

# **686LX4**

## **USER'S MANUAL**

1. **System power on by PS/2 Mouse:** 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 1 ampere 5V Stand-By function, you can power on your system by entering password from keyboard.
3. **Supports 3 steps ACPI LED selectable.**
4. **Modem Ring-On. (COM B)**
5. **Wake-Up on LAN. (on J13)**

**Pentium<sup>®</sup> II Processor MAINBOARD**

**REV. 1.0 First Edition**

R-01-01-080119



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January 19, 1998 Taipei, Taiwan

**I. Quick Installation Guide :**

**CPU SPEED SETUP**

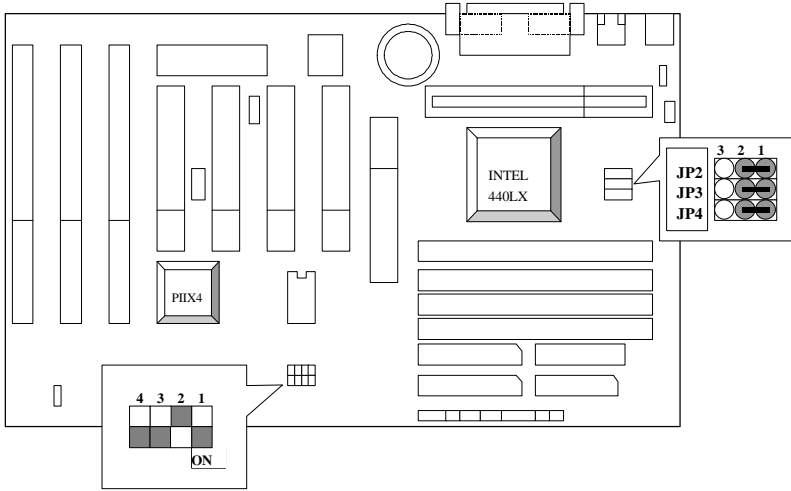
The default system bus speed is 66.6MHz. The user can change the DIP SWITCH (**SW**) selection to set up the CPU speed for 200 - 633MHz processor.

**The CPU speed MUST match with the frequency RATIO. It will cause system hanging up if the frequency RATIO is higher than that of CPU.**

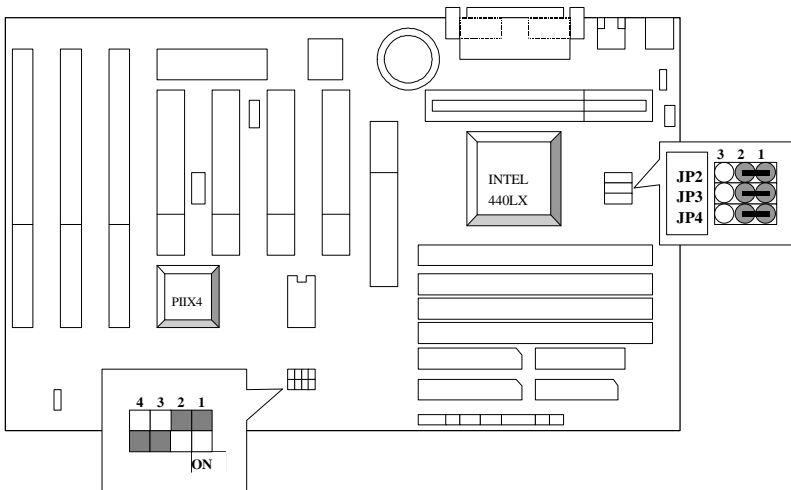
DIP SWITCH (SW)				FREQ. RATIO	EXT.CLK. MHz	INT.CLK. MHz	CPU Type
1	2	3	4				
OFF	ON	OFF	OFF	3	66	200	Pentium® II 200 MHz
ON	ON	OFF	OFF	3.5	66	233	Pentium® II 233 MHz
OFF	OFF	ON	OFF	4	66	266	Pentium® II 266 MHz
ON	OFF	ON	OFF	4.5	66	300	Pentium® II 300 MHz
OFF	ON	ON	OFF	5	66	333	Pentium® II 333 MHz
ON	ON	ON	OFF	5.5	66	366	Pentium® II 366 MHz

Main Clock	JP4	JP3	JP2
66 MHz	1-2	1-2	1-2

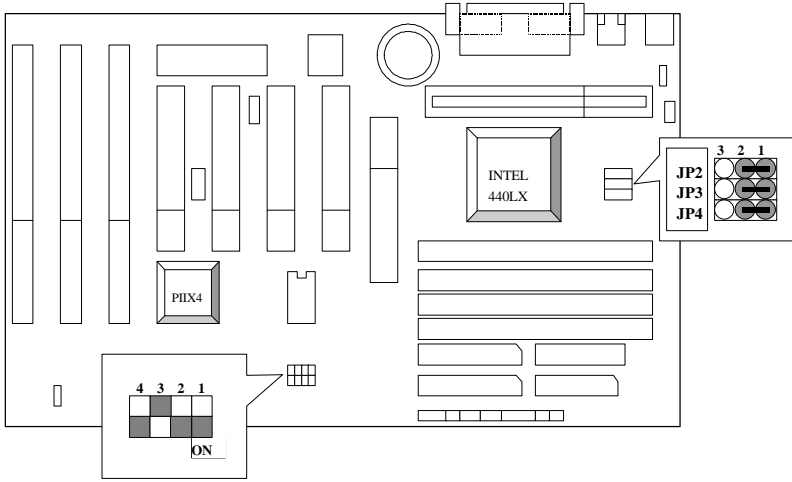
1. Pentium® II 200 MHz



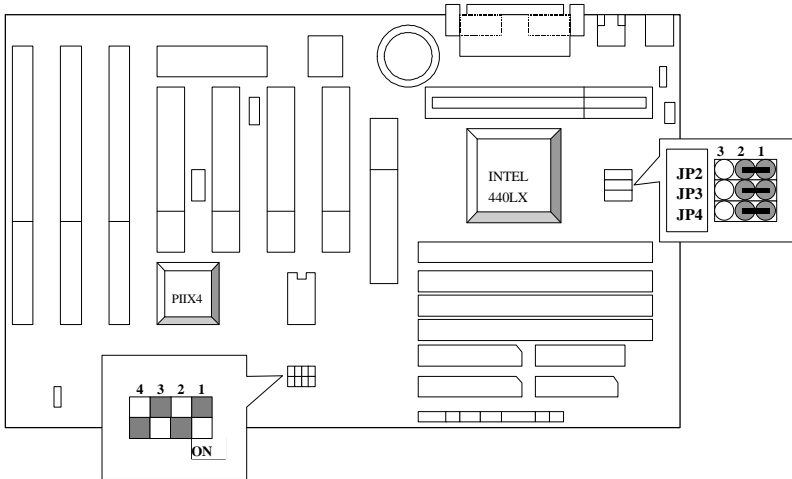
2. Pentium® II 233 MHz



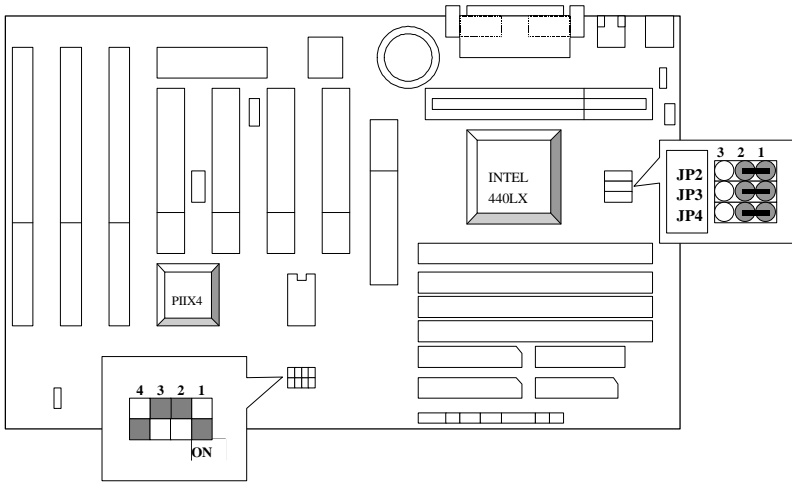
3. Pentium® II 266 MHz



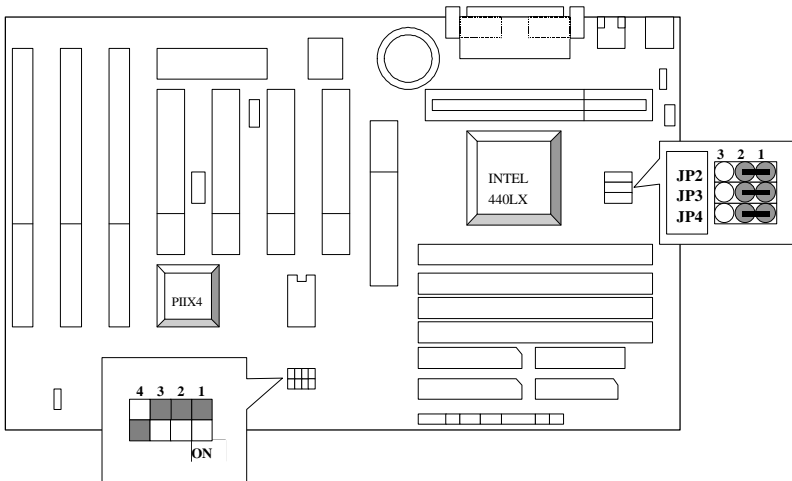
4. Pentium® II 300 MHz



5. Pentium® II 333 MHz

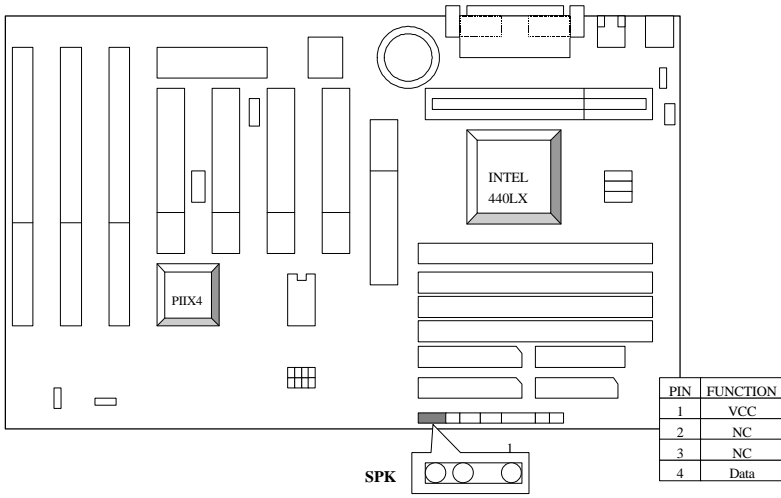


6. Pentium® II 366 MHz

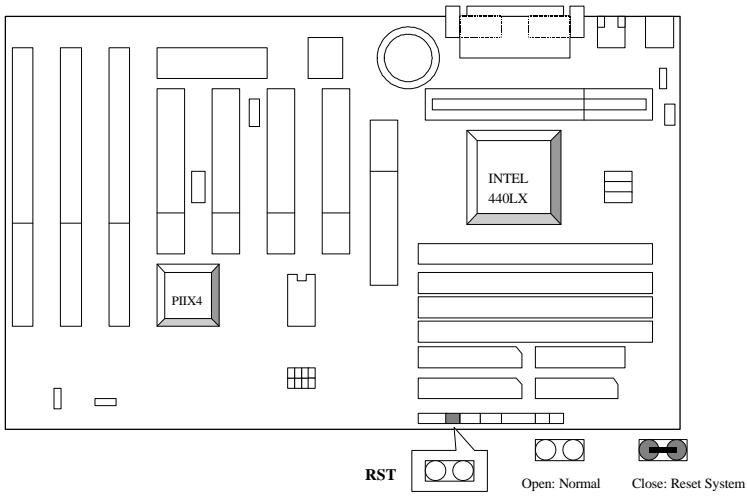


**II. Jumper setting :**

SPK : Speaker Connector

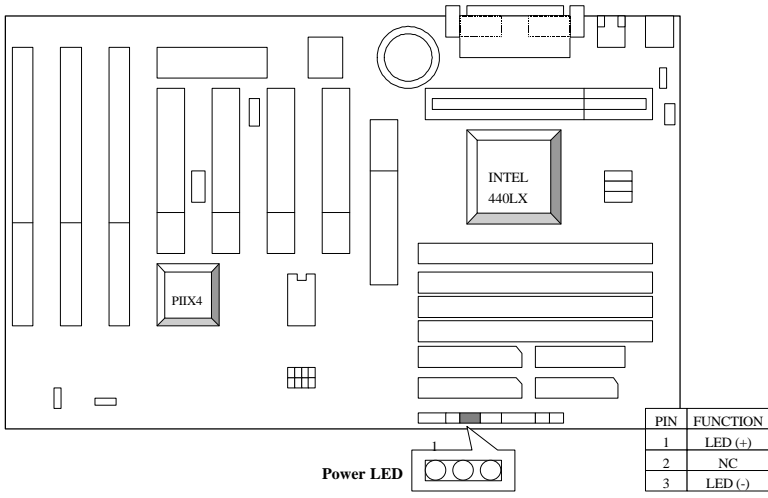


RST : Reset Switch

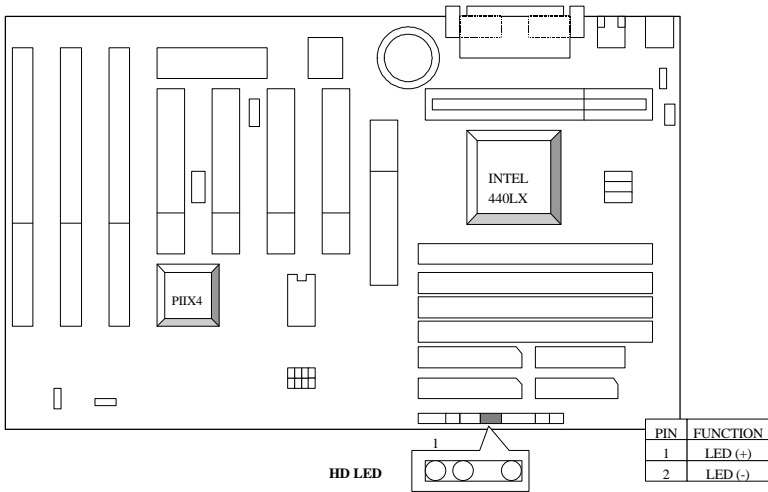


PWR : Power LED Connector

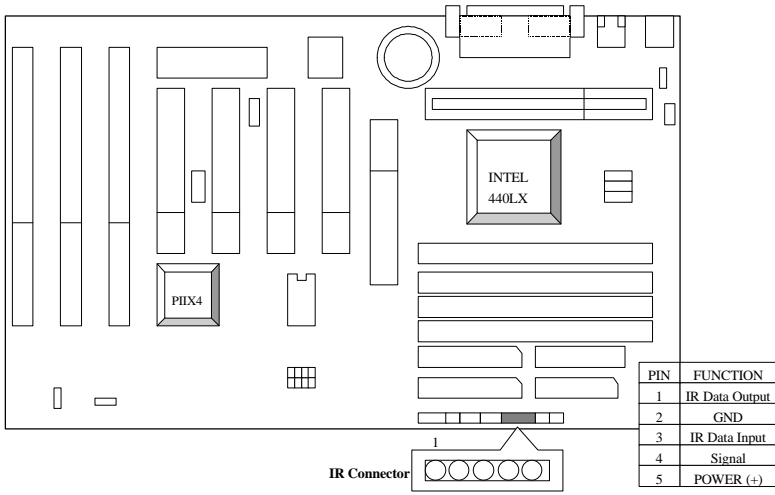




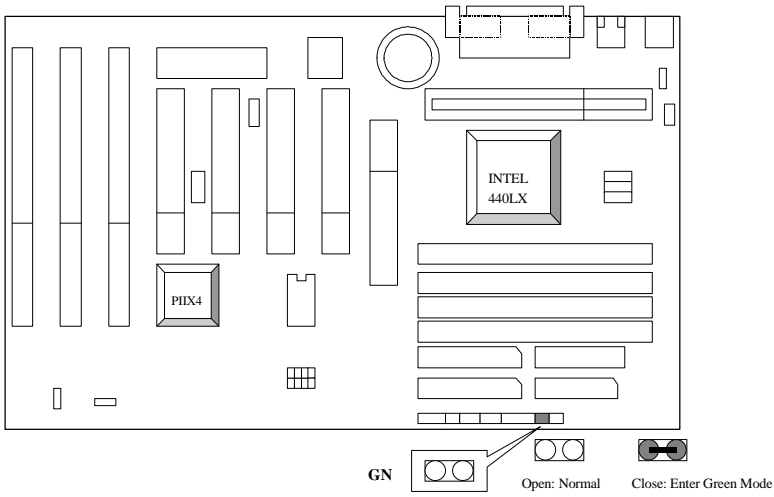
HD : IDE Hard Disk Active LED



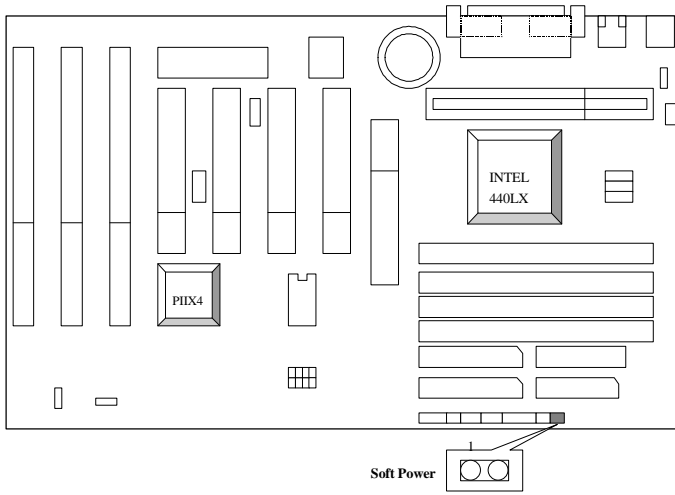
IR : Infrared Connector



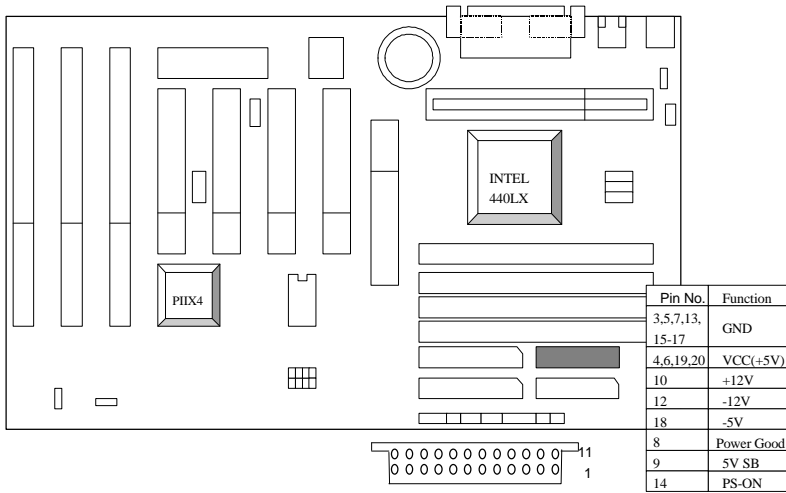
**GN : Green Function Switch**



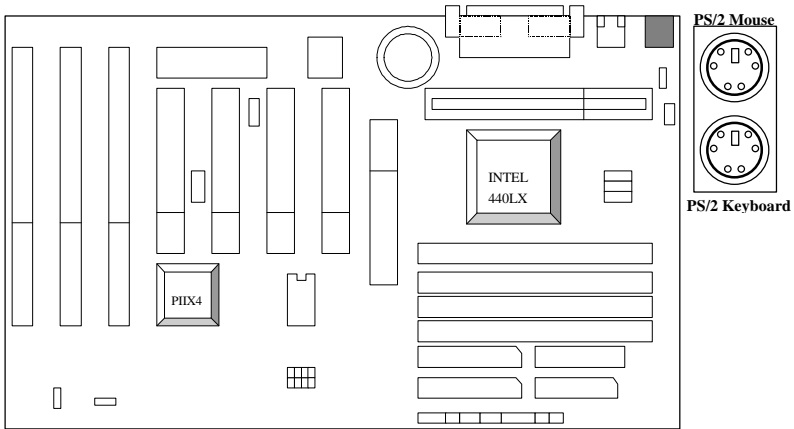
**Soft POWER : Soft Power Connector**



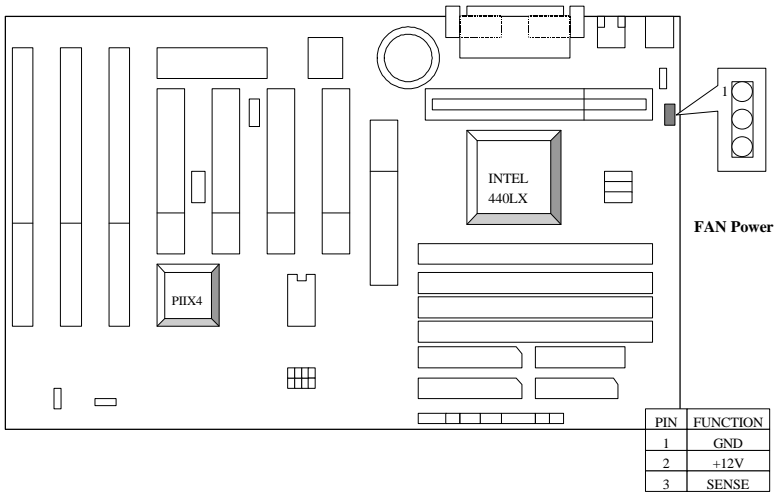
POWER1 : Power Connector



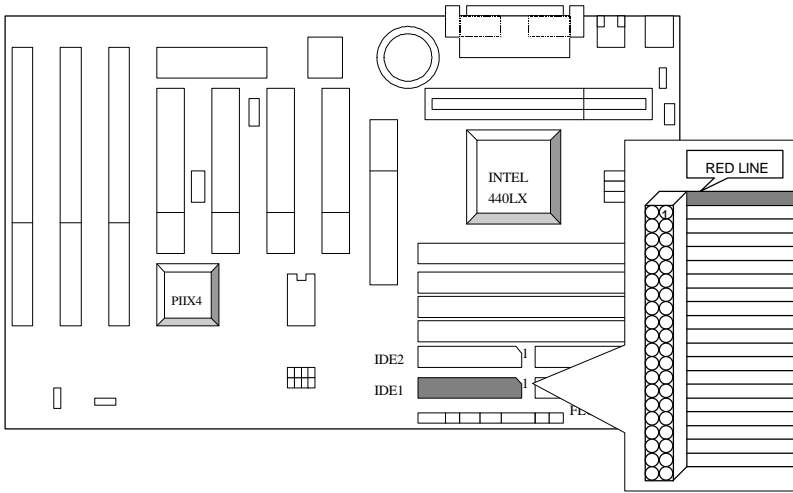
PS/2 Mouse / Keyboard Connector



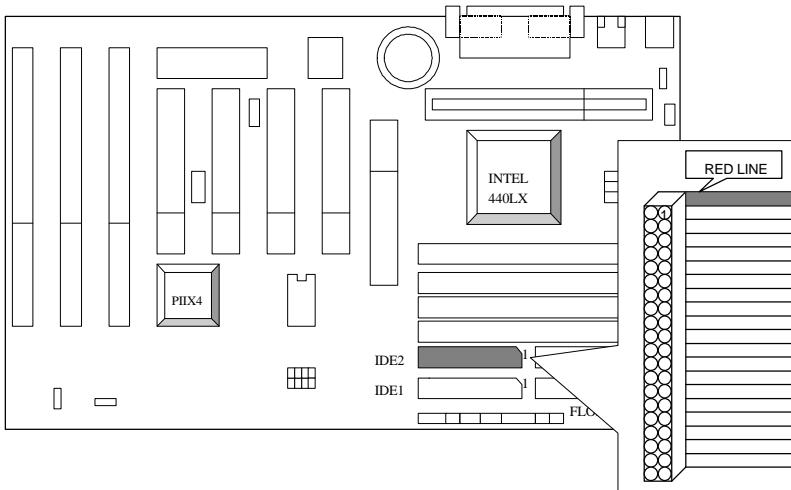
J1 : CPU Cooling Fan Power Connector



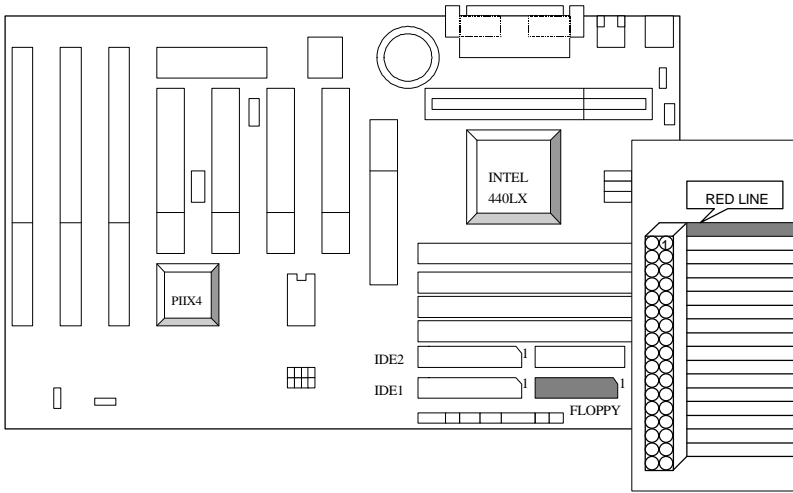
IDE1: For Primary IDE port



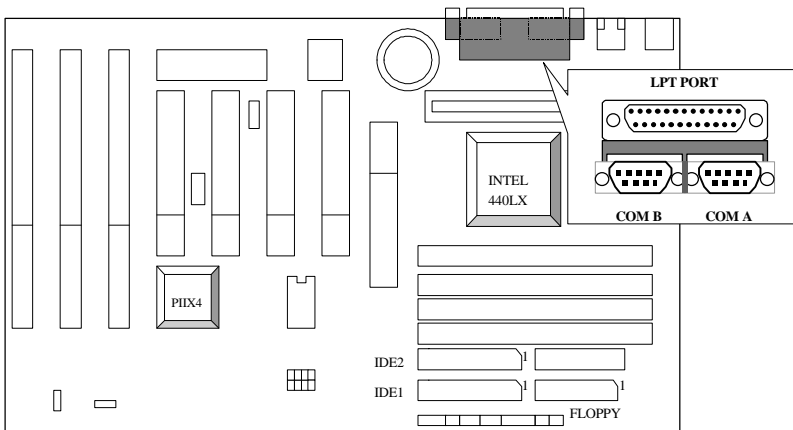
IDE2: For Secondary IDE port



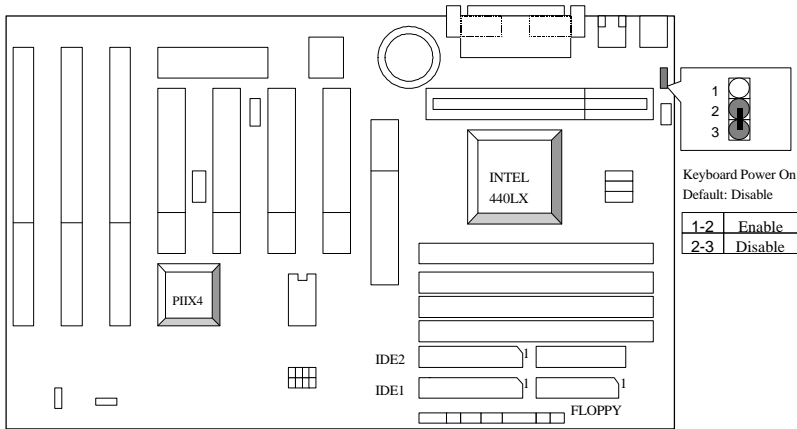
J3 : FLOPPY PORT



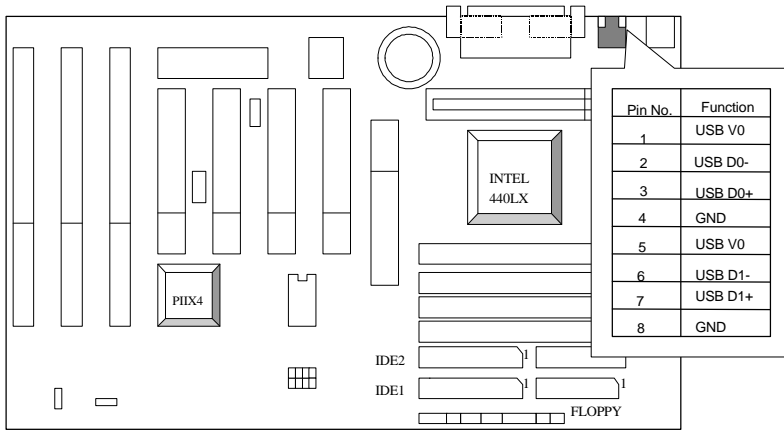
LPT PORT / COM A / COM B



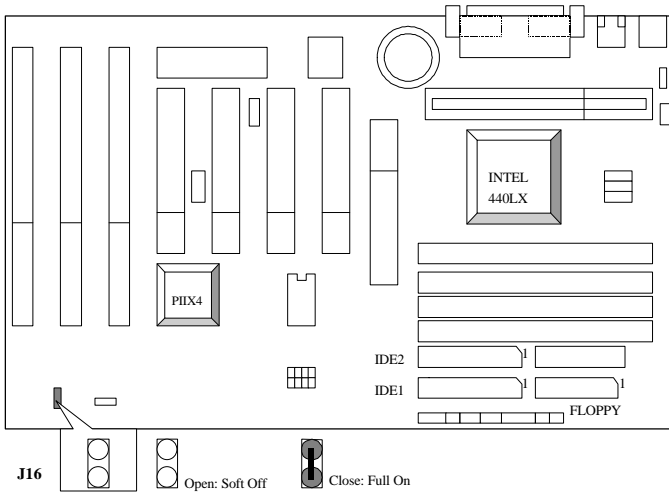
JP1 : Keyboard Power On



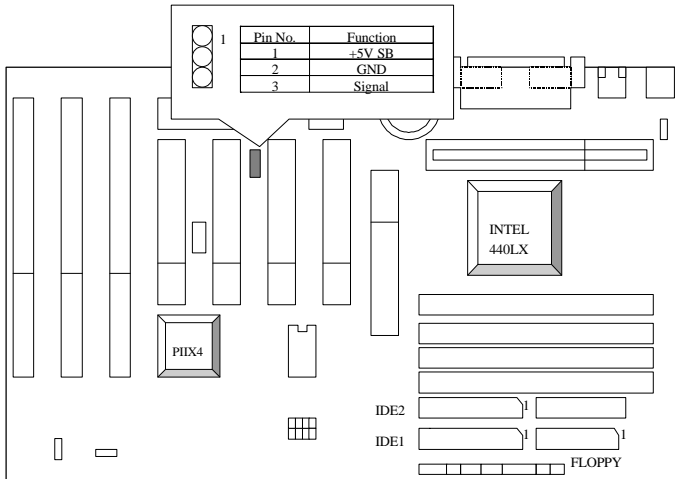
CN1: USB Port



J16: ATX Power Control Selection

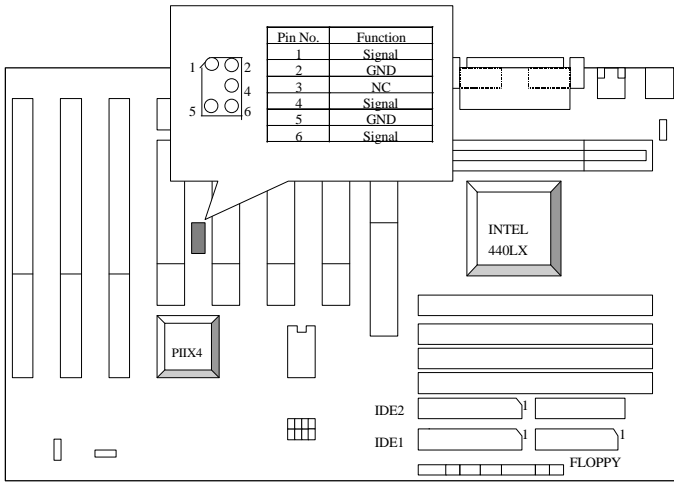


J13:Wake On LAN



J15:Creative PCI Sound Card Support





### III. Top Performance Test Setting:

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

BIOS / ISA BIOS  
 CHIPSET FEATURES SETUP  
 AWARD SOFTWARE, INC.

Auto Configuration	: Enabled	Slow Down CPU Duty Cycle	: Disabled
DRAM Speed Selection	: Fast	CPU Temperature Select	: 70 °C/158 °K
Memory Buffer Strength	: Middle	Current CPU Temperature	: 39 °C/102 °K
DRAM Data Integrity Mode	: Non-ECC	Current CPU/FAN1 Speed	: 4470 RPM
Video RAM Cacheable	: Disabled	Current CPUVCORE_A	: 2.83 V
16 Bit I/O Recovery Time	: 1	Current CPUVCORE_B	: 1.50 V
Memory Hole At 15M-16M	: Disabled	Current +3.3 V	: 2.52 V
Delayed Transaction	: Disabled	Current ±5 V	: 4.00 V
SDRAM RAS-to-CAS Delay	: Fast	Current ±12 V	: 12.28 V
SDRAM RAS Precharge Time	: Fast	Current - 12 V	: -11.81 V
SDRAM CAS Latency Time	: 2	Current - 5 V	: -5.04 V
		Current Battery Life	: OK
		ESC : Quit ; ← → ← → : Select Item	
		F1 : Help ; DEL/END / / : Modify	
		F5 : Old Value ; (Shift)F2 : Color	
		F7 : Load Setup Defaults	