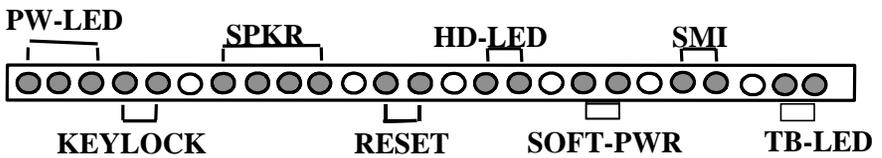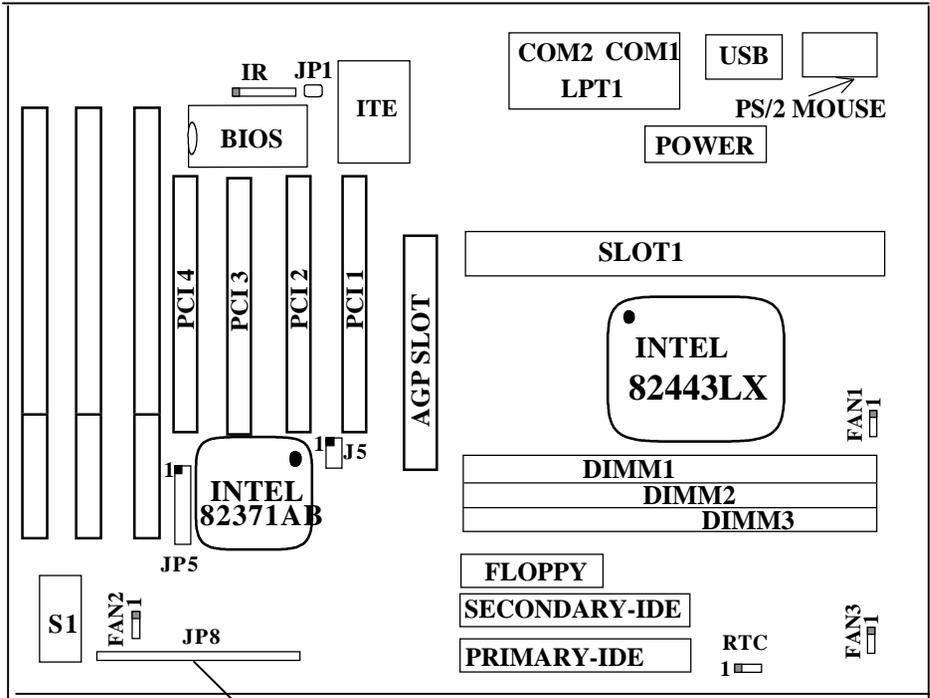# INTEL I440 LX CHIPSET
ATX FORM FACTOR
PENTIUM II SYSTEM BOARD
USER'S MANUAL
(VER : 6ALX2)

1-1 LAYOUT REFERENCE

1-2 JUMPER SETTINGS

1.S1 : CPU TYPE SELECTOR

CPU SPEED	CLOCK SPEED	RATIO	S1
PENTIUM II 200 MHZ	(66MHZ)	3	
PENTIUM II 233 MHZ	(66MHZ)	3.5	
PENTIUM II 266 MHZ	(66MHZ)	4	
PENTIUM II 300 MHZ	(66MHZ)	4.5	
*PENTIUM II 333 MHZ	(66MHZ)	5X	
*PENTIUM II 366MHZ	(66MHZ)	5.5X	

*PENTIUM II 333 and 366MHZ is for reference only. **These 2 CPUs are not available when the manual is published.**

EXPLANATION OF JUMPER SETTING

S1 : CPU CLOCK & FREQUENCY RATIO SELECTOR

S1(1)	60MHz	66.6MHz
	ON 1 2 3 4	ON 1 2 3 4

	3 X	3.5 X	3.5 X	4.5 X	5.X	5.5X
S1(2-4						

The following is for **jumperless** 6ALX2. Please modify **"CPU Clock Ratio"** in "**3-4 Chipset Features Setup**." First, go to "**3-4 Chipset Features Setup**" and set proper **"CPU Clock Ratio."** Then, go to "**3-1 Award BIOS Setup**" and save the change. The user does not have to set jumpers as **"2-2 Jumper Settings."**

CHIPSET FEATURES SETUP

ROM PCI BIOS
CHIPSET FEATURES SETUP
AWARD SOFTWARE, INC.

```
AUTO CONFIGURATION      :ENABLED        SDRAM CAS LATENCY TIME    :3
DRAM SPEED SELECTION     :60NS           CPU CLOCK RATIO           : 5.5/366MHZ
MA WAIT STATE            :SLOW           AUTO DETECT DIMM/PCI CLK : DISABLED
EDO RAS# TO CAS DELAY    :2              SPEED SPECTRUM            : DISABLED
EDO RAS# PRECHARGE TIME  :3              CLOCK TURBO MODE          : DISABLED
EDO DRAM READ BURST      :X333
EDO DRAM WRITE BURST     :X333
DRAM DATA INTEGRITY MODE   :NON-ECC
CPU-TO-PCI IDE POSTING      :ENABLED
SYSTEM BIOS CACHEABLE     :ENABLED
VIDEO BIOS CACHEABLE      :ENABLED
VIDEO RAM CACHEABLE       :DISABLED
8 BIT I/O RECOVERY TIME   :1
16 BIT I/O RECOVERY TIME  :2             ESC : QUIT
MEMORY HOLE AT 15M-16M   :DISABLED       F1 : HELP
PASSIVE RELEASE           :ENABLED       F5 : OLD VA
DELAYED TRANSACTION      :DISABLED
```

*CPU CLOCK RATIO
Press **"+"** or **" □"** to choose **" CPU Clock Ratio" a**ccording to your CPU frequency. The screen will show the following choices:

P-II 133 υ **"2.0/133MHZ"**   P-II 166 υ **"2.5/166MHZ"**
P-II 200υ **"3.0/200MHZ"**   P-II 233 υ **"3.5/233MHZ"**
P-II 266 υ **"4.0/266MHZ"**   P-II 300υ **"4.5/300MHZ "**
P-II 333 υ**"5.0/333MHZ"**   P-II 366υ **"5.5/366MHZ."**

Also note that wrong **"CPU Clock Ratio"** leads to wrong system setup.

*CLOCK TURBO MODE
If this item is modified to "**ENABLED**," **CPU BUS SPEED** may increase from 66MHZ to 75MHZ, but interface card for PCI SLOT must bear a higher frequency over 33MHZ. Without the card, this functioned is not suggetsd to be used.

2. **RTC** : BATTERY SELECTOR (BLACK JUMPER CAP)

	NORMAL	CLEAR CMOS
RTC	1-2 **(DEFAULT)**	**2-3**

☞ **CUSTOMERS NEED TO CLEAR CMOS, THEN RECONFIGURE IT IF FORGET PASSWORD FOR BIOS SETUP.**

3. SOFTPWR : ATX POWER SWITCH
The system power is controlled by a momentary switch (when "power switch type" is set to momentary) connected to this lead. Pushing the button once will turn on the system and pushing another time will turn off the system. The system power LED shows the status of the system's power.   This connection does not have a function when a standard power supply is used.

4. OTHER JUMPER SETTINGS AND CONNECTORS :
PRIMARY
     : PRIMARY IDE CONNECTOR.
SECONDARY : SECONDARY IDE CONNECTOR
FLOPPY   : FLOPPY DISK CONNECTOR .
PRINTER   : PARALLEL PORT CONNECTOR.
COM1   : SERIAL PORT 1 CONNECTOR.
COM2   : SERIAL PORT 2 CONNECTOR.
MOUSE   : PS/2 MOUSE CONNECTOR.
KBD   : PS/2 KEYBOARD CONNECTOR.
USB   : USB (UNIVERSAL SERIAL BUS) CONNECTOR
J5   : SB-LINK (OPTIONAL).
JP5   : AUTO SENSOR FAN CONNECTOR (OPTIONAL).

5. FAN1, FAN2, FAN3 : CPU FAN CONNECTOR

CPU FAN PIN OUT					
PIN1	SENSOR	**PIN2**	+12V	**PIN3**	GND

NOTE : USB (UNIVERSAL SERIAL BUS) AND IRCON CONNECTOR
        ARE OPTIONAL.

6. IR1 : IR (INFRARED) CONNECTOR

IR CONNECTOR PIN OUT						
PIN 1	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**	**PIN 6**	**PIN 7**
RX	GND	TX	+5V	RXH	VCC	GND

NOTE : IR1 USES THE SAME I/O PORT AS COM2. THERE IS NO ANY
HARDWARE JUMPER SETTING FOR IRCON/COM2 ON THIS
        MAIN BOARD BUT CUSTOMERS NEED TO SET PROPER BIOS
        SETTING FOR "**IRDA1.0**","**ASKIR**" OR "**standard**"(DEFAULT)
UNDER "INFRA RED (IR) FUNCTION" OF "INTEGRATED
        PERIPHERALS"