

# 6EA

## 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 (dependent on the specification of keyboards), 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. **Internal Modem Ring-On .**  
Modem Ring-On (COMA , COM B)
4. **Wake-up on LAN supports.** (The ATX power supply supports larger than 720 mA 5V Stand-By current).

For Intel Pentium® II / Celeron™ Processor MAINBOARD  
REV. 3.1 First Edition  
R-31-01-081105



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Nov 05, 1998 Taipei, Taiwan

## I. Quick Installation Guide :

### CPU SPEED SETUP

The system bus speed can be selectable between 66.6MHz. The user can select the system bus speed (JP2,JP3,JP4) and change the DIP SWITCH (SW) selection to set up the CPU speed for 233 - 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)			
	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
X 6	ON	ON	ON	OFF
X 6.5	OFF	ON	ON	OFF

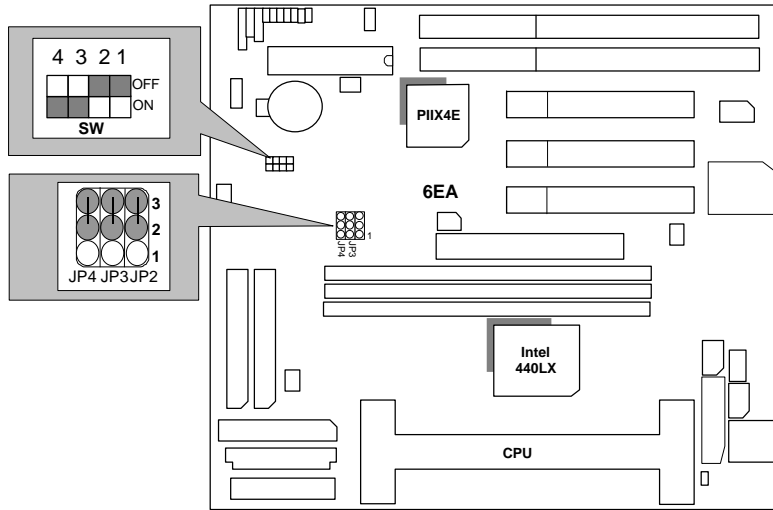
● **JP2, JP3, JP4** (Select the system speed; 66.6 / 75 / 83 MHz )

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

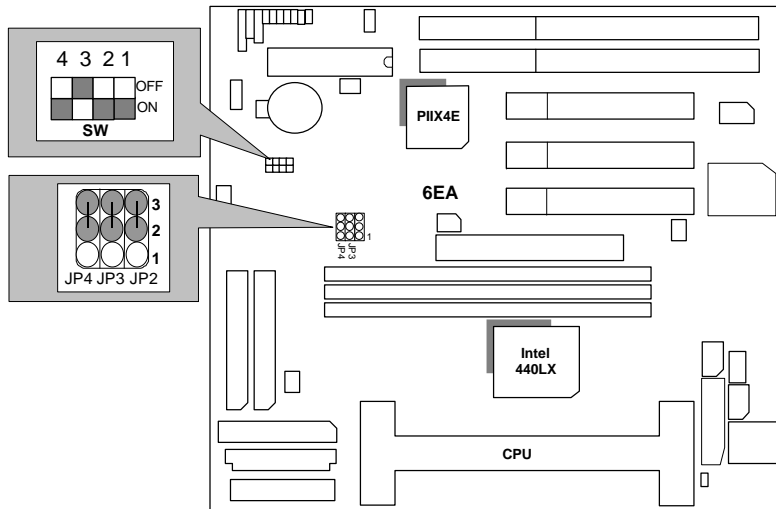
★ **Note: We don't recommend you to setup your system speed to 75 or 83MHz because these frequencies are not the standard specifications for CPU, Chipset and most of the peripherals. Whether your system can run under 75 or 83MHz properly will depend on your hardware configurations: CPU, SDRAM, Cards,**

etc.

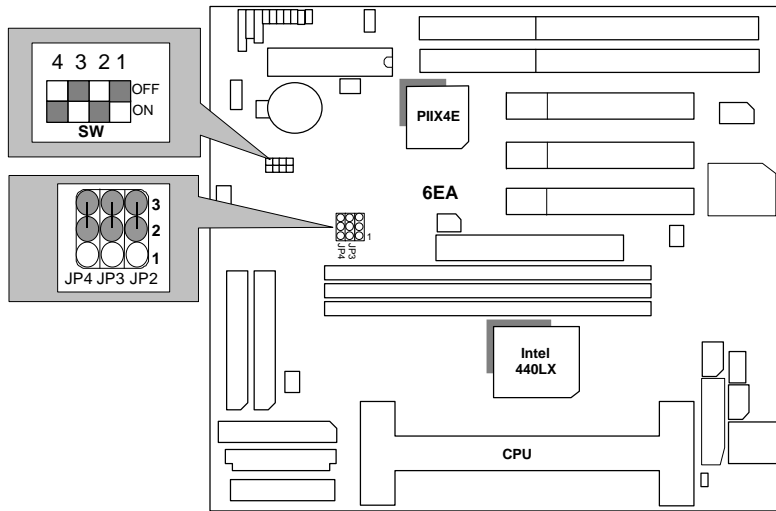
1. Pentium® II / Celeron 233 / 66 MHz FSB



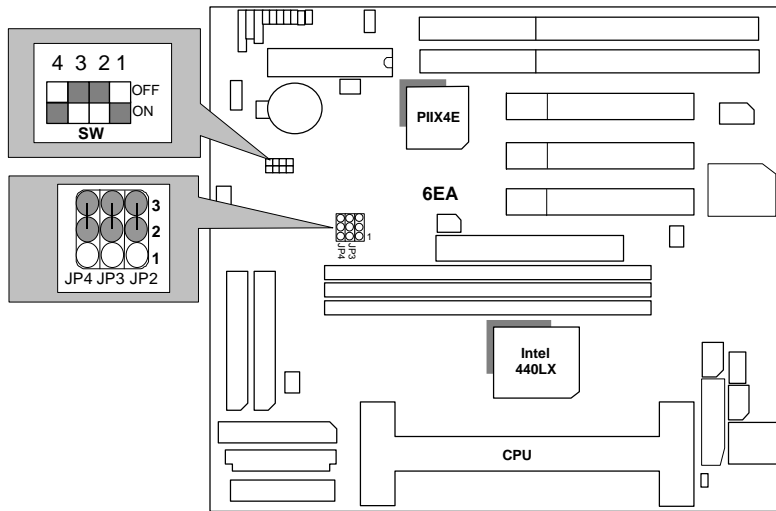
2. Pentium® II / Celeron 266 / 66 MHz FSB



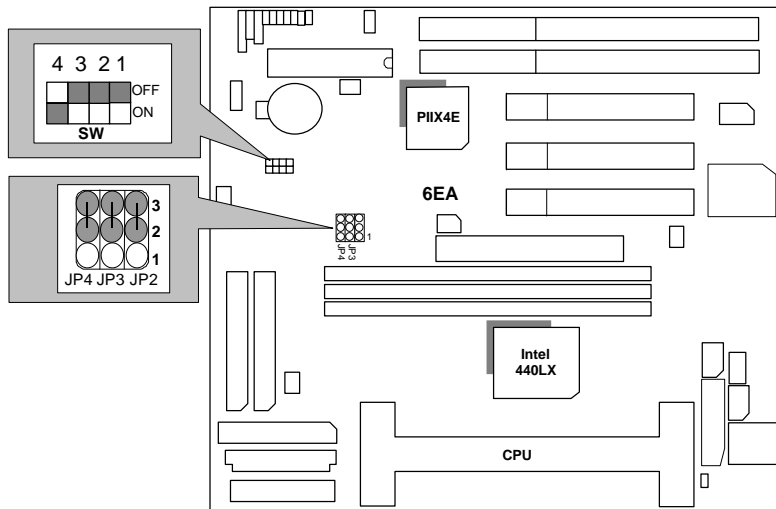
3. Pentium® II / Celeron 300 / 66 MHz FSB



4. Pentium® II / Celeron 333 / 66 MHz FSB  
Celeron 300A / 66MHz FSB

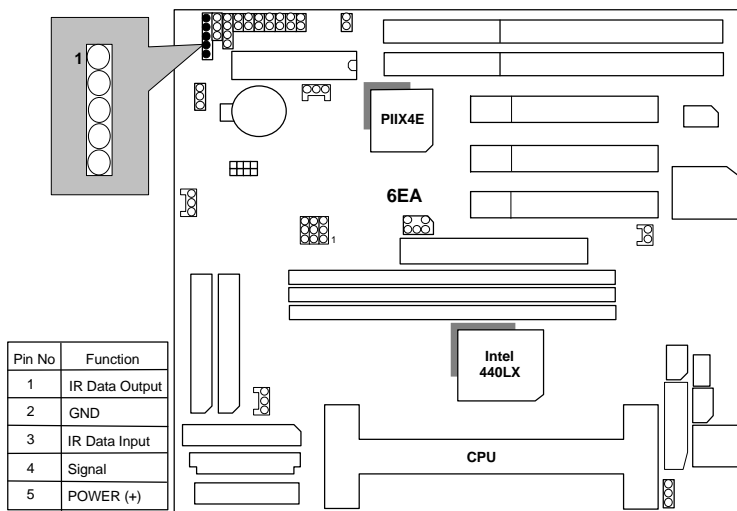


5. Pentium® II / Celeron 366 / 66 MHz FSB



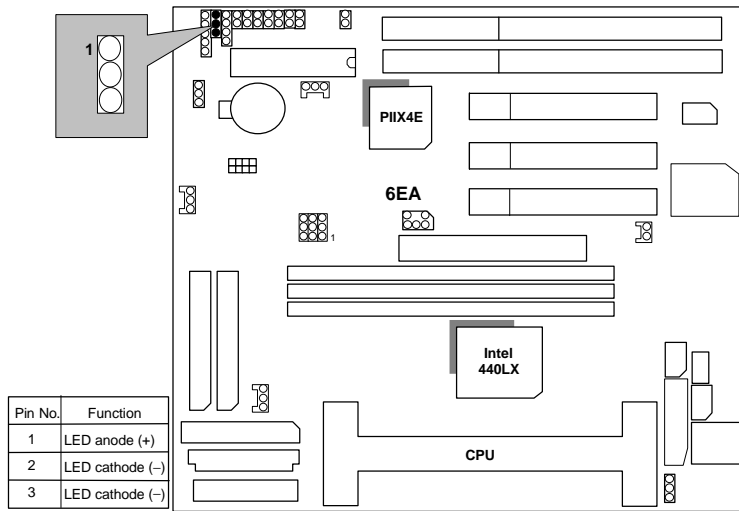
## II. Jumper setting :

IR : Infrared Connector (Optional)

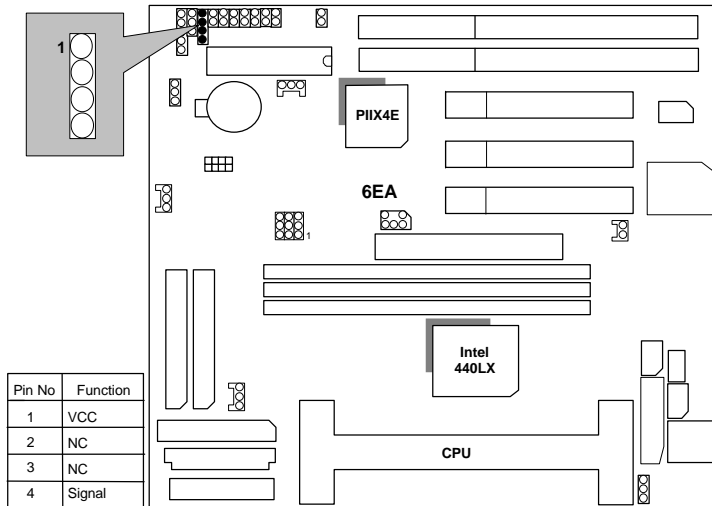


PWR : Power LED

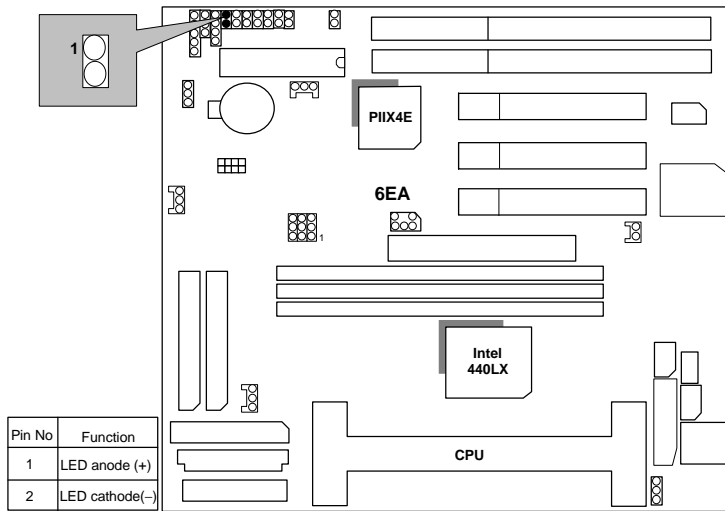




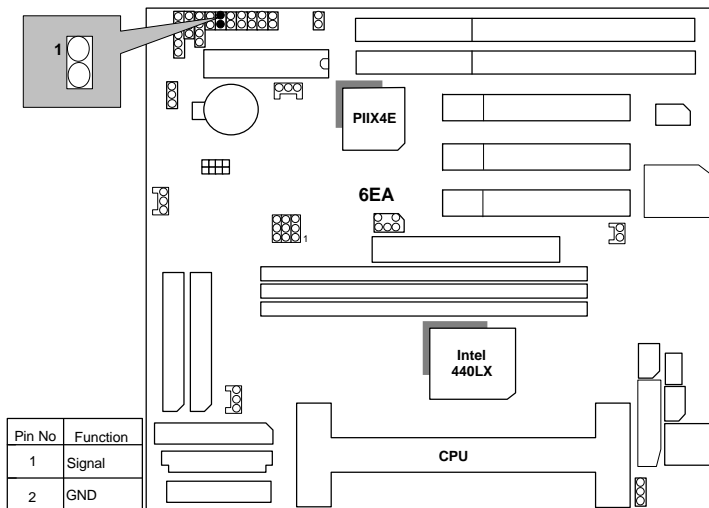
SPK : Speaker Connector



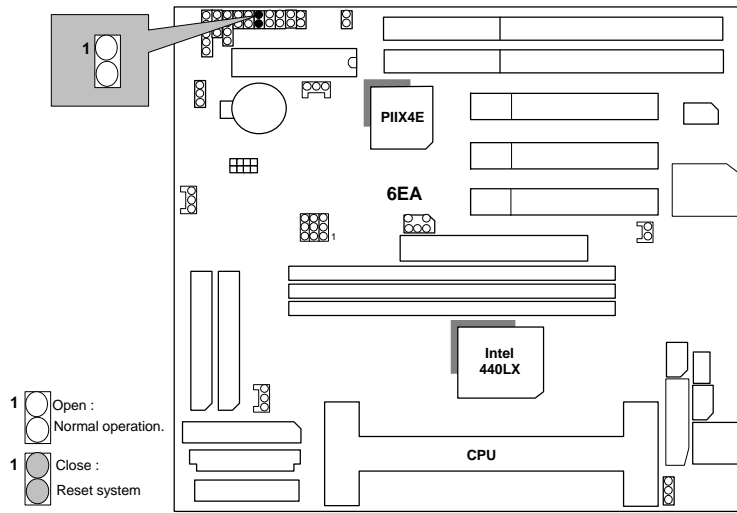
TD : Turbo LED Connector



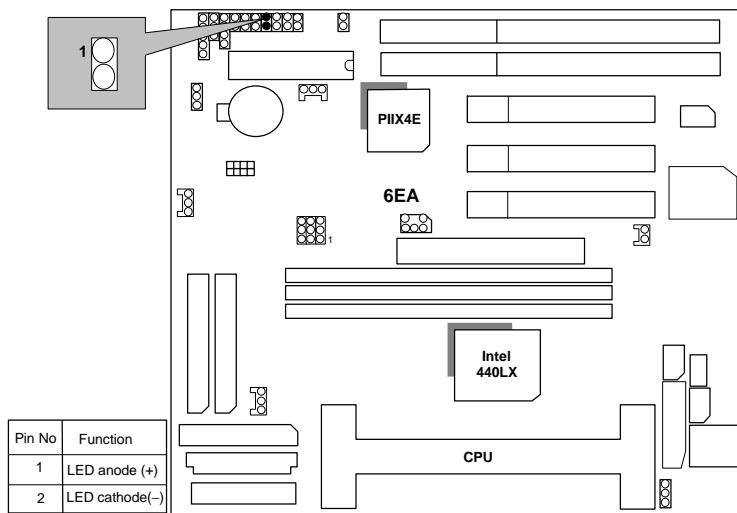
TB : Turbo Switch Connector



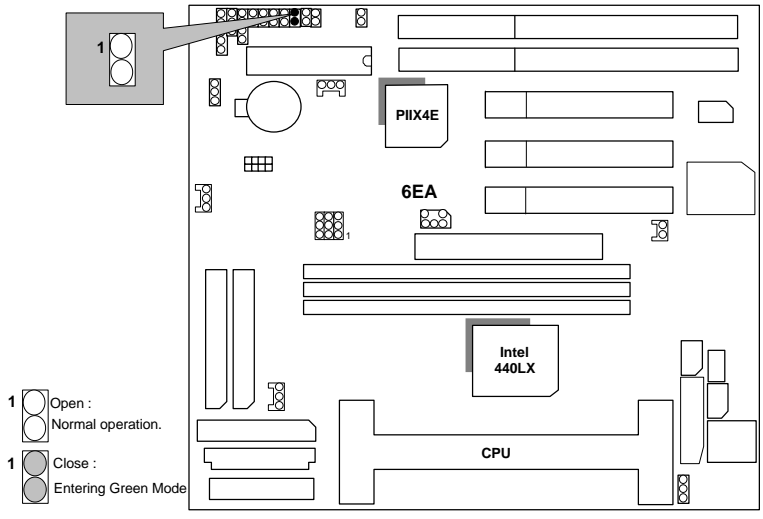
RST : Reset Switch



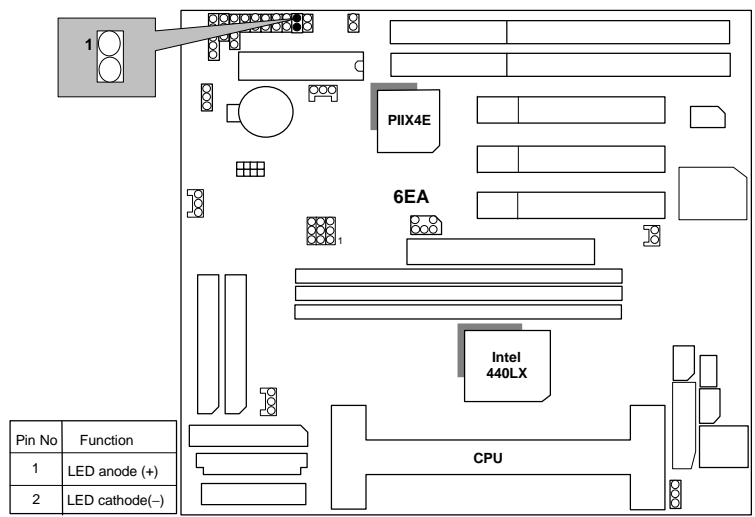
GD : Green LED Connector



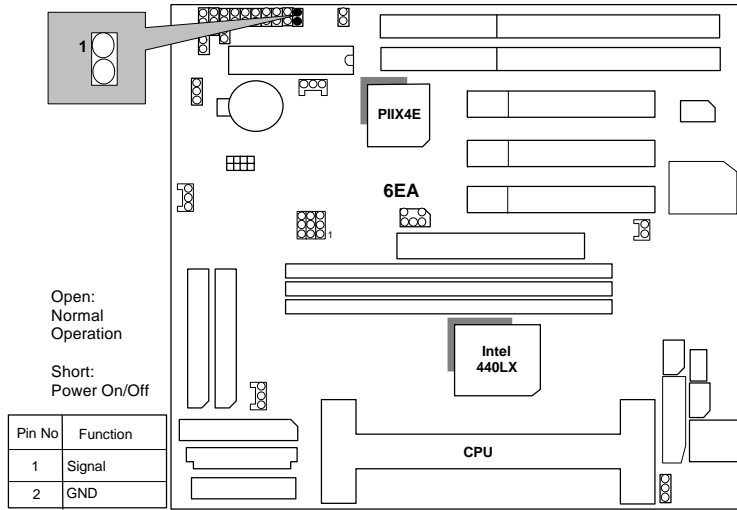
**GN : Green Function Switch**



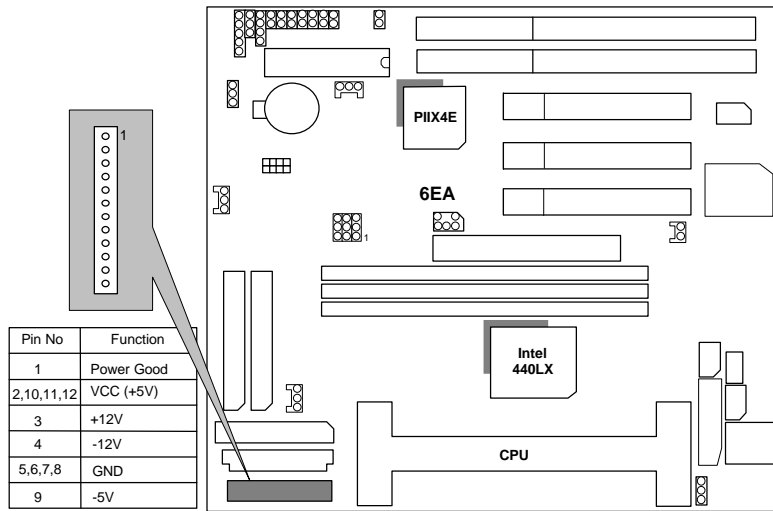
**HD : IDE Hard Disk Active LED**



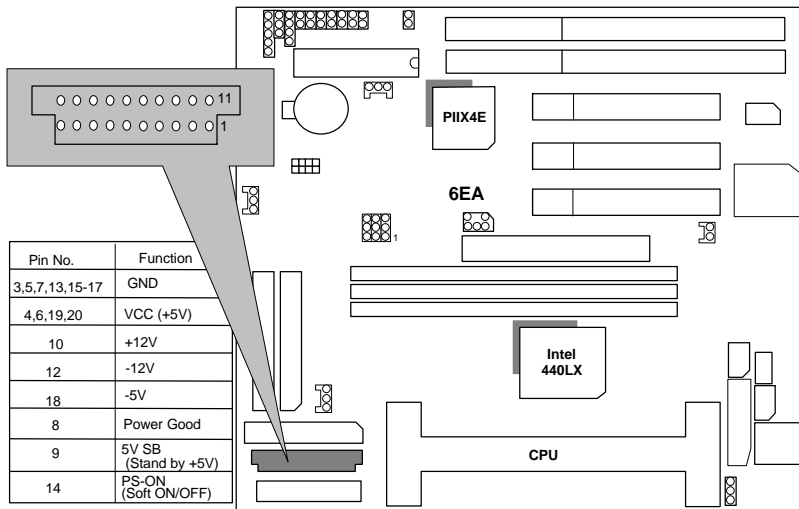
Soft PWR : Soft Power Connector



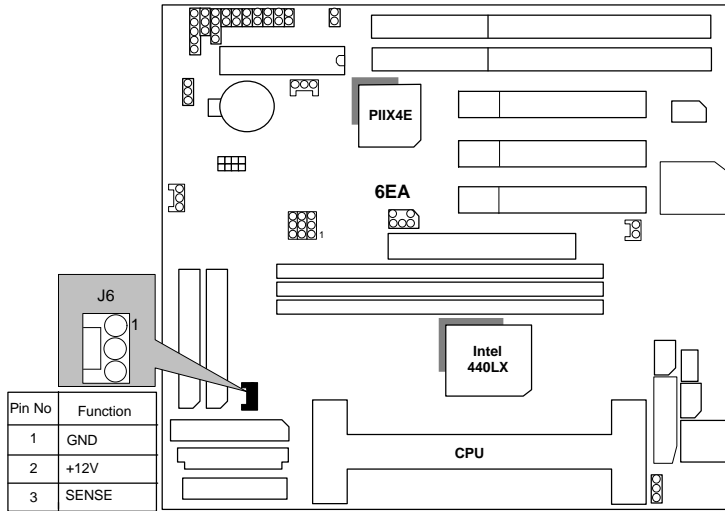
POWER : Power Connector



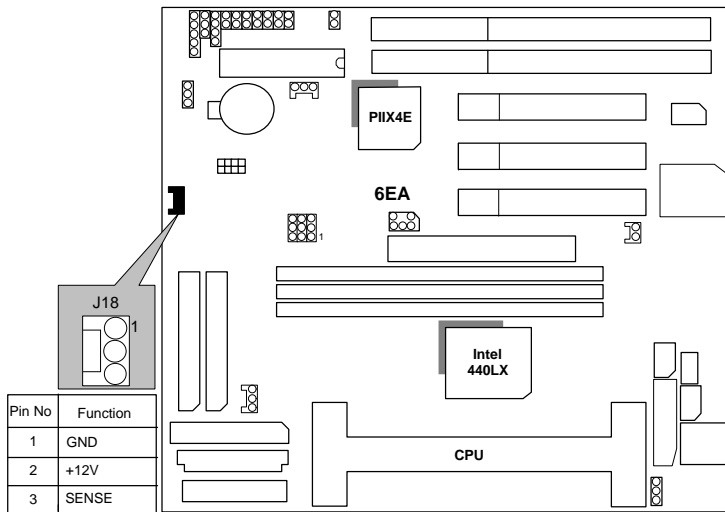
ATX POWER : ATX POWER Connector



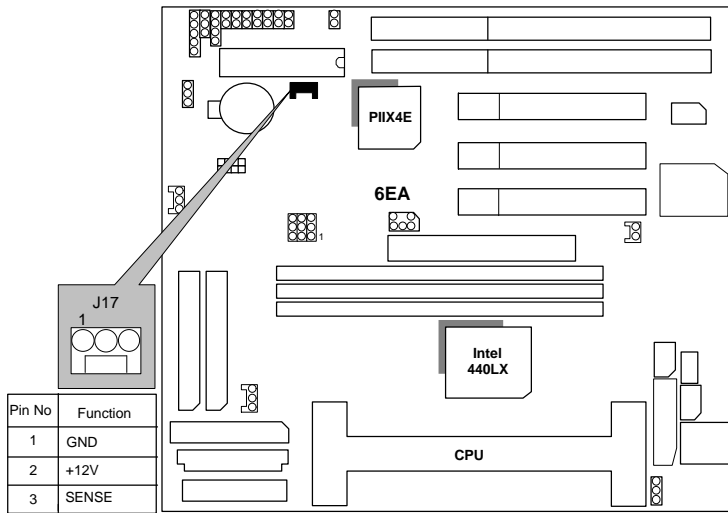
J6 : CPU FAN Connector (CPU Cooling Fan Power Connector)



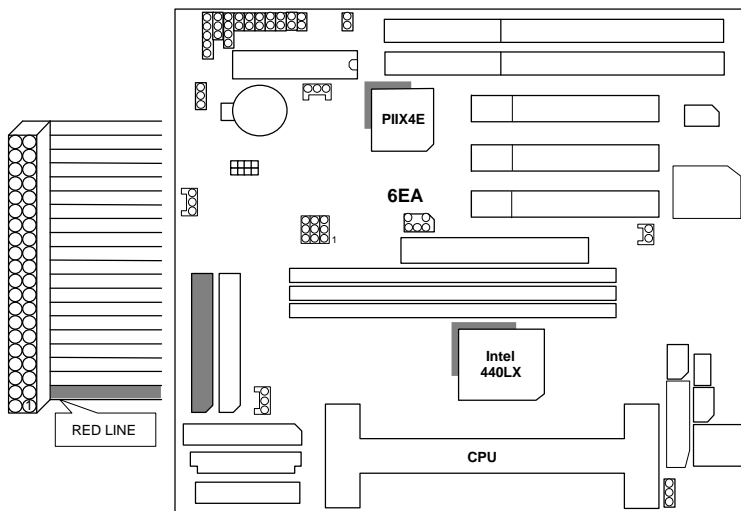
J18 : Power FAN Connector



J17 : SYSTEM FAN Connector

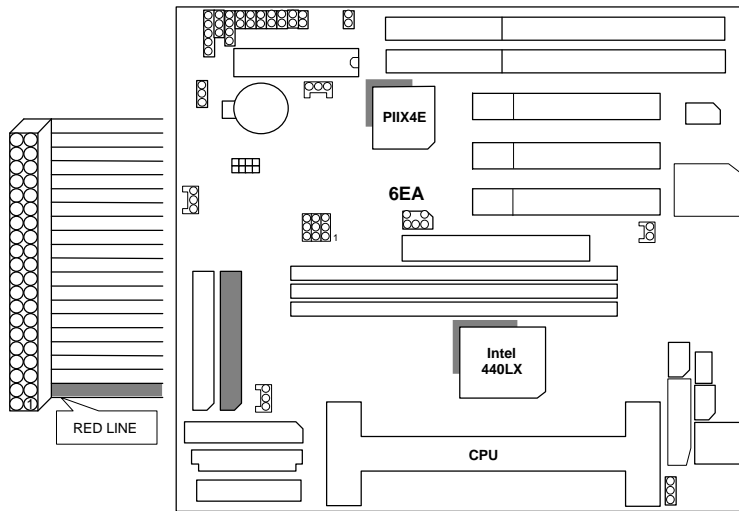


IDE1: For Primary IDE port

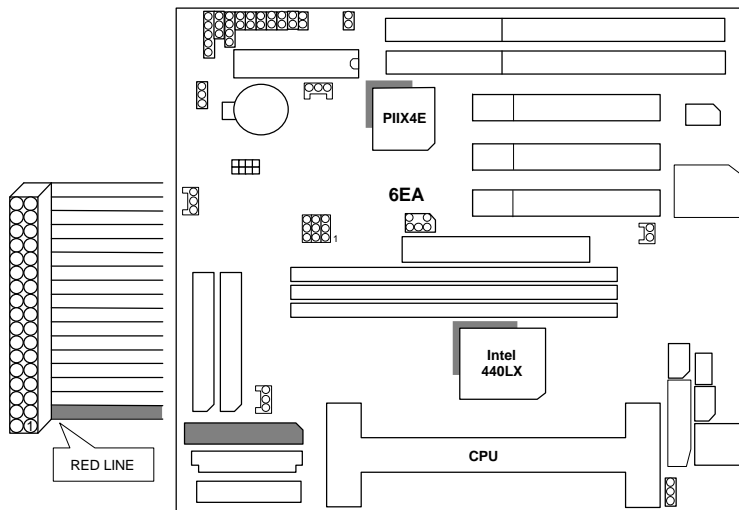


IDE2: For Secondary IDE port

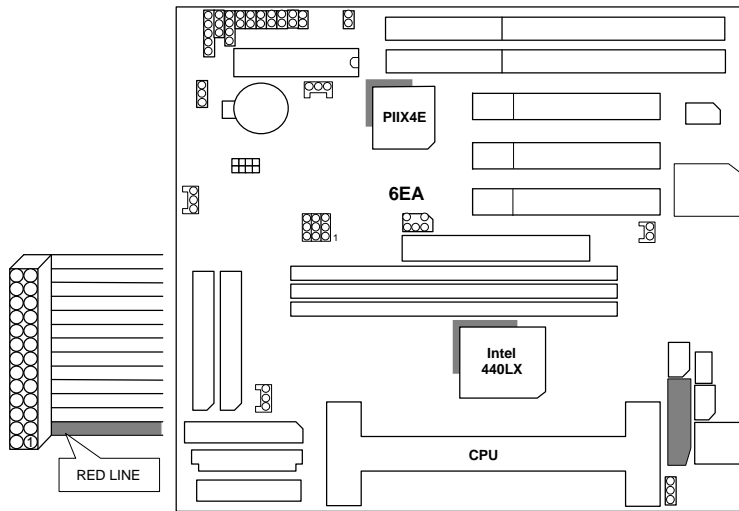




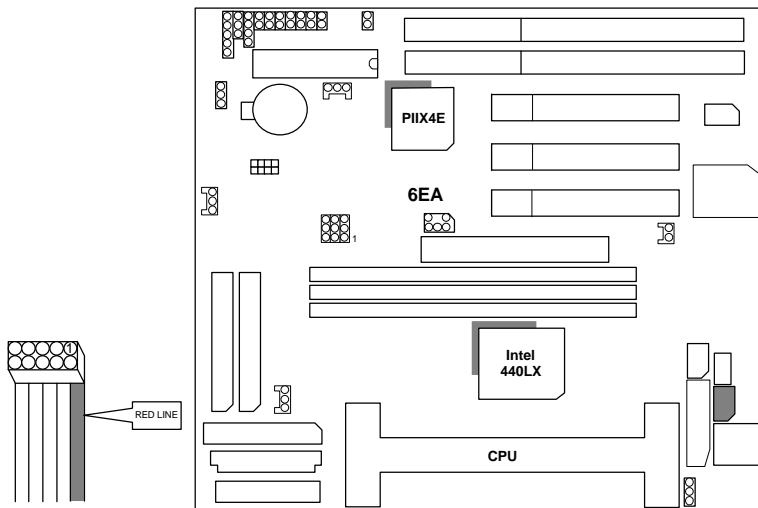
FLOPPY : FLOPPY PORT



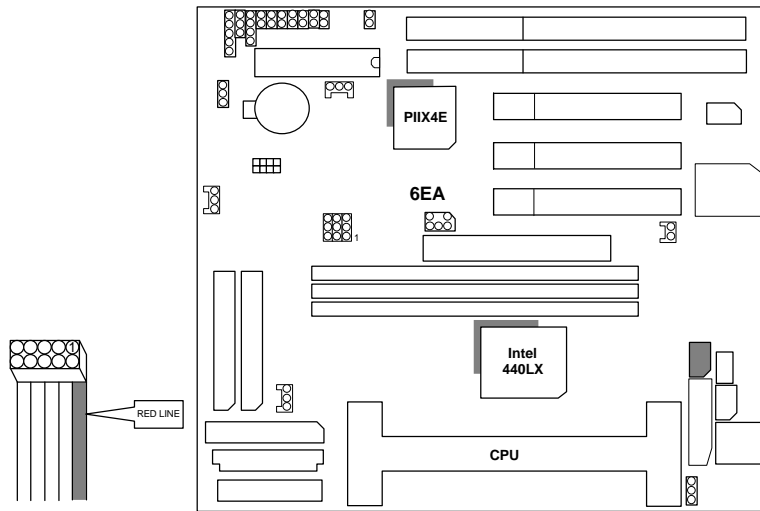
LPT : LPT PORT



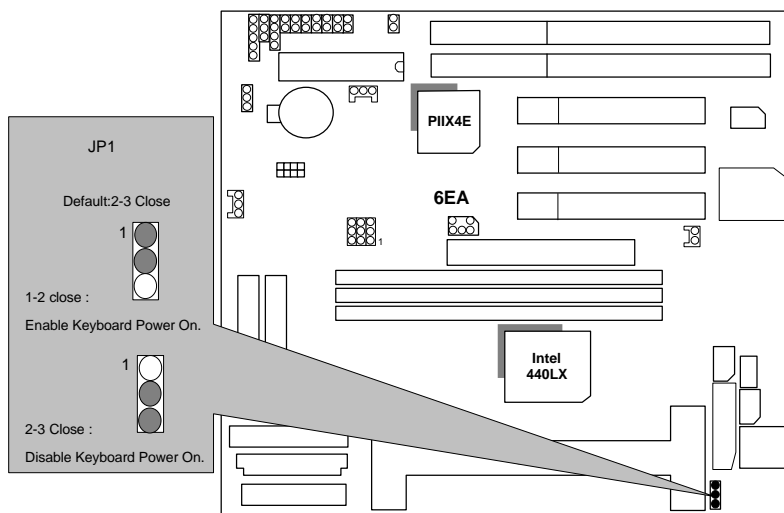
COMB : COM B PORT



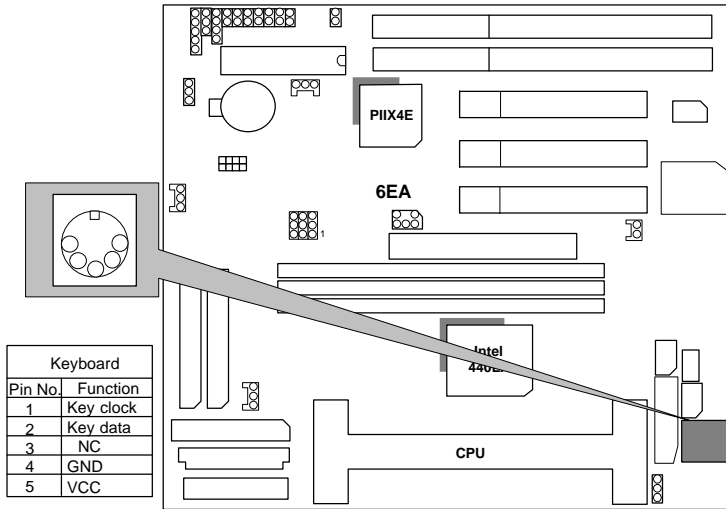
COMA : COM A PORT



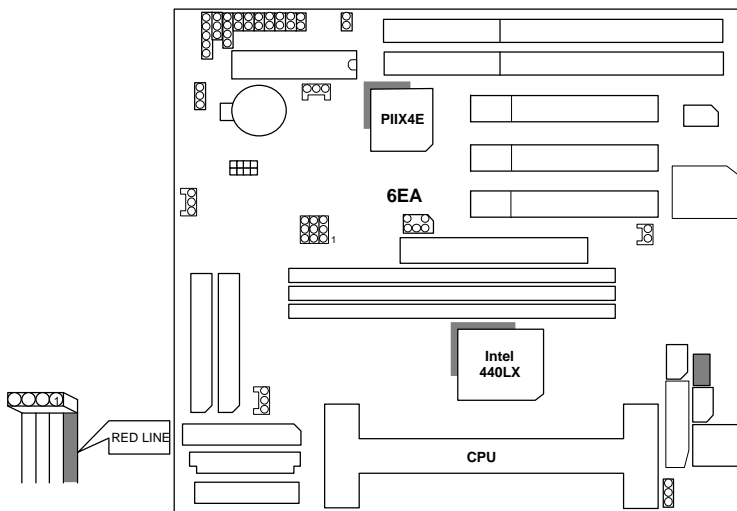
JP1 : Keyboard Power On (for ATX Power Supply only)



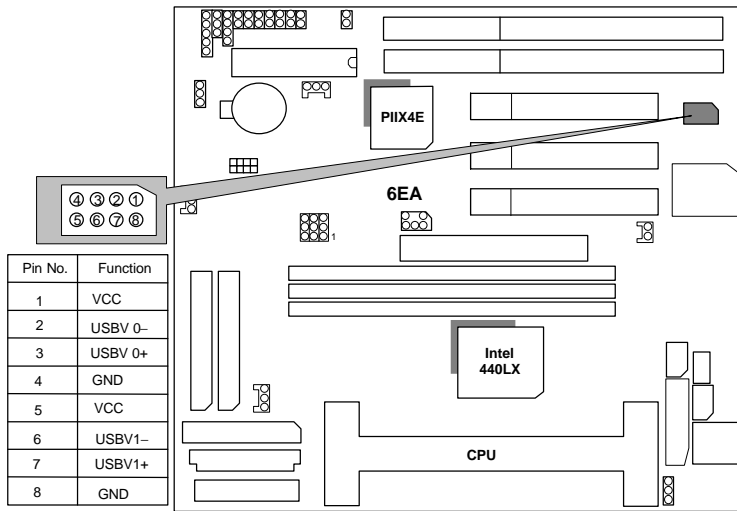
K.B : Keyboard Connector



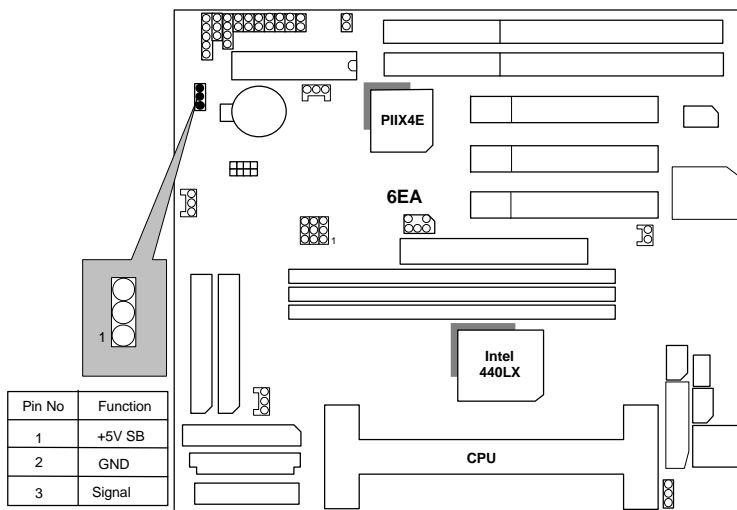
J7 : PS/2 MOUSE



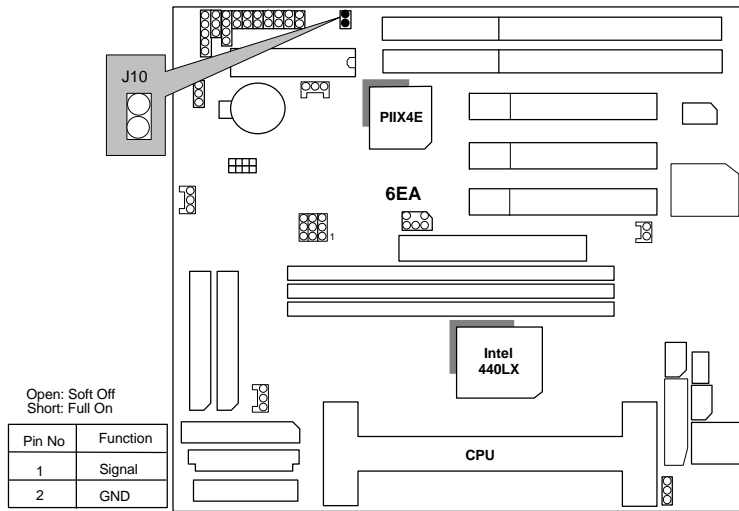
USB : USB Port



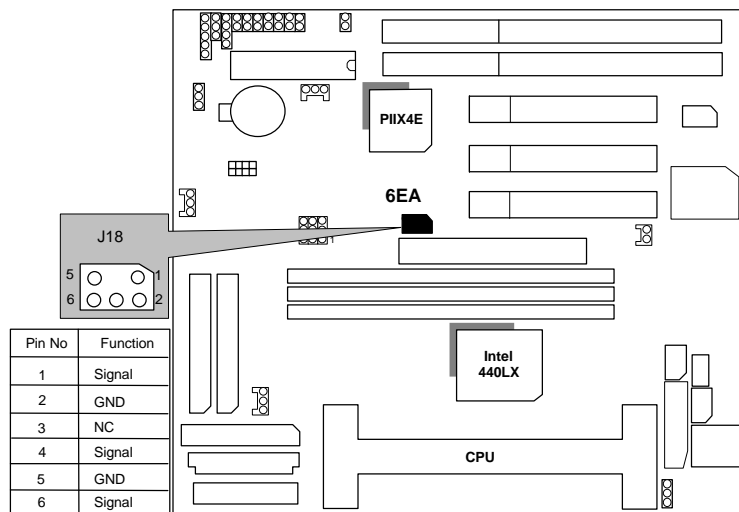
Wake on Lan (for ATX Power Supply only)



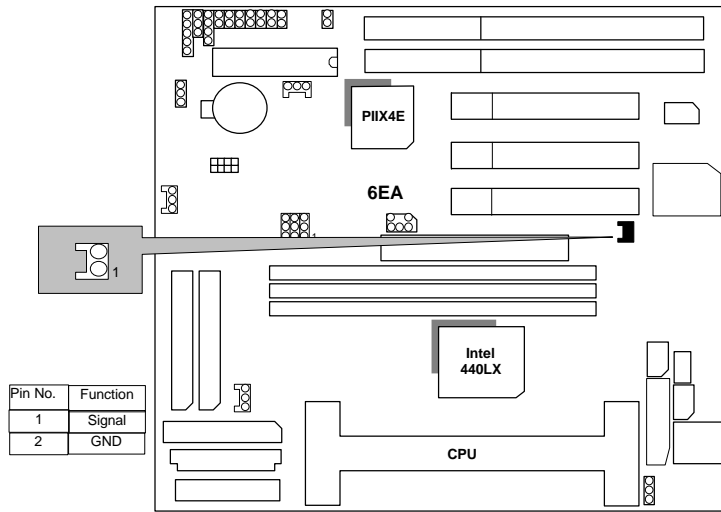
J10 : ATX Power Control Selection



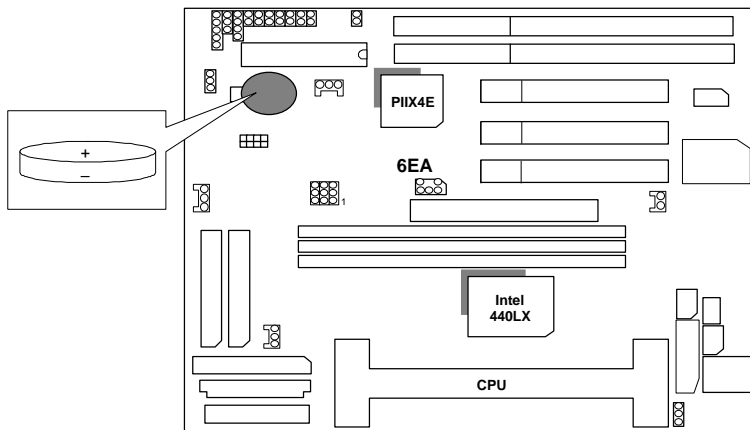
J18 : SB-LINK (Creative PCI Sound Card Support)



JP10 : RING POWER ON



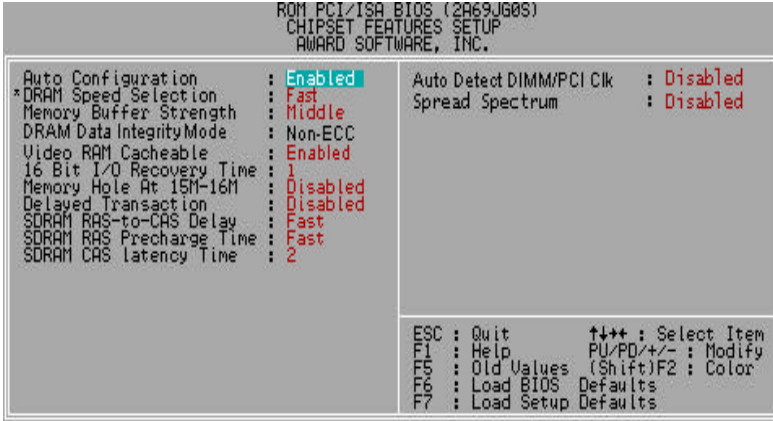
BAT1 : For Battery



- ⚠ 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:

Users have to modify the value for each item in chipset features as follow



for top performance setting.

\*\* 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 .



The following performance data list is the testing results of some popular benchmark testing programs.

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 / Celeron processor
- DRAM (64x 2) MB SDRAM (LGS GM72V66841CT7J)
- CACHE SIZE 128/512 KB included in CPU
- DISPLAY GA-612 AGP Display Card (8MB SGRAM)
- STORAGE Onboard IDE (Seagate ST34520A)
- O.S. Windows NT™ 4.0
- DRIVER Display Driver at 1024 x 768 x 64K colors x 75Hz.  
TRIONES Bus Master IDE Driver 3.70

Processor	Celeron	Pentium® II
	333MHz(66x5)	333MHz(66x5)
<b>Winbench98</b>		
CPU mark32	667	845
FPU Winmark	1790	1720
Business Disk	2100	2140
Hi-End Disk	5130	5150
Business Graphics	94.8	94.3
Hi-End Graphics	147	142
<b>Winstone98</b>		
Business	30.6	31.4
Hi-End	32.2	32.5

