686LX3

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.(Optional)**

2. **System power on by Keyboard: If your ATX power supply supports larger than 100~300 mA 5V Stand-By current, you can power on your system by entering password from the keyboard after setting the "Keyboard power on" password in CMOS Setup.**

3. **Supports 3 steps ACPI LED**

4. **WAKE-UP ON LAN. (The ATX power supply supports larger than 720 mA 5V Stand-By current)**

- **J13.JP12.J6 Jumpers for PCB 2.0/2.2 use, please reference P16 ¡ P17**

Pentium â II Processor MAINBOARD

R-22-01-081015

REV. 2.2 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.

Oct 15, 1998 Taipei, Taiwan

I. Quick Installation Guide:

CPU SPEED SETUP

The default system bus speed is set to 66MHz. The user can change the DIP SWITCH **(SW)** selection to set up the CPU speed for 200 - 366MHz processor.

The CPU speed MUST match with the frequency RATIO and external clock frequency. It will cause system hanging up if the frequency RATIO and the external clock frequency are higher than that of CPU.

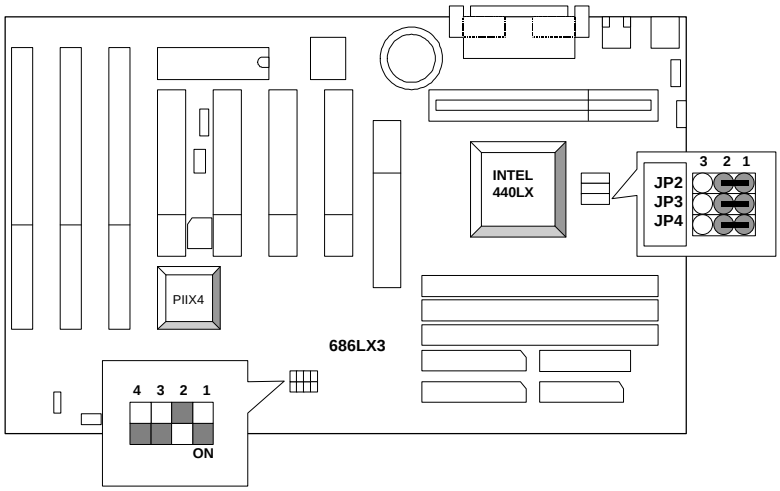
FREQ. RATIO	DIP SWITCH (SW)			
	SW1	SW2	SW3	SW4
X 3	ON	OFF	ON	ON
X 3.5	OFF	OFF	ON	ON
X 4	ON	ON	OFF	ON
X 4.5	OFF	ON	OFF	ON
X 5	ON	OFF	OFF	ON
X 5.5	OFF	OFF	OFF	ON

JP2, JP3, JP4 (Select the system speed ¡ 66 / 75 / 83 / 100MHz)

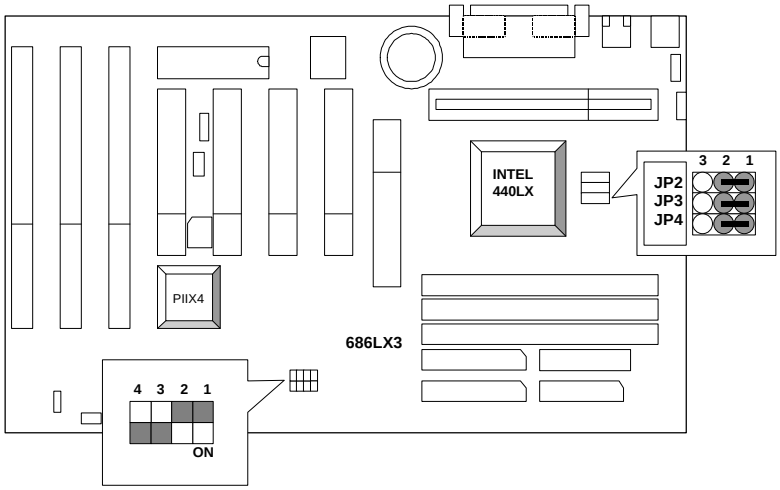
Main Clock	JP4	JP3	JP2
66 MHz	1-2	1-2	1-2
75 MHz	1-2	2-3	1-2
83 MHz	2-3	1-2	2-3
100 MHz	1-2	2-3	2-3

★ **Note: We don't recommend you to setup your system speed to 75, 83 or 100MHz because these frequencies are not the standard specifications for CPU, Chipset and most of the peripherals. Whether your system can run under 75, 83 or 100MHz properly will depend on your hardware configurations: CPU, SDRAM, Cards, etc.**

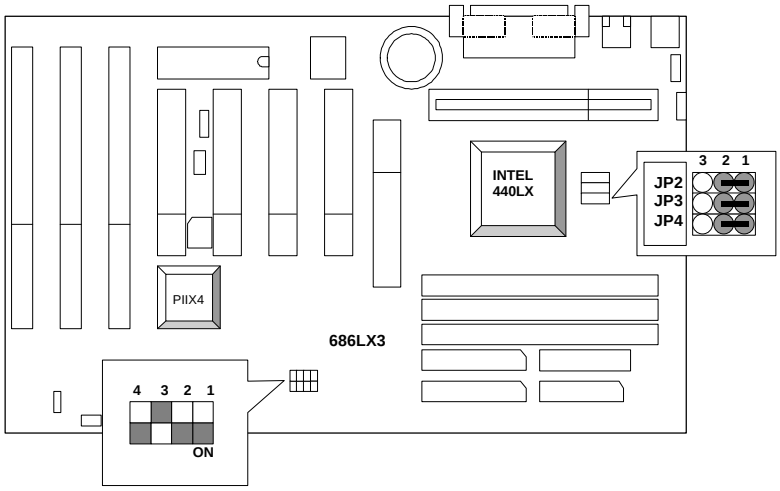
1. Pentium® II 200 MHz



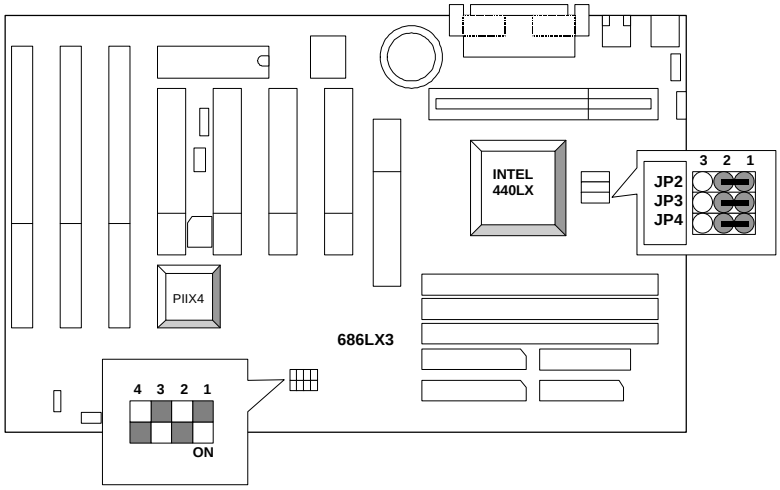
2. Pentium® II 233 MHz



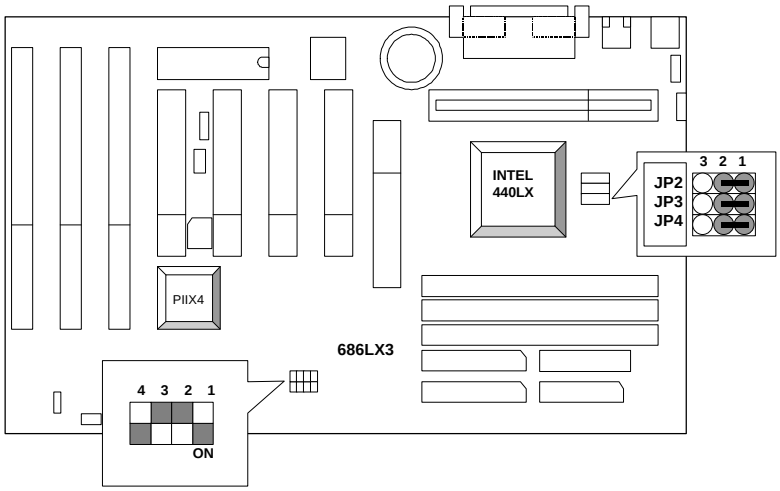
3. Pentium® II 266 MHz



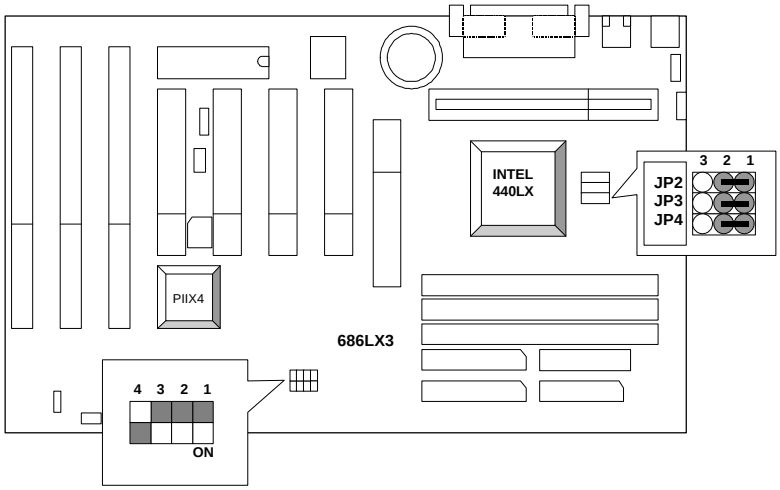
4. Pentium® II 300 MHz



5. Pentium® II 333 MHz

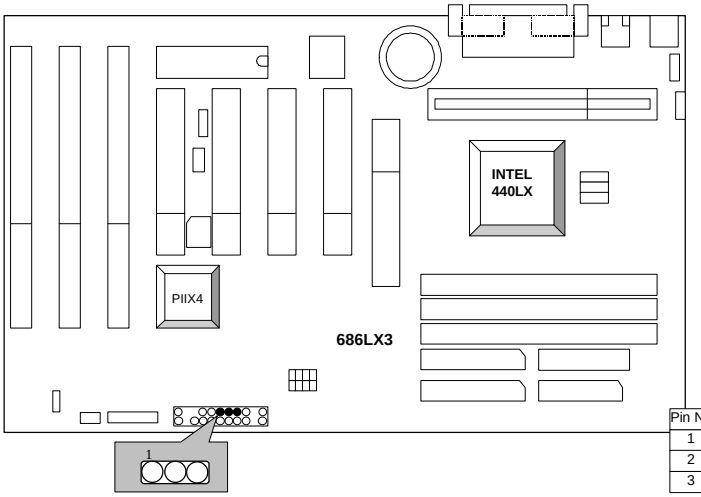


6. Pentium® II 366 MHz



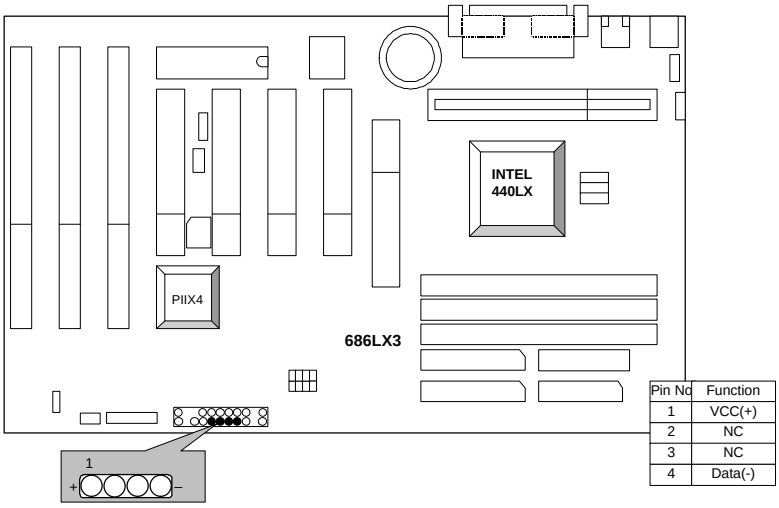
II. Jumper setting :

PWR : Power LED Connector



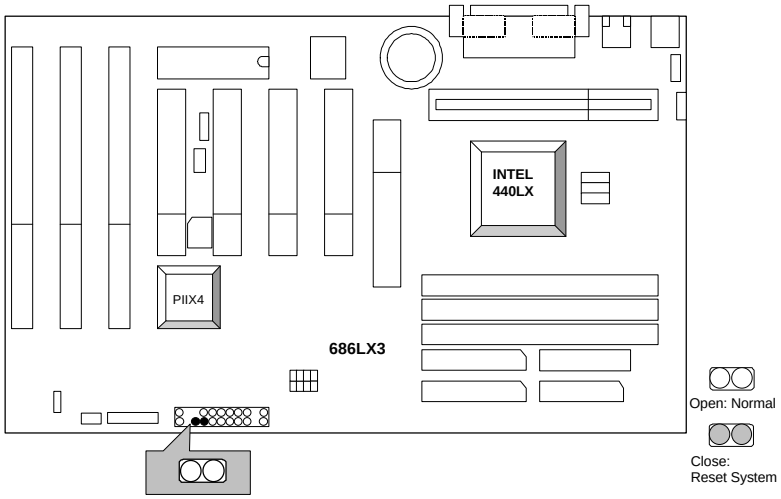
Pin No	Functioin
1	LED (+)
2	LED (-)
3	LED (-)

SPK : Speaker Connector

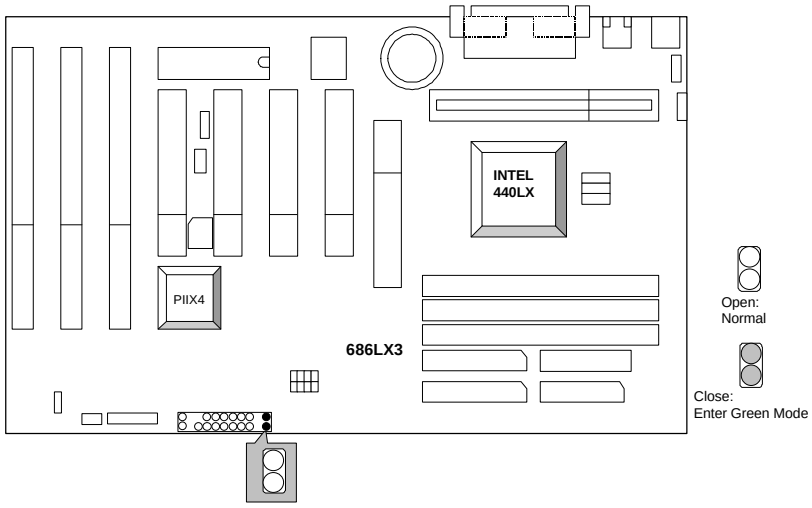


Pin No	Function
1	VCC(+)
2	NC
3	NC
4	Data(-)

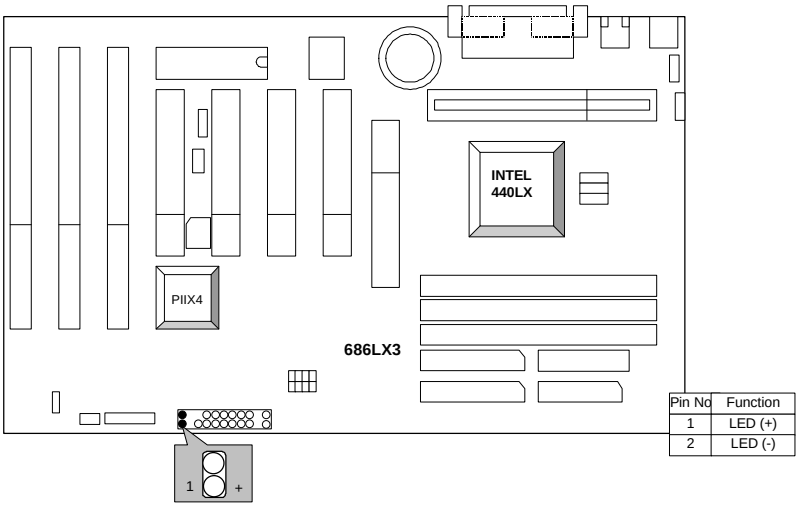
RST : Reset Switch



GN : Green Function Switch

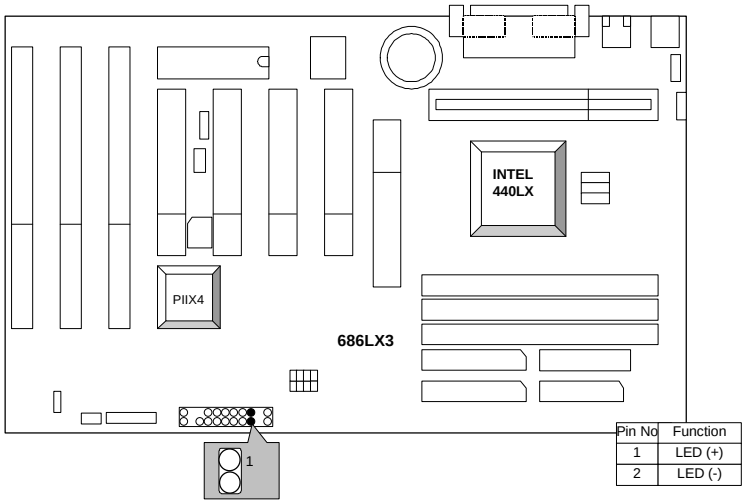


GD : Green LED



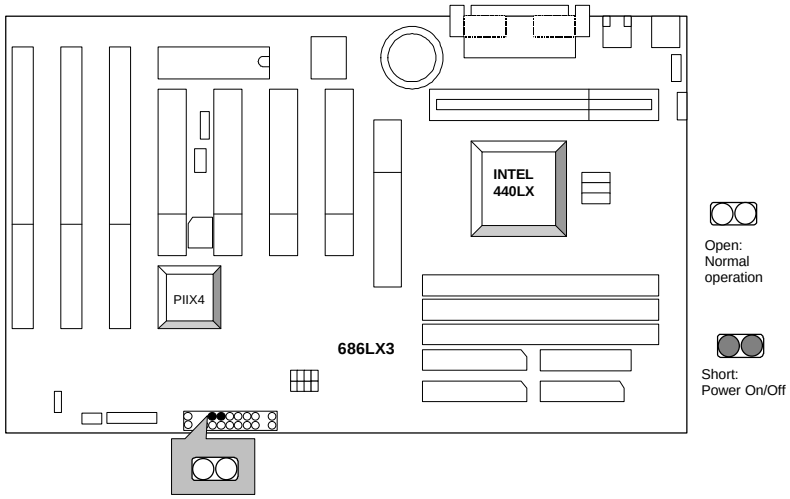
Pin No	Function
1	LED (+)
2	LED (-)

HD : IDE Hard Disk Active LED

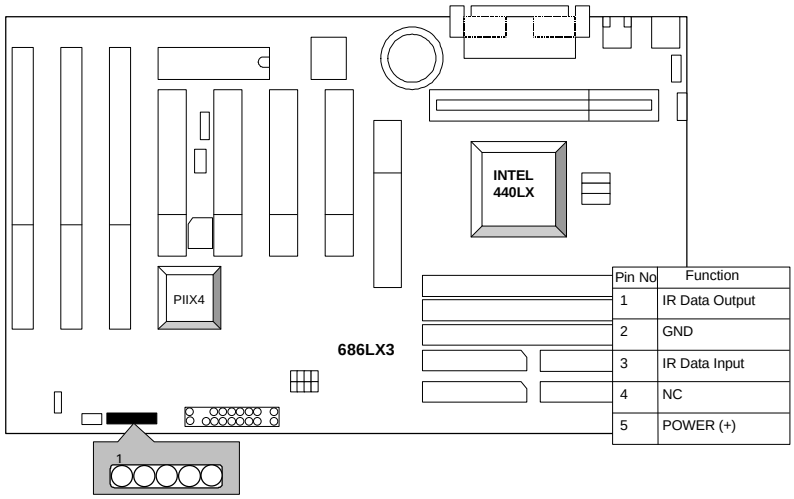


Pin No	Function
1	LED (+)
2	LED (-)

Soft PWR : Soft Power Connector

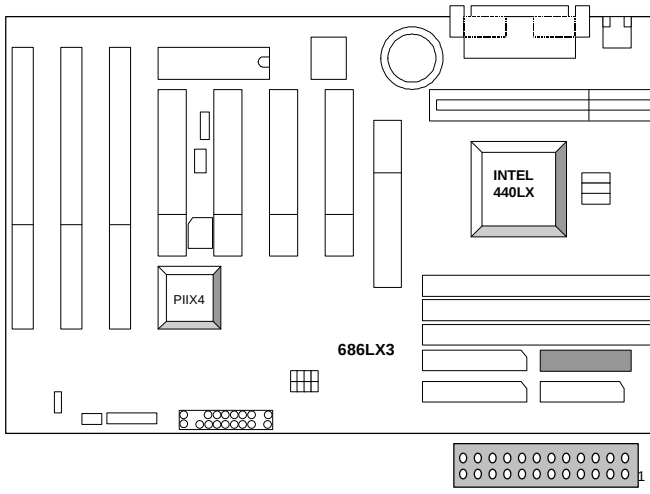


IR : Infrared Connector (Optional)



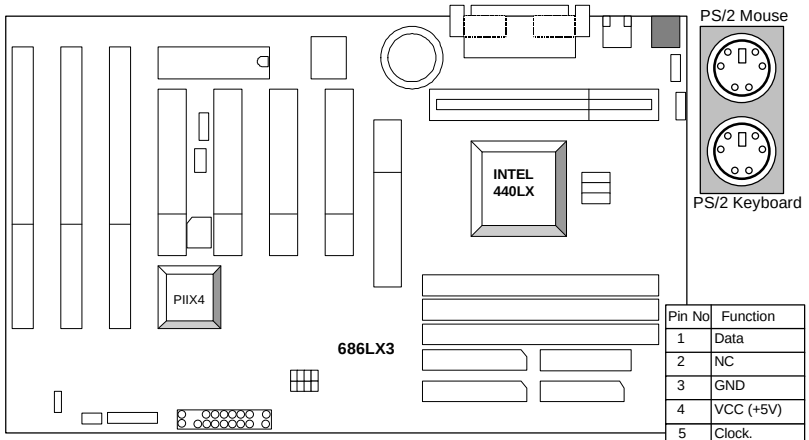
Pin No	Function
1	IR Data Output
2	GND
3	IR Data Input
4	NC
5	POWER (+)

POWER : Power Connector



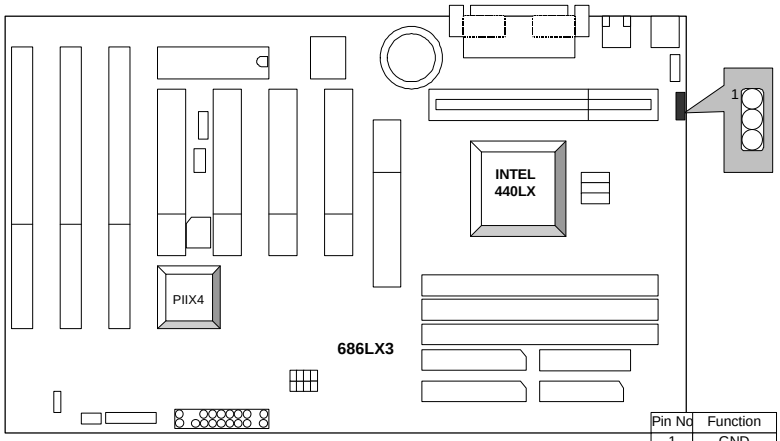
Pin No.	Function
3,5,7,13, 15-17	GND
4,6,19,20	VCC(+5V)
10	+12V
12	-12V
18	-5V
8	Power Good
9	5V SB
14	PS-ON

PS/2 Mouse / Keyboard Connector



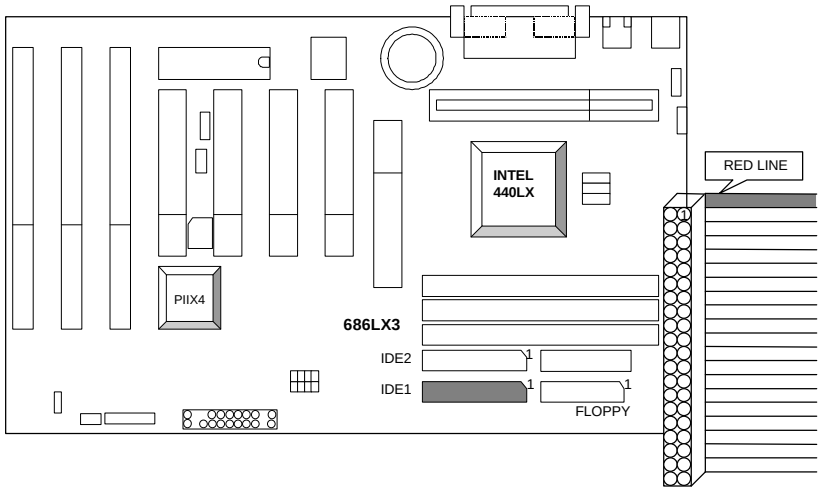
Pin No	Function
1	Data
2	NC
3	GND
4	VCC (+5V)
5	Clock.
6	NC

J1 : CPU Cooling Fan Power Connector

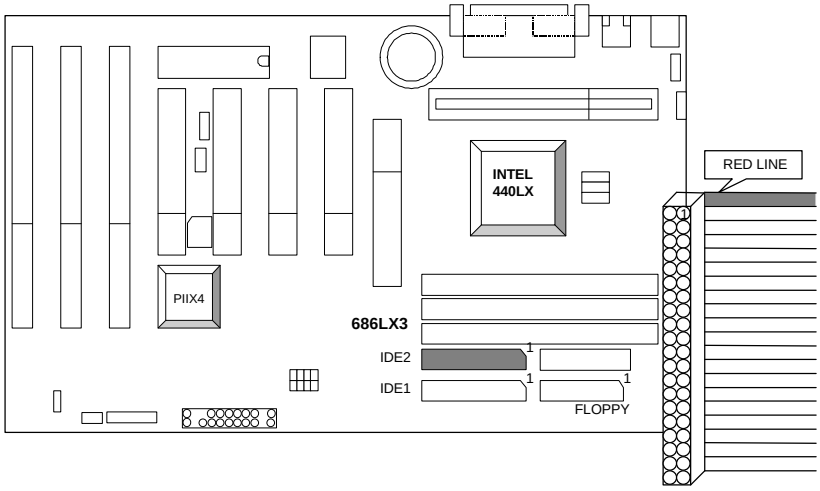


Pin No	Function
1	GND
2	+12V
3	SENSE

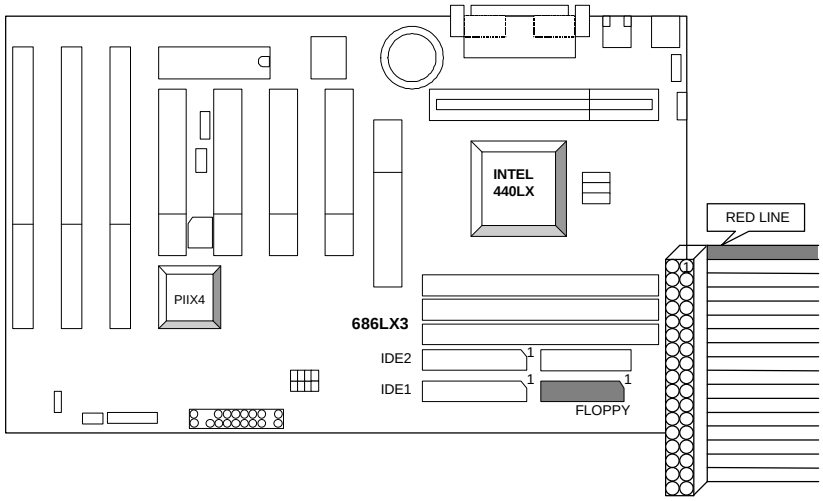
IDE1: For Primary IDE port



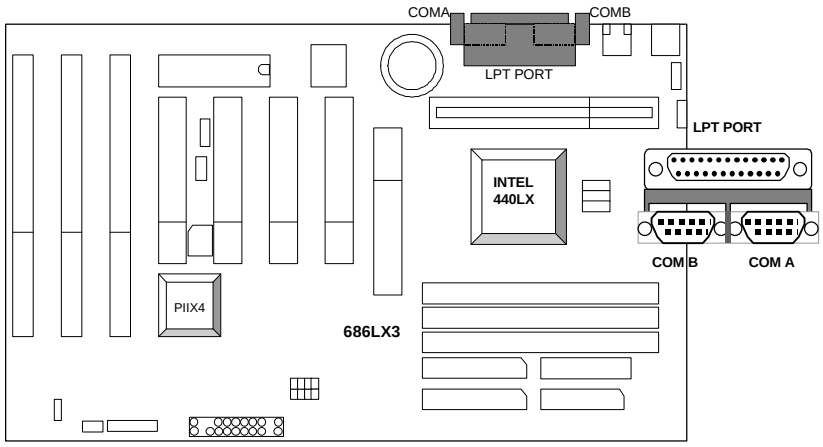
IDE2: For Secondary IDE port



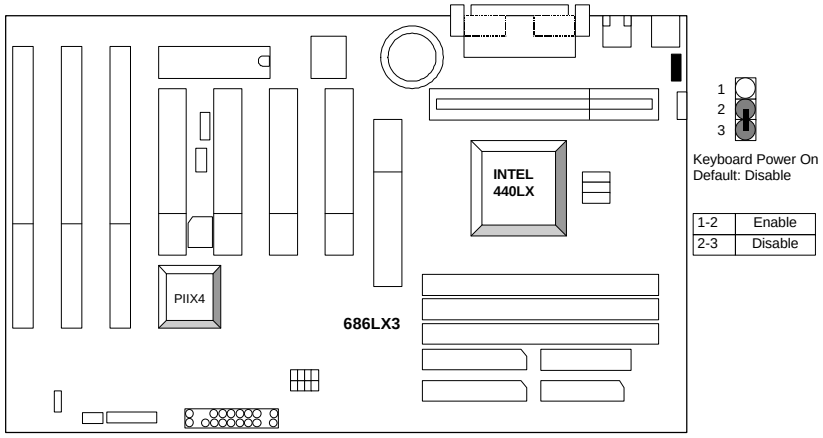
J7 : FLOPPY PORT



LPT PORT / COM A / COM B

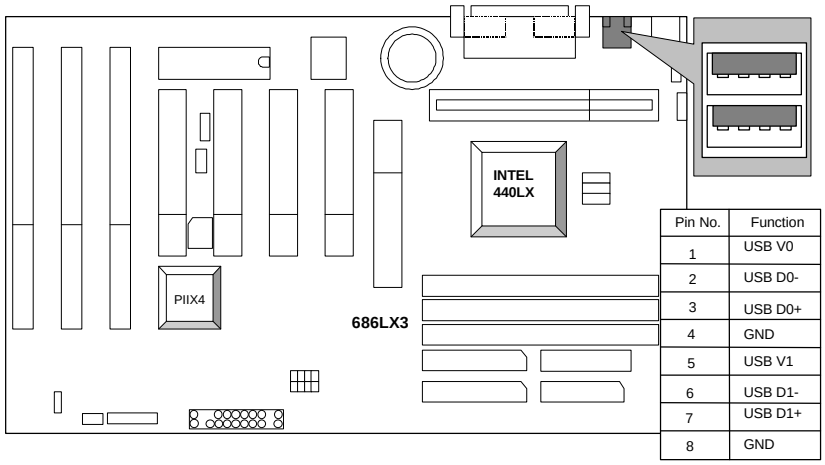


JP1 : Keyboard Power On Selection



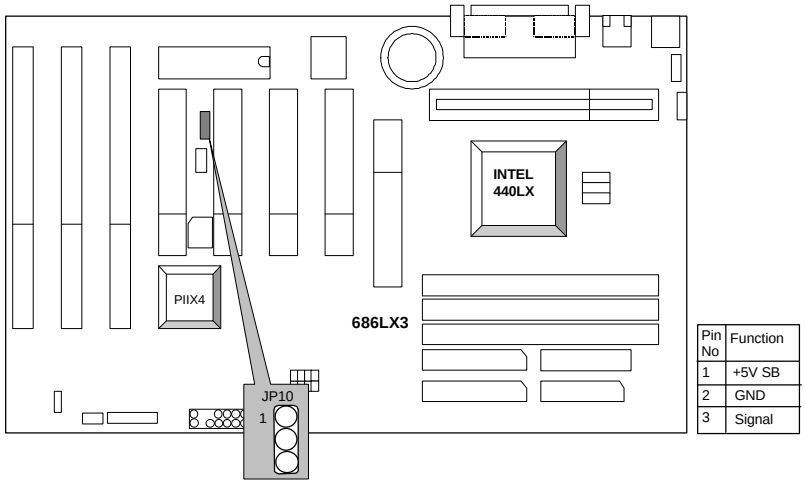
1-2	Enable
2-3	Disable

CN1: USB Port



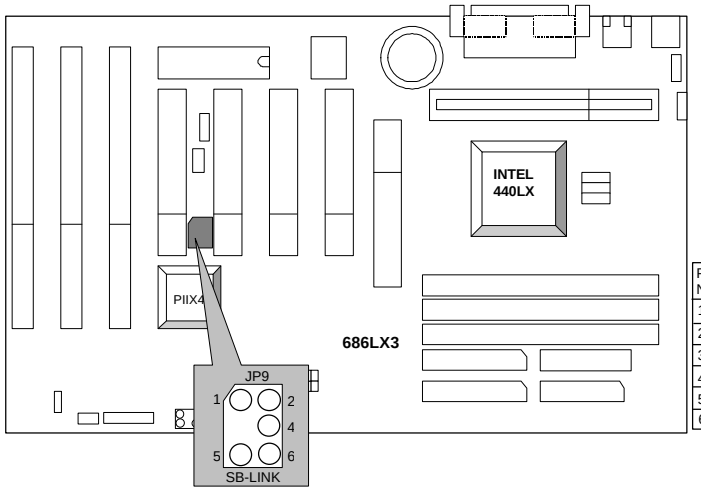
Pin No.	Function
1	USB V0
2	USB D0-
3	USB D0+
4	GND
5	USB V1
6	USB D1-
7	USB D1+
8	GND

JP10: Wake on LAN



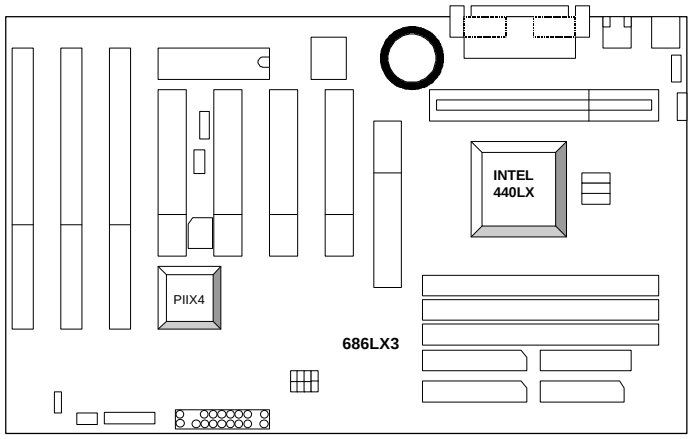
Pin No	Function
1	+5V SB
2	GND
3	Signal

JP9 :SB-Link (Creative PCI Sound Card Support)



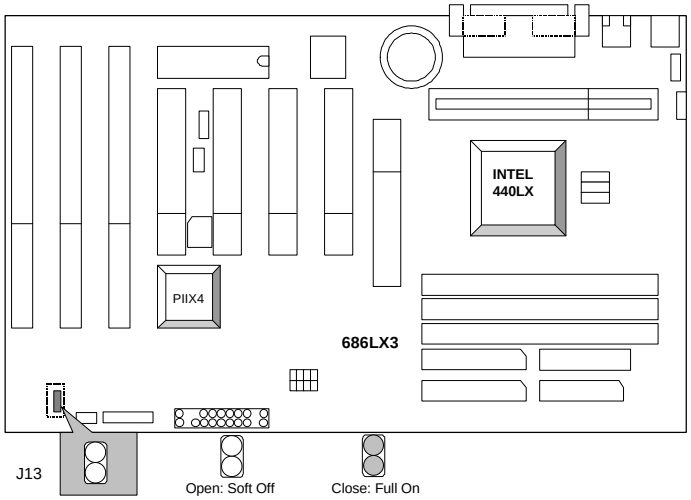
Pin No	Function
1	Signal
2	GND
3	NC
4	Signal
5	GND
6	Signal

BAT1:For Battery

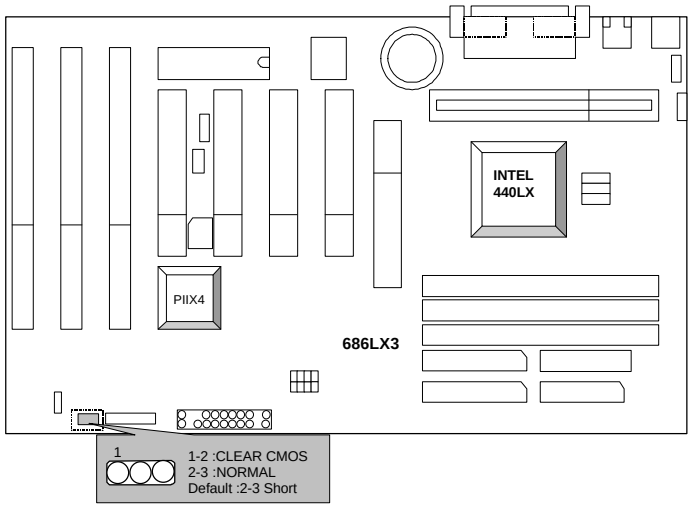


Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

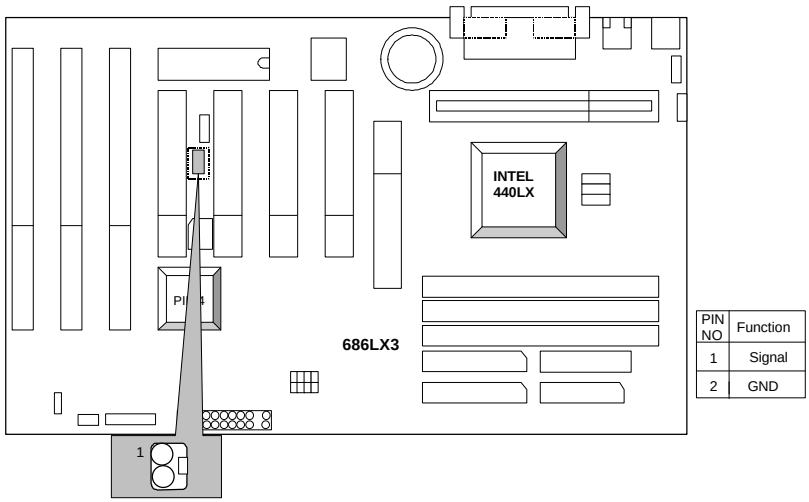
J13: ATX Power Control Selection (PCB Only ver:2.0 use)



JP12:CLEAR CMOS Function (PCB Only ver:2.2 use)



J6:RING POWER ON (PCB Only ver:2.2 use)



PIN NO	Function
1	Signal
2	GND

III. Top Performance Test Setting:

Users have to modify the value for each item in chipset features as follow for top performance setting.