

6EM

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 720 mA 5V Stand-By current, you can power on your system by entering password and then pressing ENTER key from the Keyboard after setting the "Keyboard power on" jumper (JP1) and password in CMOS Setup.
3. **Modem Ring-On on COM A&B.**
4. **Wake-up on LAN supports:** Your ATX power supply must support larger than 600 mA 5V Stand-By current.
5. **Supports 3 steps ACPI LED.**
6. **Support 66MHz (75 and 83MHz are optional).**

Pentium® II Processor MAINBOARD

REV. 1.0 First Edition

R-01-01-080529

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.

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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				
ON	OFF	ON	ON	3	66	200	Pentium® II 200 MHz
OFF	OFF	ON	ON	3.5	66	233	Pentium® II 233 MHz
ON	ON	OFF	ON	4	66	266	Pentium® II 266 MHz
OFF	ON	OFF	ON	4.5	66	300	Pentium® II 300 MHz
ON	OFF	OFF	ON	5	66	333	Pentium® II 333 MHz
OFF	OFF	OFF	ON	5.5	66	366	Pentium® II 366 MHz

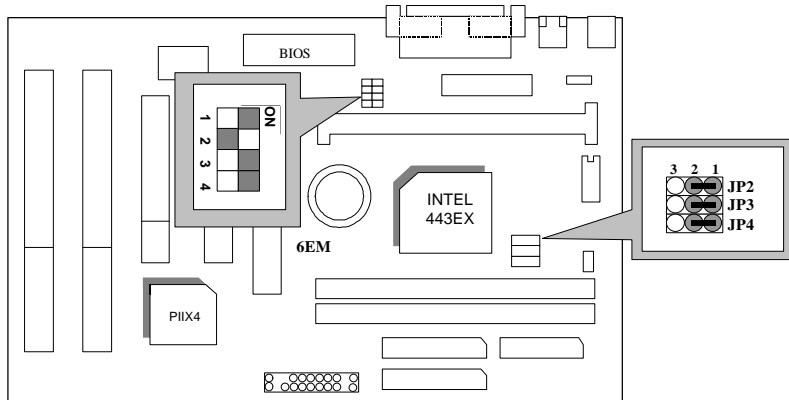
⚠️ **JP2, JP3, JP4** (Select the system speed 66.6, 75, 83MHz)

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

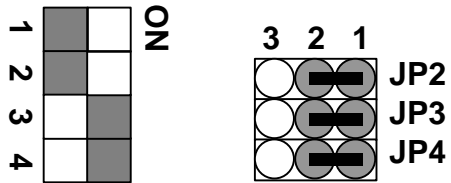
Note: We don't recommend you to setup up your system speed up to 75 or 83 MHz because they, are not the standard spec. of peripherals. If you want to run 75 or 83 MHz in your system properly, it depends on your hardware

configurations: CPU, SDRAM, Cards, etc.

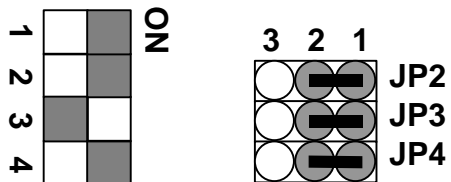
1. Pentium® II 200 MHz / 66MHz FSB



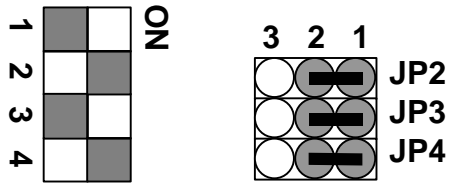
2. Pentium® II 233MHz / 66MHz FSB



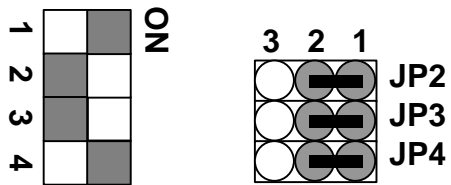
3. Pentium® II 266MHz / 66MHz FSB



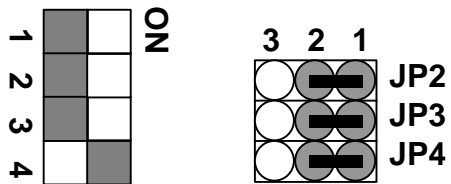
4. Pentium® II 300MHz / 66MHz FSB



5. Pentium® II 333 MHz / 66MHz FSB

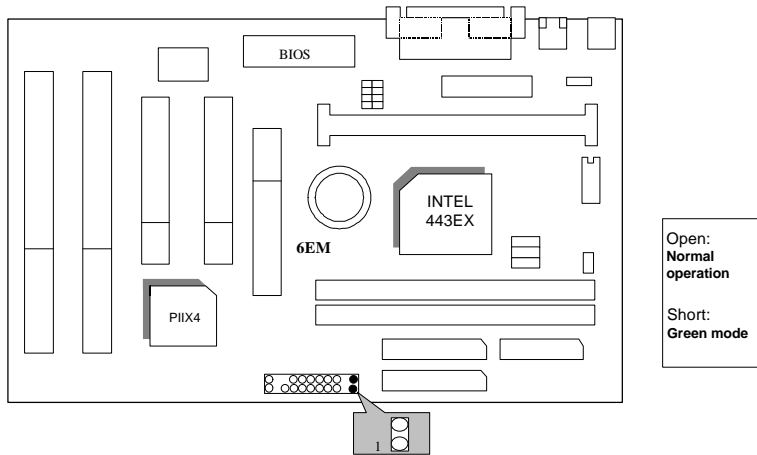


6. Pentium® II 366MHz / 66MHz FSB

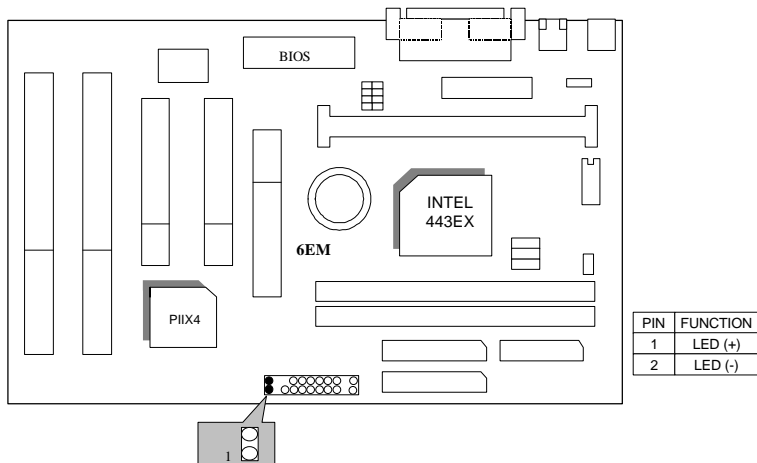


II. Jumper setting :

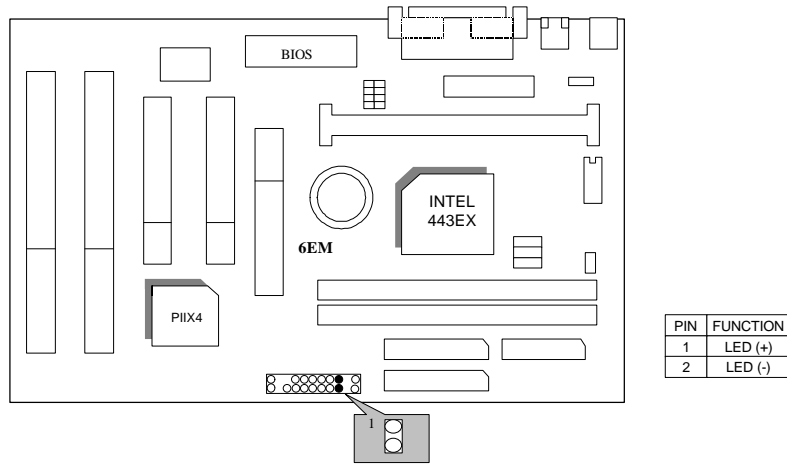
GN : Green Function Switch



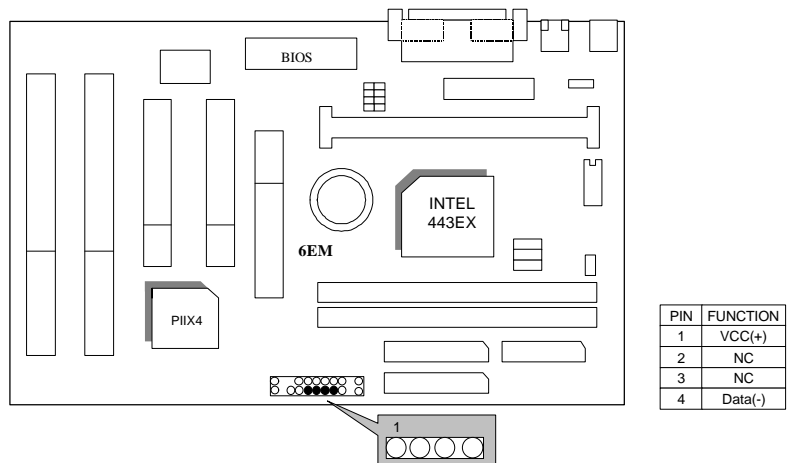
GD : Green Function LED



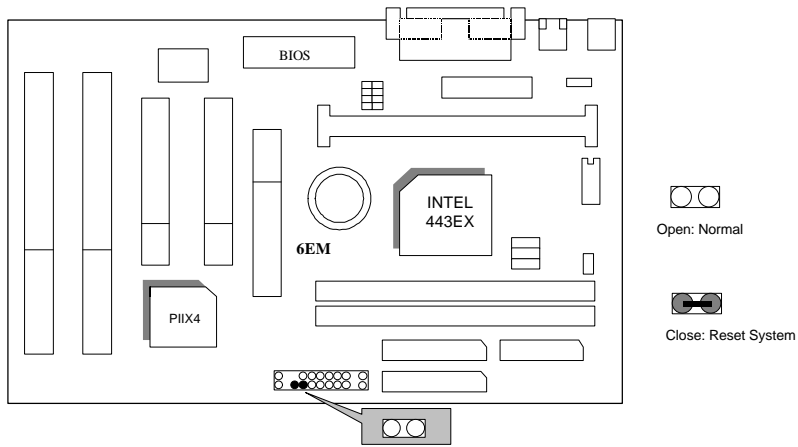
HD : IDE Hard Disk Active LED



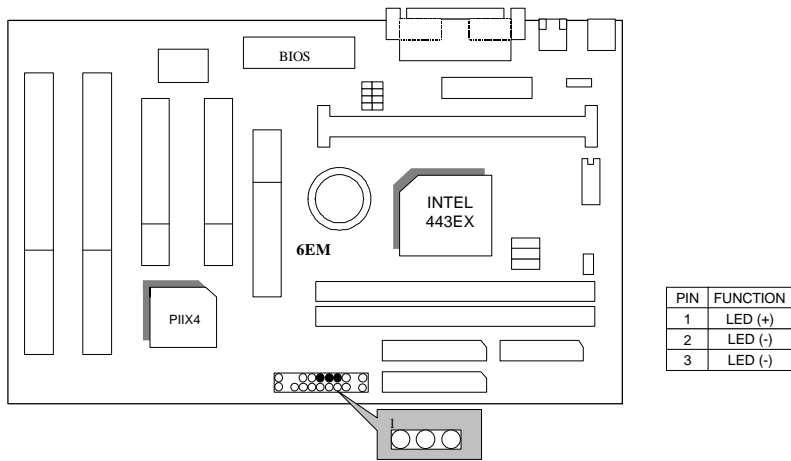
SPKR : Speaker Connector



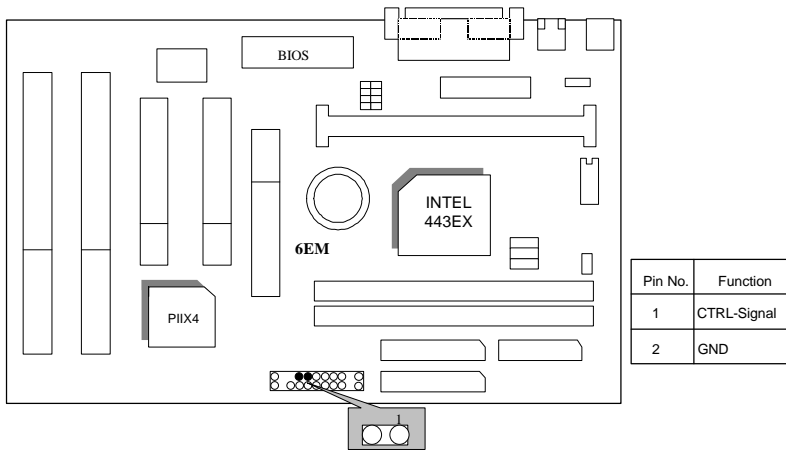
RES : Reset Switch



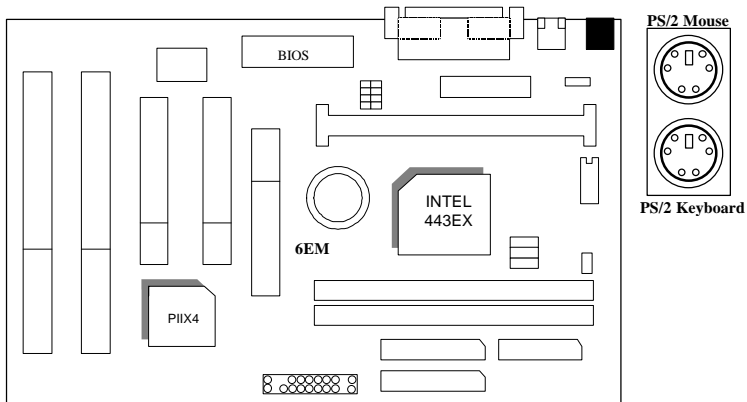
PWR : Power LED Connector



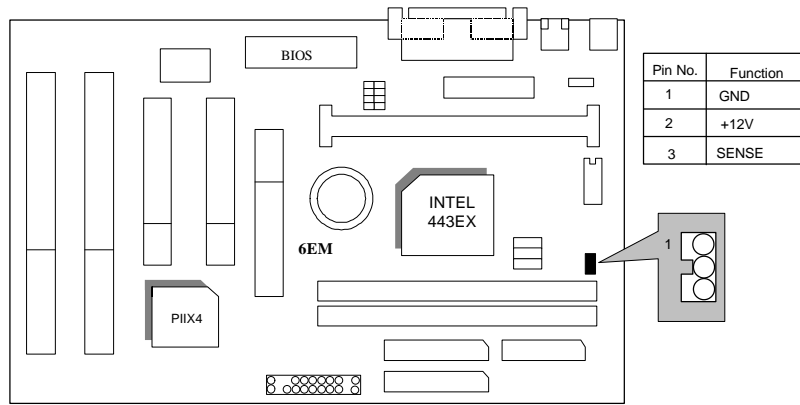
PWR SW : Soft Power Connector



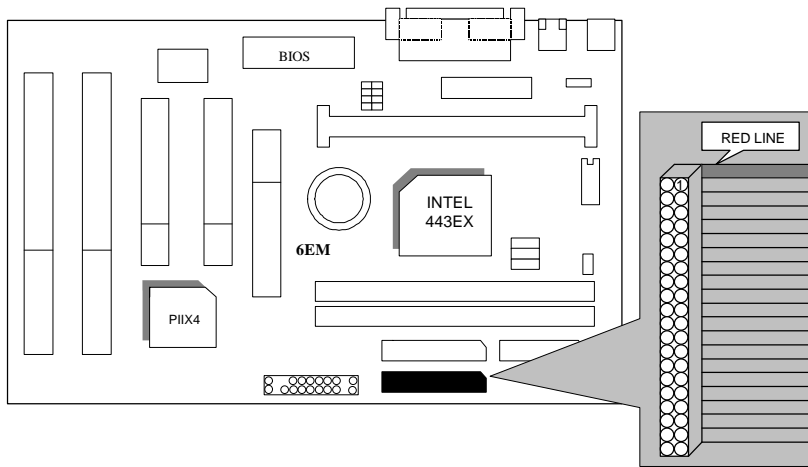
PS/2 Mouse / Keyboard Connector



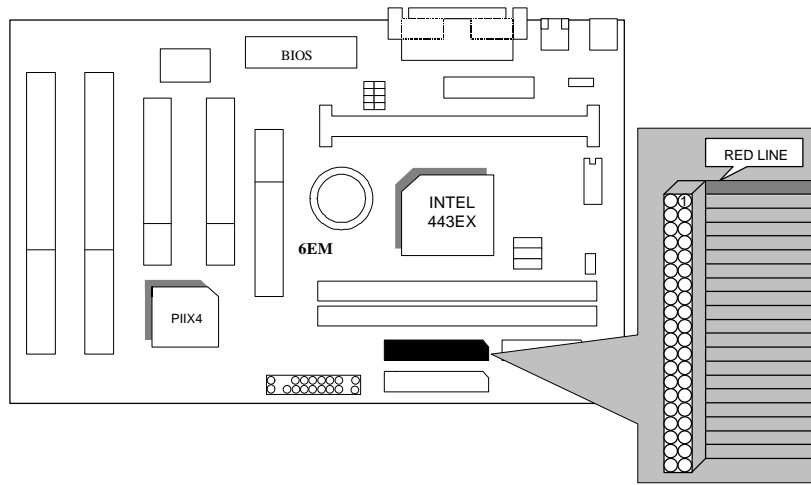
FAN PWR : CPU Cooling Fan Power Connector



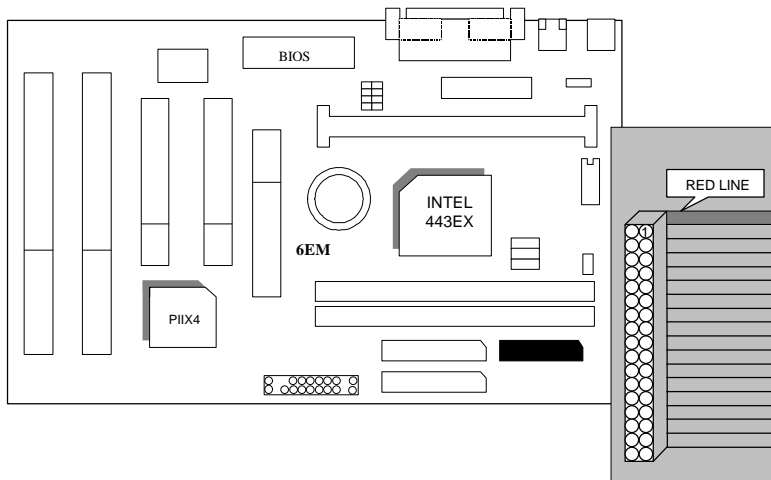
IDE1: For Primary IDE port



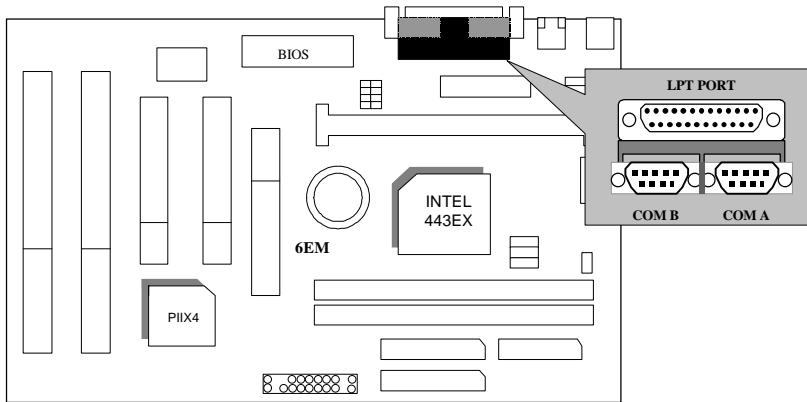
IDE2: For Secondary IDE port



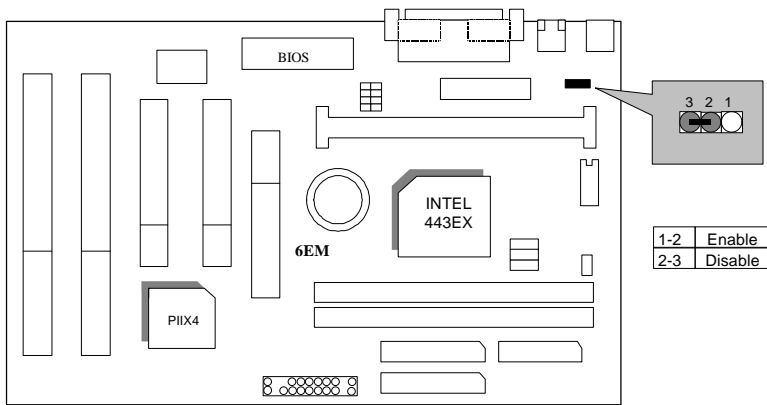
FLOPPY : FLOPPY port



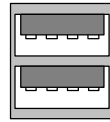
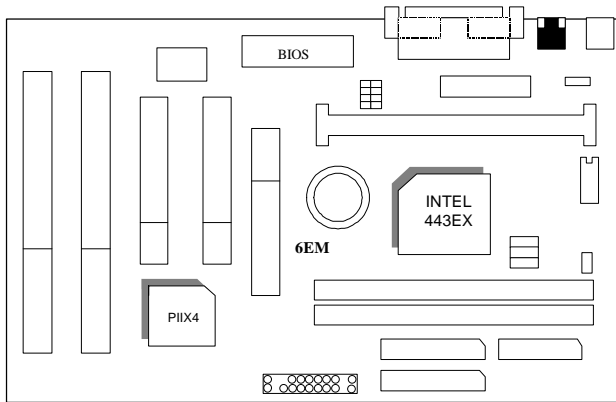
LPT PORT / COM A / COM B



JP1 : Keyboard Power On

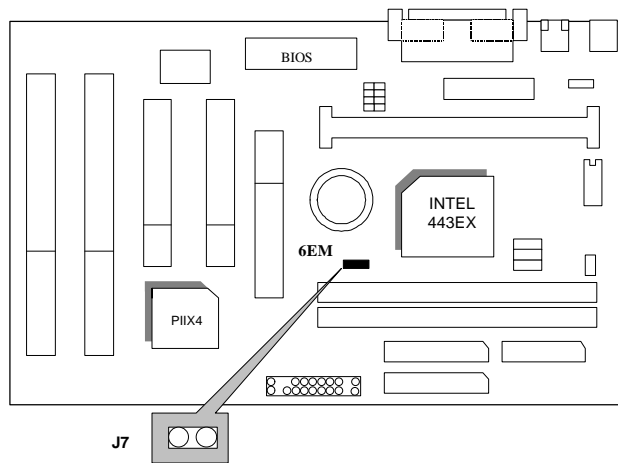


USB: USB Port



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

J7: ATX Power Control Selection

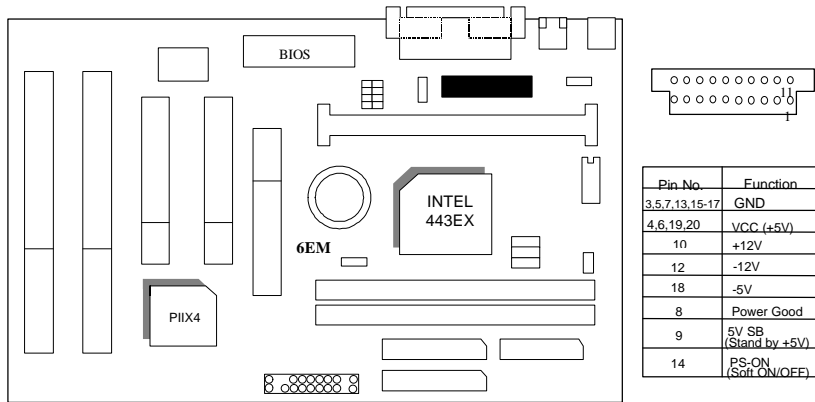


Open: Soft Off

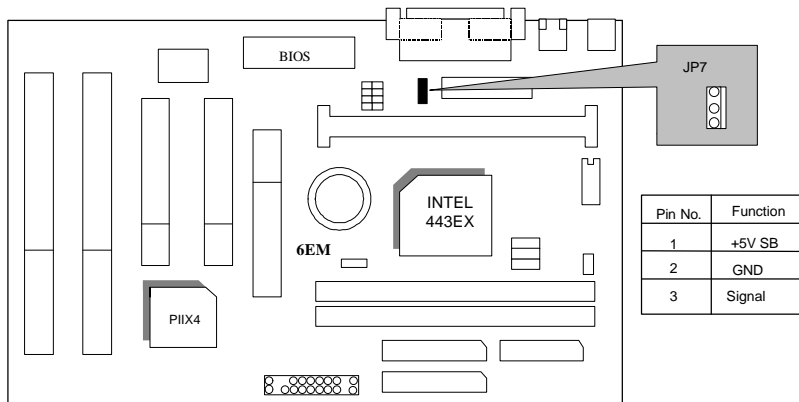


Close: Full On

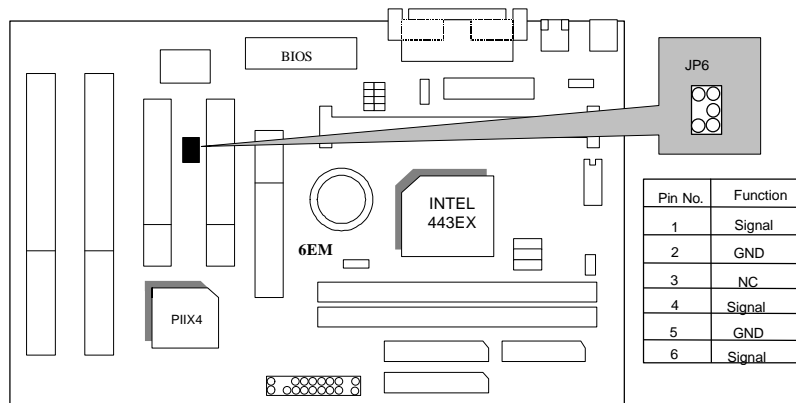
POWER1: ATX Power Connector



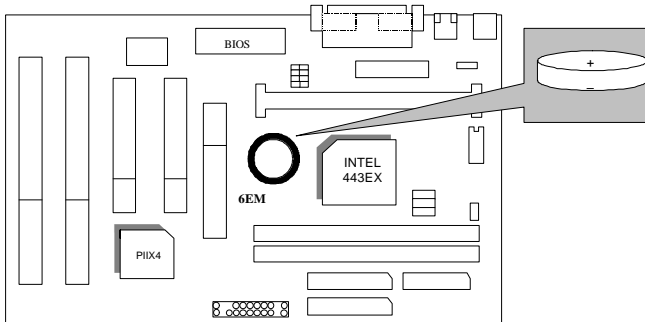
JP7: Wake On LAN



SB-LINK: For PCI Audio / Sound Card use only
(Creative PCI Sound Card Support)



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
 CHIPSET FEATURES SETUP
 AWARD SOFTWARE, INC.

Auto Configuration	: Enabled	
DRAM Speed Selection	: Fast	
Memory Buffer Strength	: Middle	
Video RAM Cacheable	: Disabled	
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	
		ESC : Quit i : Select Item
		F1 : Help PU/PD/+/- : Modify
		F5 : Old Values (Shift)F2 : Color
		F7 : Load Setup Defaults

** 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

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 processor
- DRAM (128 x 1) MB SDRAM (NEC D4564841G5-A10-9JF)
- CACHE SIZE 512 KB included in CPU
- DISPLAY GA-600 AGP Display Card (4MB SGRAM)
- STORAGE Onboard IDE (IBM DHEA-38451)
- O.S. Windows NT™ 4.0
- DRIVER Display Driver at 1024 x 768 x 256colors x 75Hz.
TRIONES Bus Master IDE Driver 3.70

Processor	Intel Pentium® II	
	266MHz(66x4)	333MHz(66x5)
Winbench98		
CPU mark32	721	839
FPU Winmark	1380	1710
Business Disk	1870	1880
Hi-End Disk	4450	4570
Business Graphics	159	181
Hi-End Graphics	175	200
Winstone98		
Business	29.7	32.5
Hi-End	33.0	36.3

