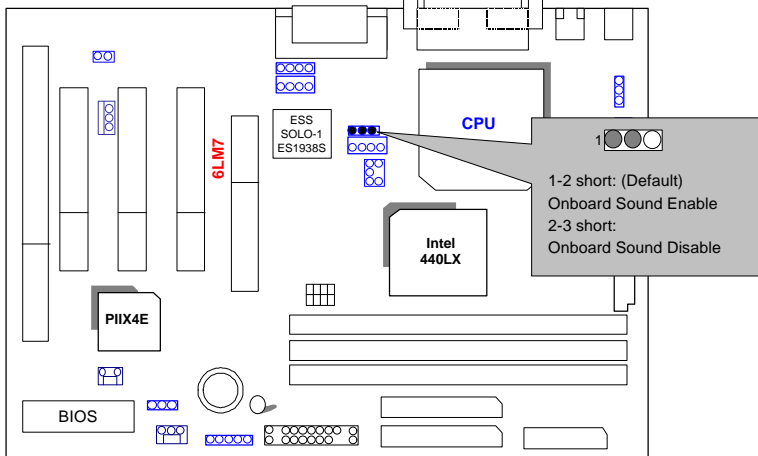
JP8: Wake on LAN



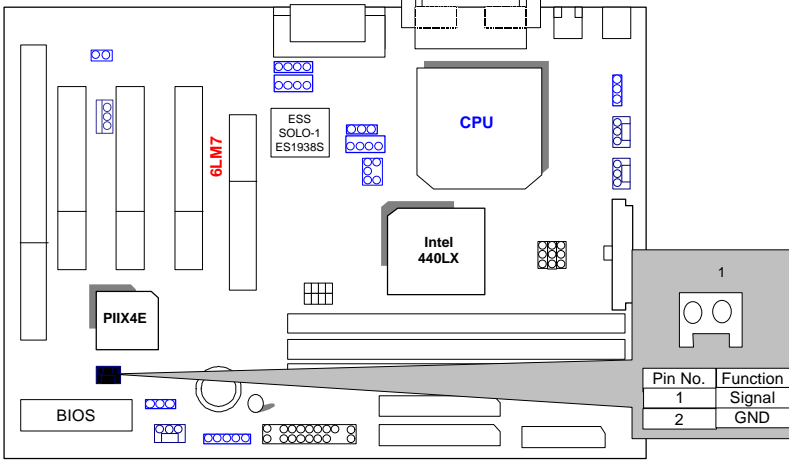
J10 & J11: CD Audio Line In (Optional)



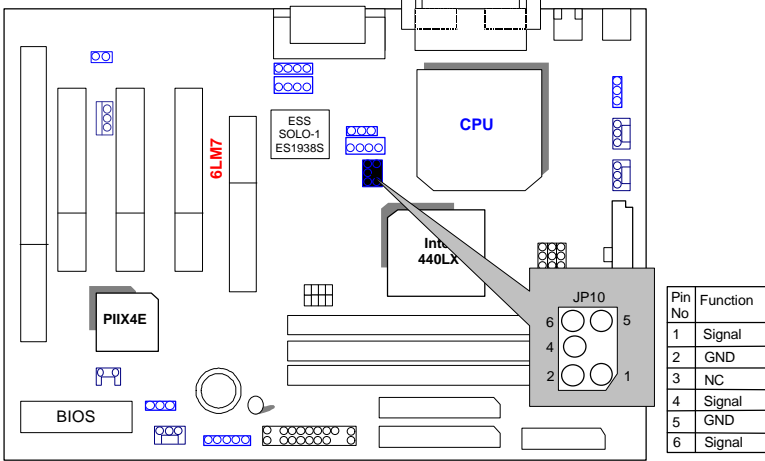
JP5: Onboard Sound Function Selection (Optional)



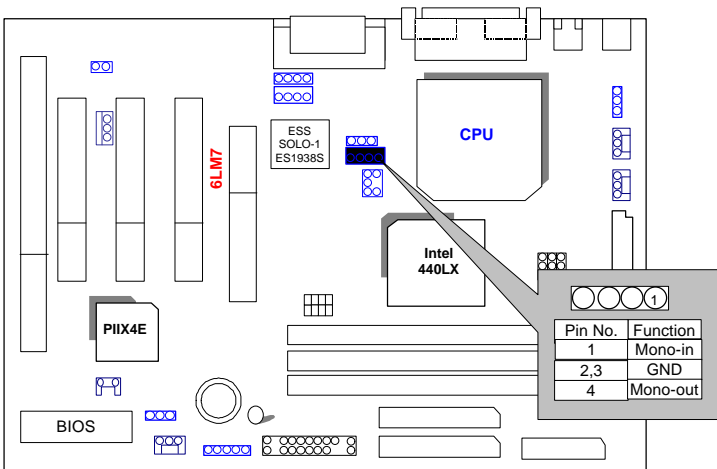
J14:Internal Modem Card Ring PWR On



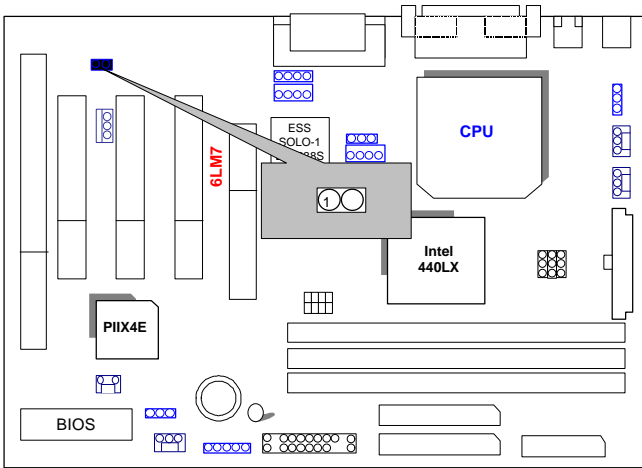
JP10:SB-LINK Creative PCI Sound Card Support(Optional)



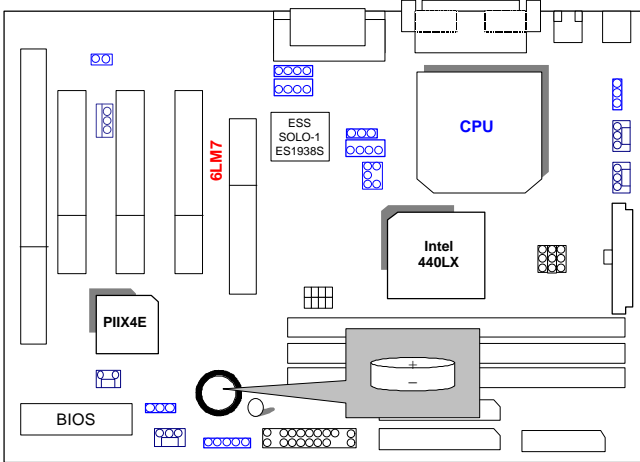
TEL: The connector is for Modem with internal voice connector.



JP9:CASE OPEN Function



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.

Auto Configuration      : Enabled
DRAM Speed Selection    : Fast
Memory Buffer Strength  : Middle
DRAM Data Integrity Mode : Non-ECC
16 Bit I/O Recovery Time : 1
Memory Hole At 15M-16M : Disabled
Delayed Transaction     : Disabled
SDRAM RAS-to-CAS Delay  : Fast
SDRAM RAS Precharge Time : Fast
SDRAM CAS latency Time  : 2
Spread Spectrum         : Disabled
Slow Down CPU Duty Cycle : Normal
Shutdown Temp.(°C/°F)  : 75/167
**Temp. Select (°C/°F)**
CPU : 70/158

**Temperature Alarm**
CPU : No

**Fan Fail Alarm**
CPU:No      POWER:No      SYS.:No

Reset Case Open Status : No
Case Opened           : No

** Current Temp.(°C/°F)**
CPU : 33/91

** Current Fan Speed (RPM)**
CPU:5443    POWER:0      SYS.:0

** Current Voltage (U)**
UCORE :1.95  VGTL : 1.52  UCC3:3.56
+ 5U: 5.08  +12U: 12.52  -12U:-11.86
- 5U:- 5.09  VBAT: 3.26   SUSB:5.05

ESC : Quit      ↑↓+* : Select Item
F1  : Help      PU/PD/+/- : Modify
F5  : Old Values (Shift)F2 : Color
F6  : Load BIOS Defaults
F7  : LOAD SETUP 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 Intel® Celeron™ 366MHz Socket 370 processor
- DRAM (128x 1) MB SDRAM (SEC KM48S8030BT-GH)
- CACHE SIZE 128 KB included in CPU
- DISPLAY GA-630 VOODOO BANSHEE (16MB SGRAM)
- STORAGE Onboard IDE (IBM DHEA 38451)
- O.S. Windows NT™4.0 SPK3
- DRIVER Display Driver at 1024 x 768 x 256 colors x 75Hz.
TRIONES Bus Master IDE Driver 3.70

Processor	Intel® Celeron™ 366MHz (66x5.5)
Winbench98	
CPU mark32	705
FPU Winmark	1970
Business Disk	1790
Hi-End Disk	4290
Business Graphics	224
Hi-End Graphics	248
Winstone98	
Business	32.9
Hi-End	36.6