GA – 686BLX

USER'S MANUAL

1. **System power on by PS/2 Mouse: If you are using ATX power supply, you are able to power on the system by double clicking your PS/2 Mouse right or left button.**

2. **System power on by Keyboard: If your ATX power supply supports 1 ampere 5V Stand-By function, you can choose to power on your system by entering the password or just press any key with the AT keyboard.**

3. **Modem Ring-On on COM B.**

4. **Wake-up on LAN supports.(on J9)**

5. **Support 3 or 4 steps ACPI LED.**

Pentium â II Processor MAINBOARD

REV. 1.0 Second Edition

The author assumes no responsibility for any errors or omissions which may appear in this document nor does it make a commitment to update the information contained herein.

I. Quick Installation Guide :

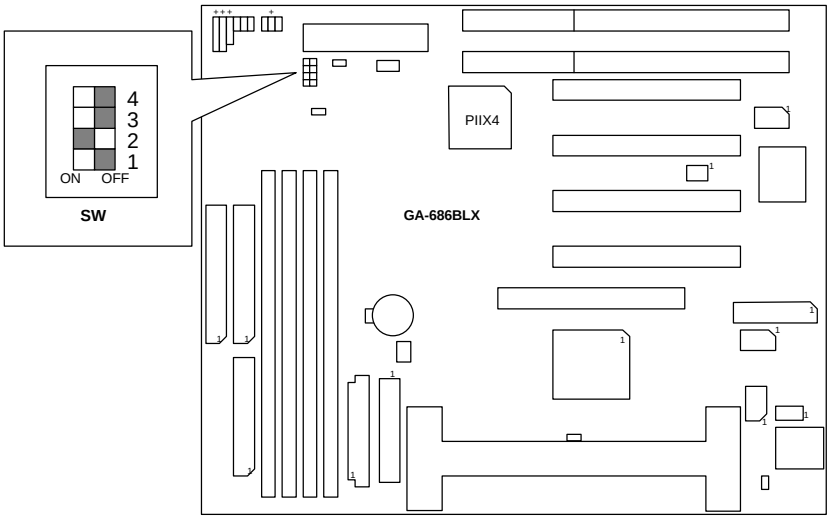
CPU SPEED SETUP

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

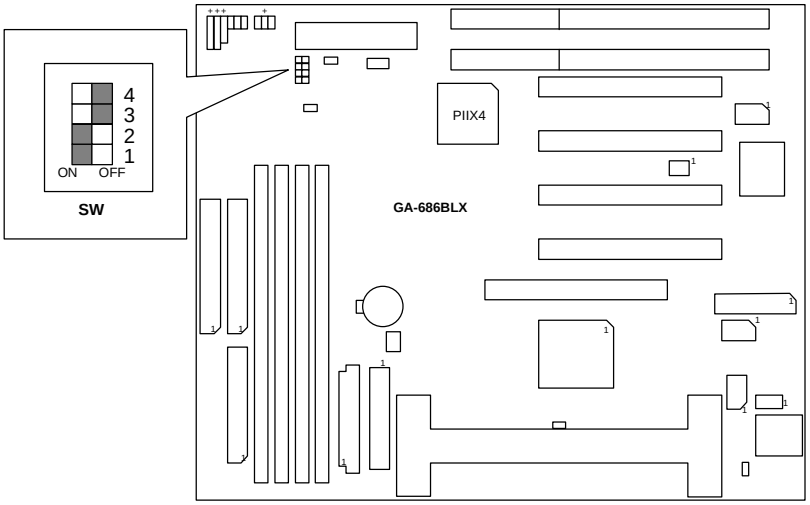
The CPU speed must match with the frequency RATIO. It will cause system hanging up if the frequency RATIO is higher than CPU's.

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

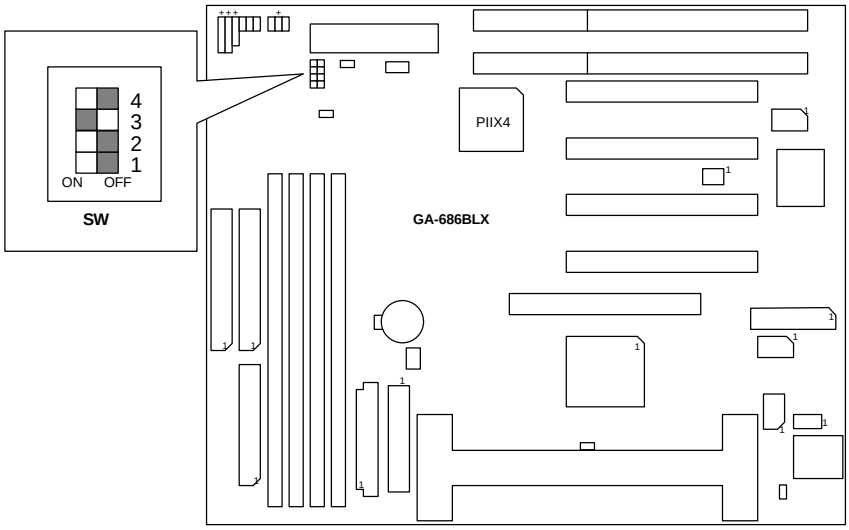
1. Pentium® II 200 MHz



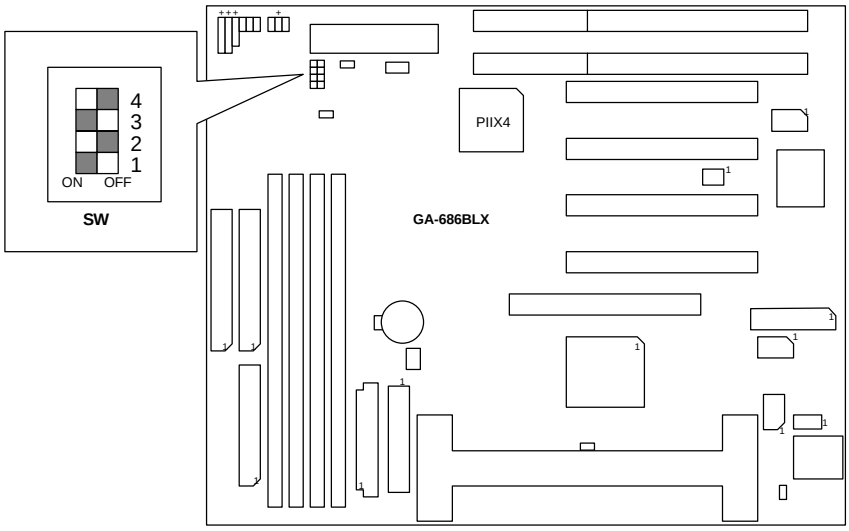
2. Pentium® II 233 MHz



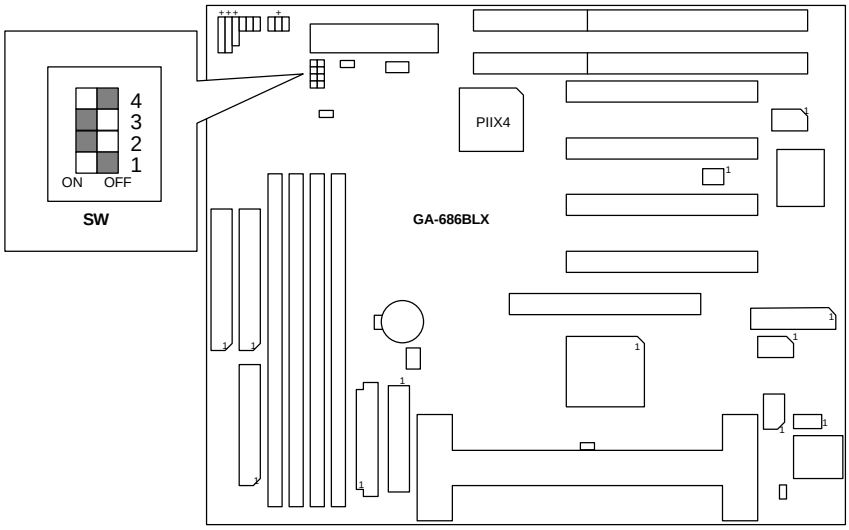
3. Pentium® II 266 MHz



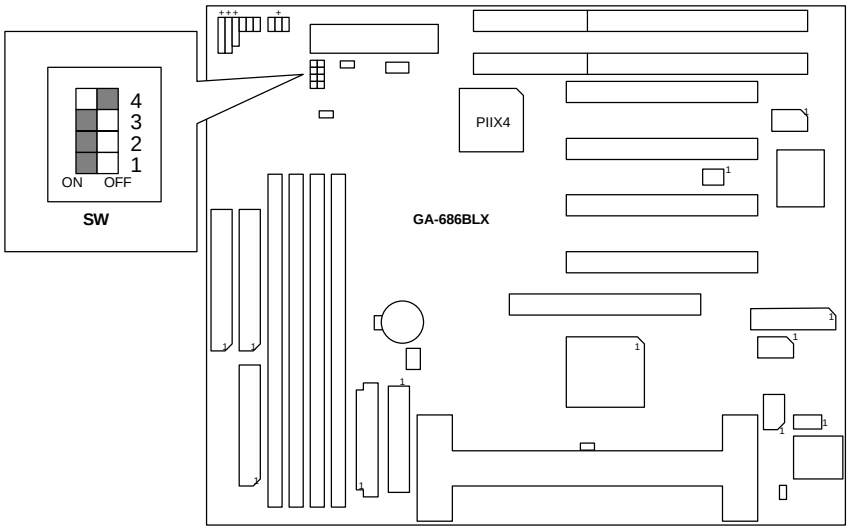
4. Pentium® II 300 MHz



5. Pentium® II 333 MHz

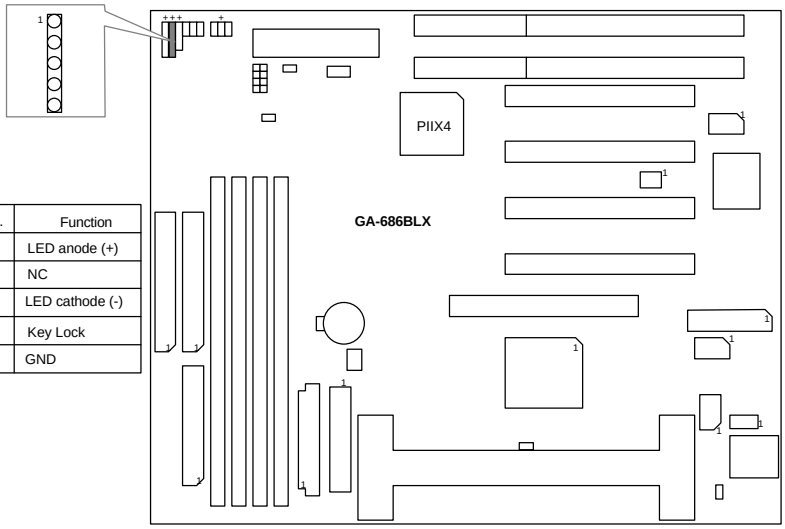


6. Pentium® II 366 MHz



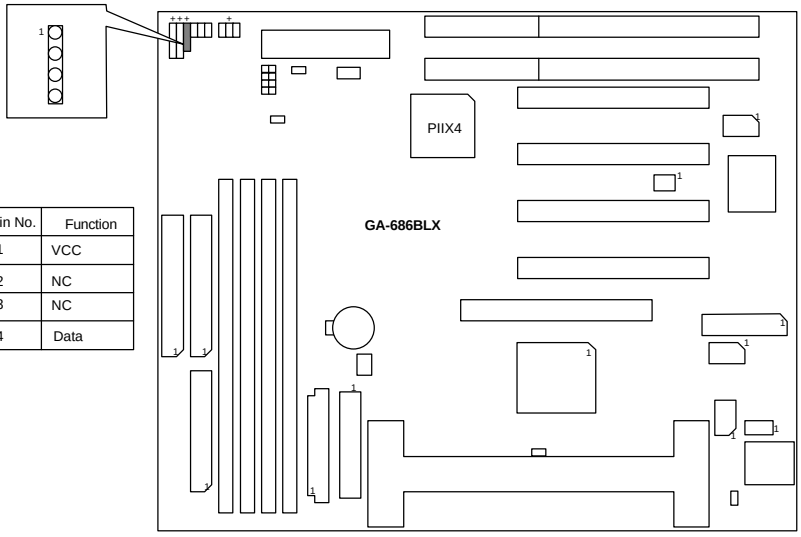
II. Jumper setting :

PWR : Power LED / Key-Lock Connector



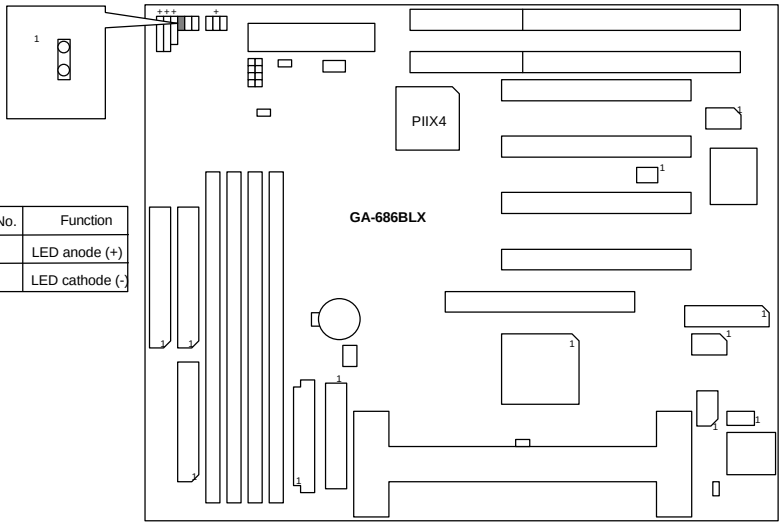
Pin No.	Function
1	LED anode (+)
2	NC
3	LED cathode (-)
4	Key Lock
5	GND

SPK : Speaker Connector



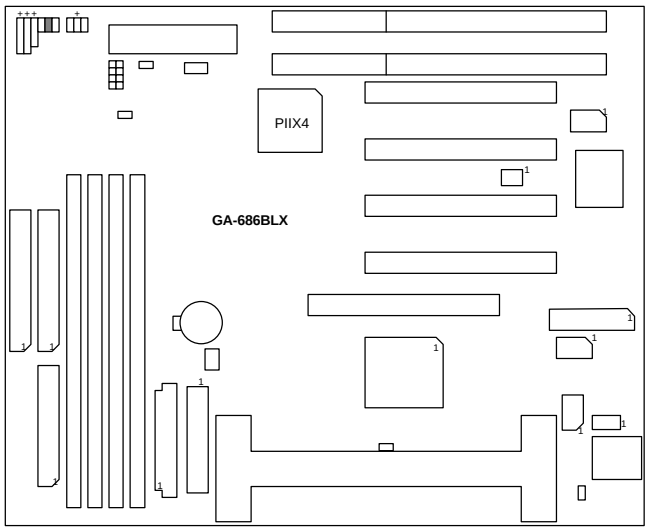
Pin No.	Function
1	VCC
2	NC
3	NC
4	Data

TD : Turbo LED Connector



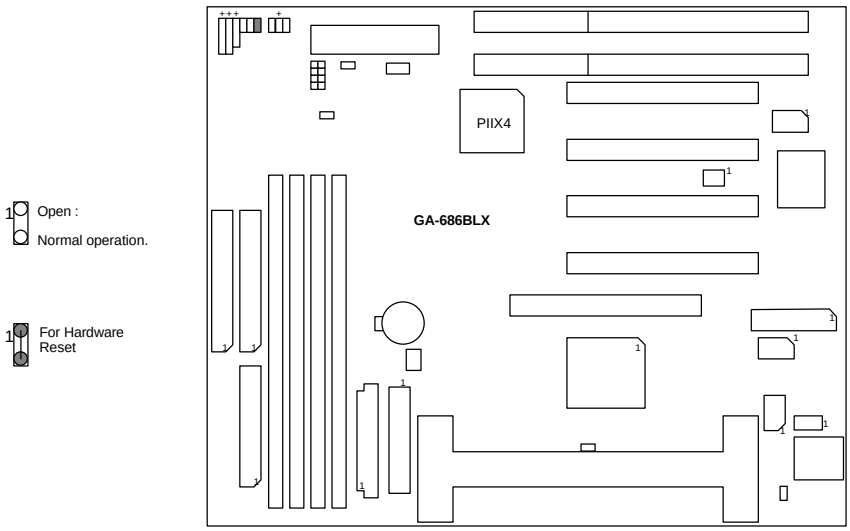
Pin No.	Function
1	LED anode (+)
2	LED cathode (-)

TB : Turbo Switch Connector

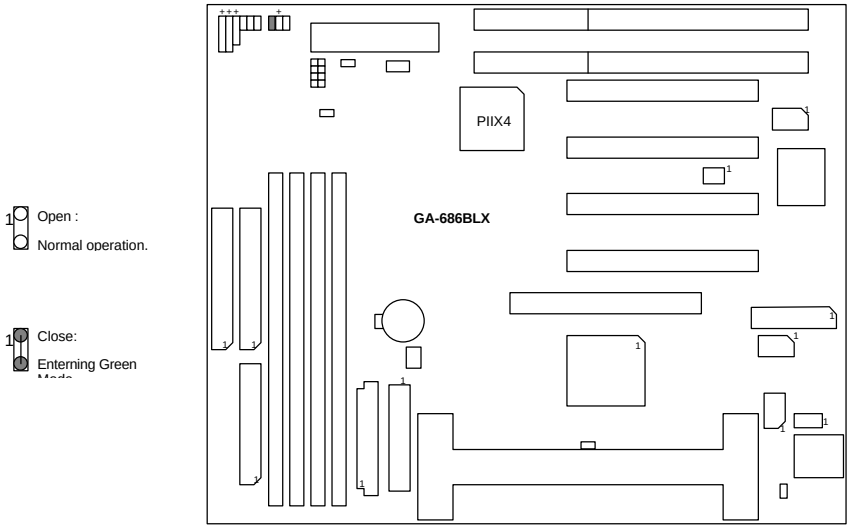


Function Reserved

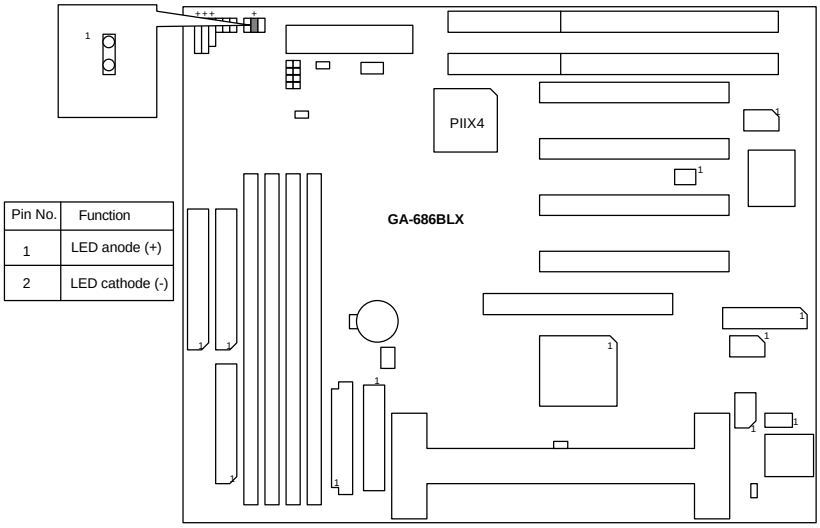
RST : Reset Switch



GN : Green Function Switch

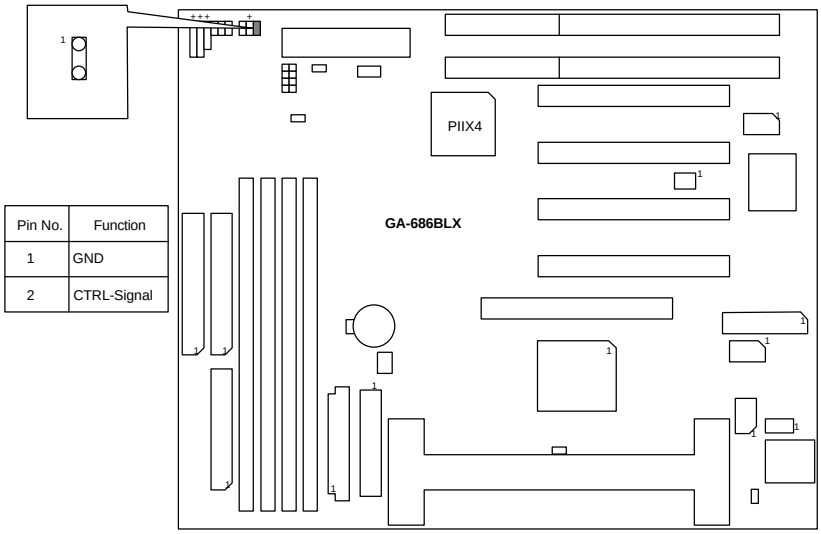


HD : IDE Hard Disk Active LED



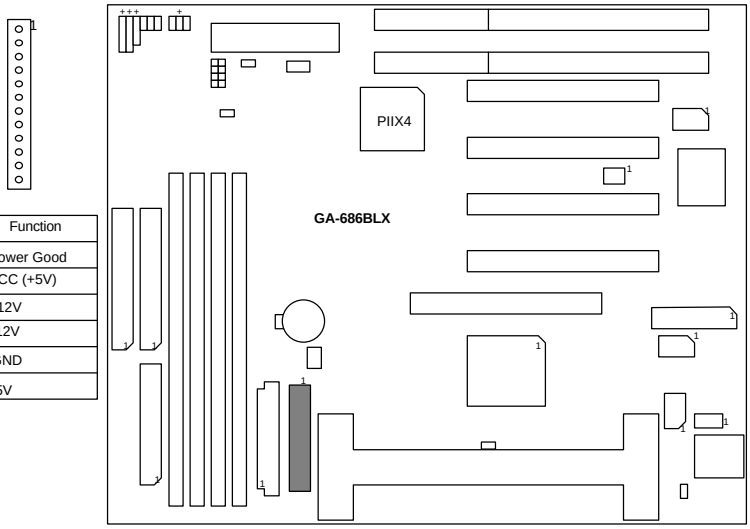
Pin No.	Function
1	LED anode (+)
2	LED cathode (-)

Soft PWR : Soft Power Connector



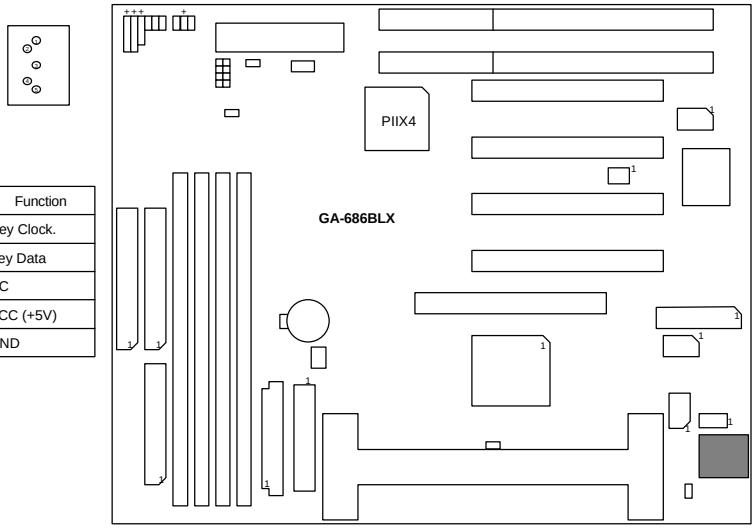
Pin No.	Function
1	GND
2	CTRL-Signal

POWER : Power Connector



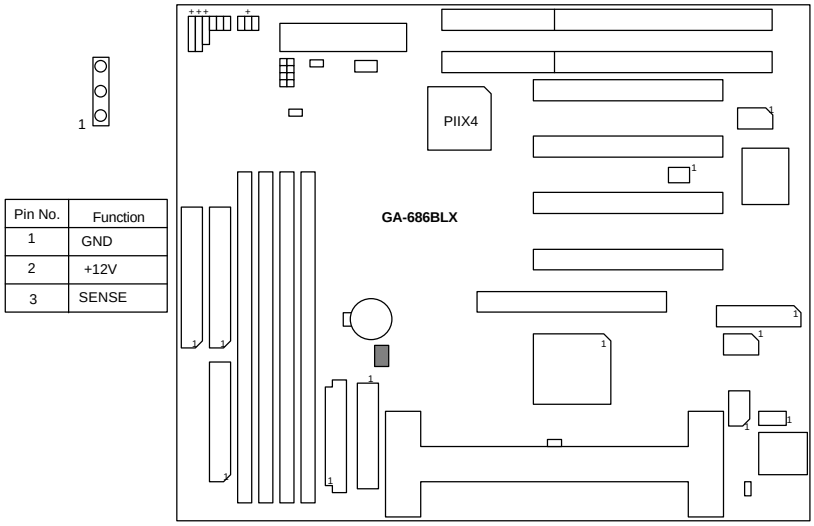
Pin No.	Function
1	Power Good
2,10,11,12	VCC (+5V)
3	+12V
4	-12V
5,6,7,8	GND
9	-5V

J3 : Keyboard Connector



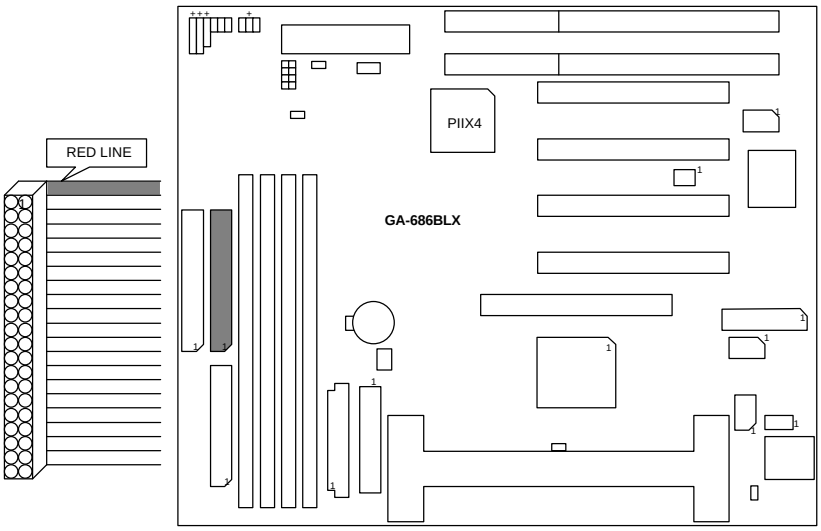
Pin No.	Function
1	Key Clock.
2	Key Data
3	NC
4	VCC (+5V)
5	GND

J2 : CPU Cooling Fan Power Connector

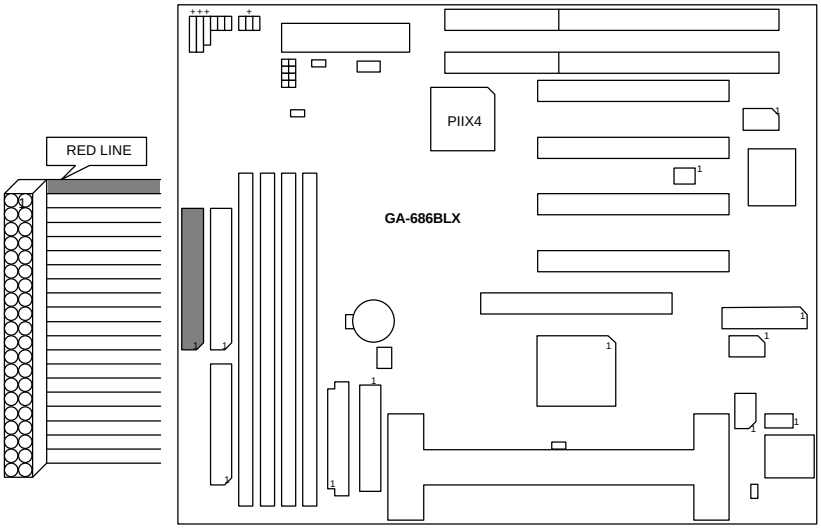


Pin No.	Function
1	GND
2	+12V
3	SENSE

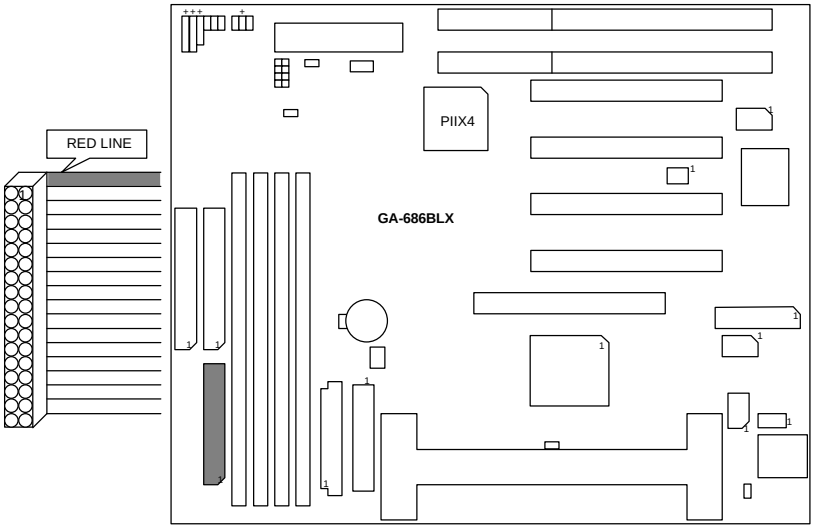
IDE1: For Primary IDE port



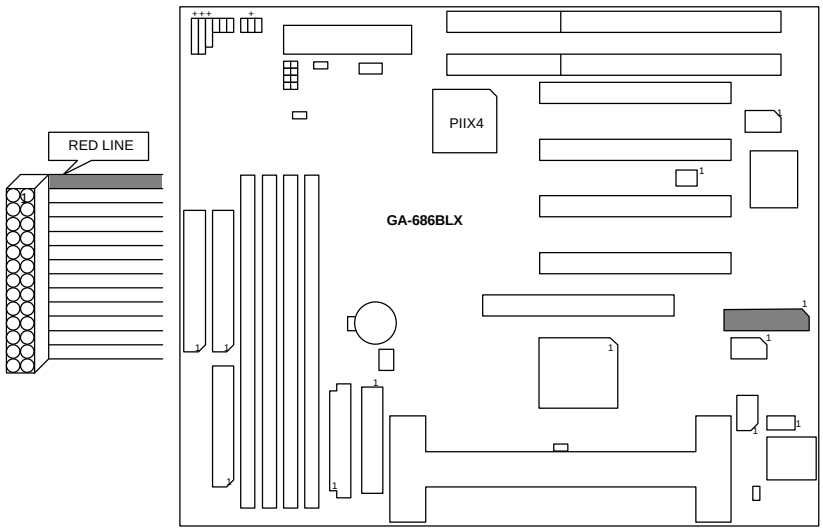
IDE2: For Secondary IDE port



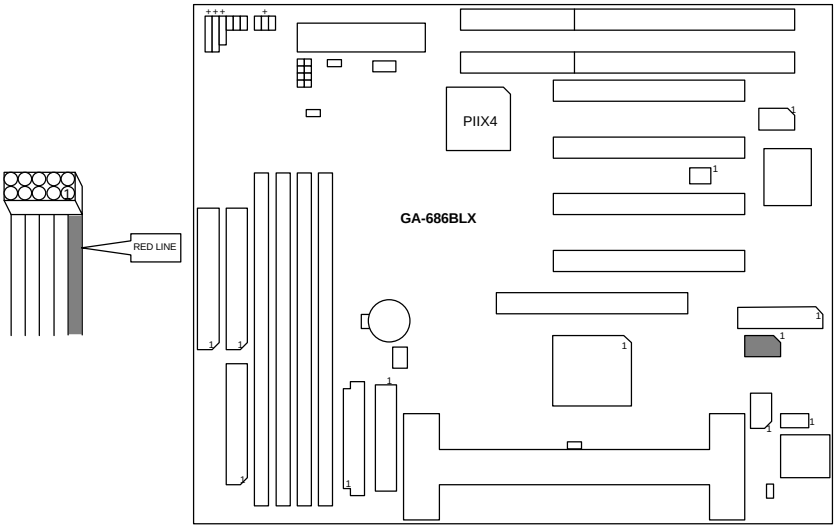
J5 : FLOPPY PORT



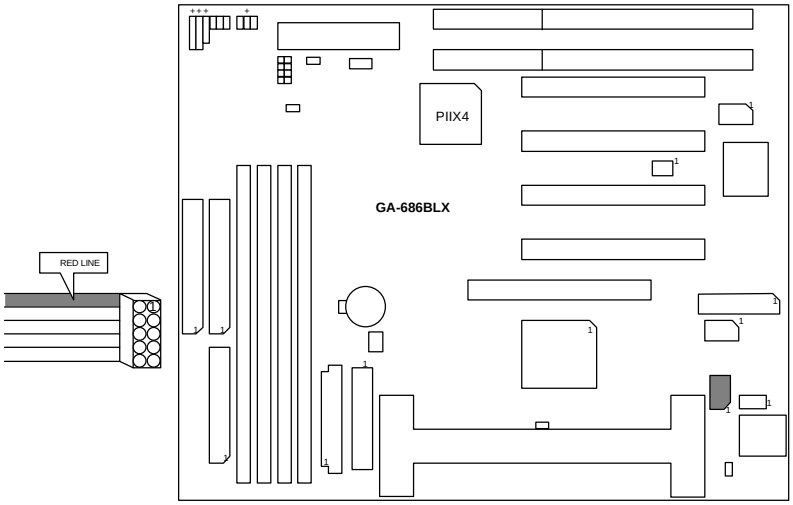
J8 : LPT PORT



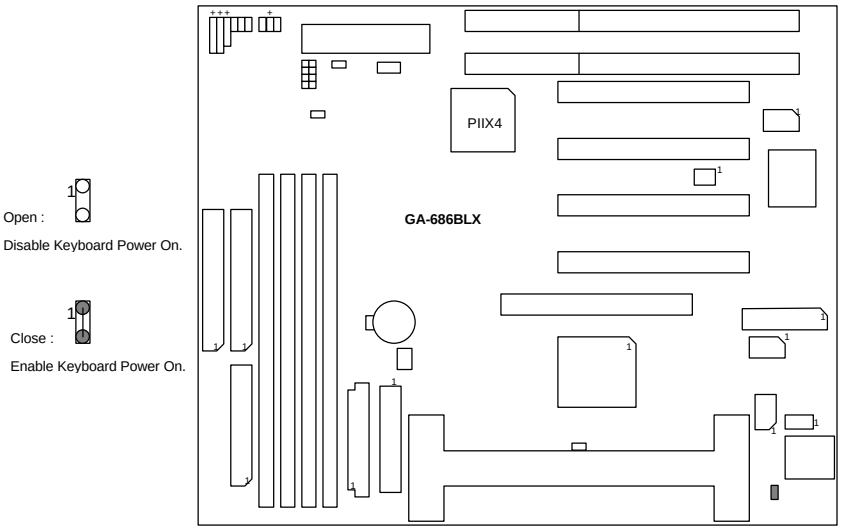
J6 : COM B



J7: COM A

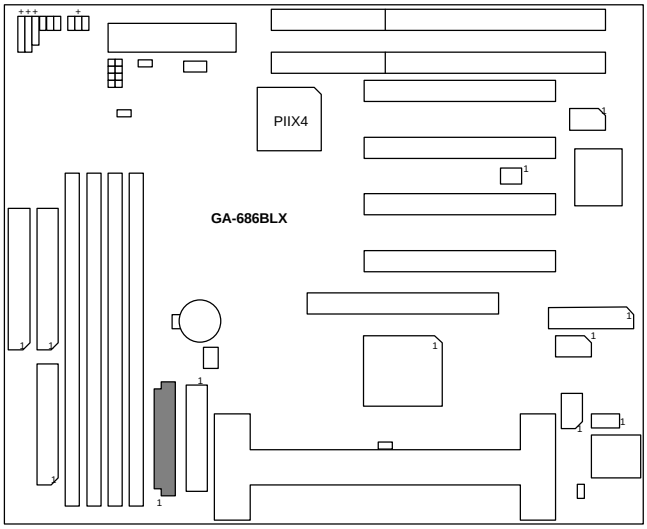


JP6 : Keyboard Power On

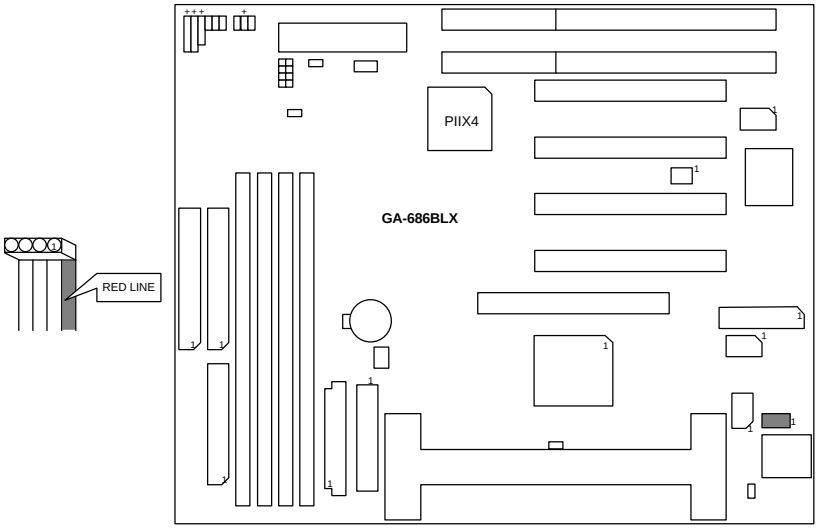


POWER1: ATX POWER Connector

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 (Stand by +5V)
14	PS-ON (Soft ON/OFF)

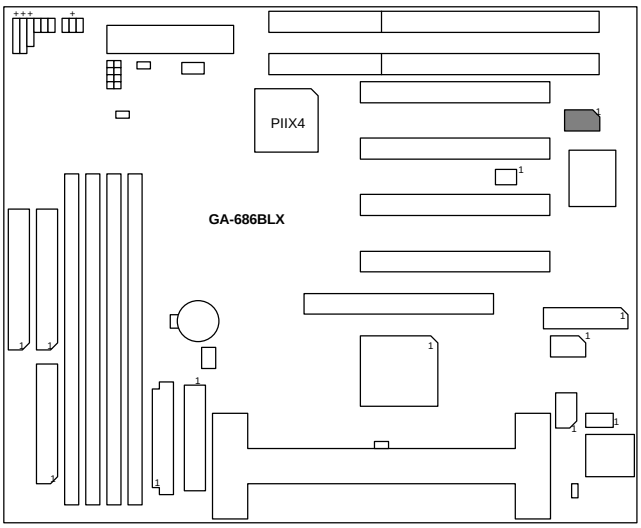


J2 : PS/2 MOUSE



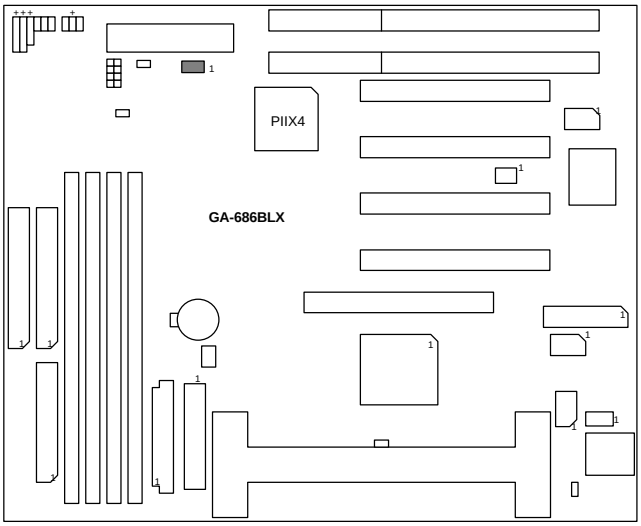
CN3: USB Port

Pin No.	Function
1	VCC
2	SBV 0-
3	SBV 0+
4	GND
5	VCC
6	SBV1-
7	SBV1+
8	GND

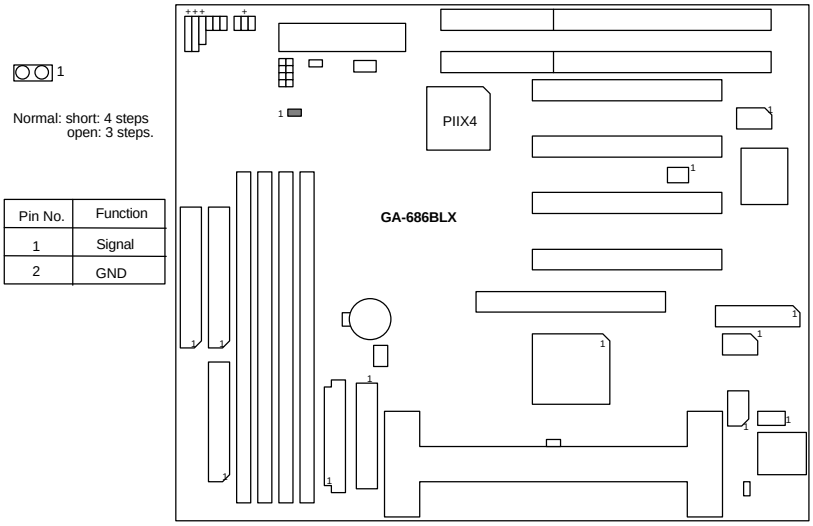


J9: Wake on Lan

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

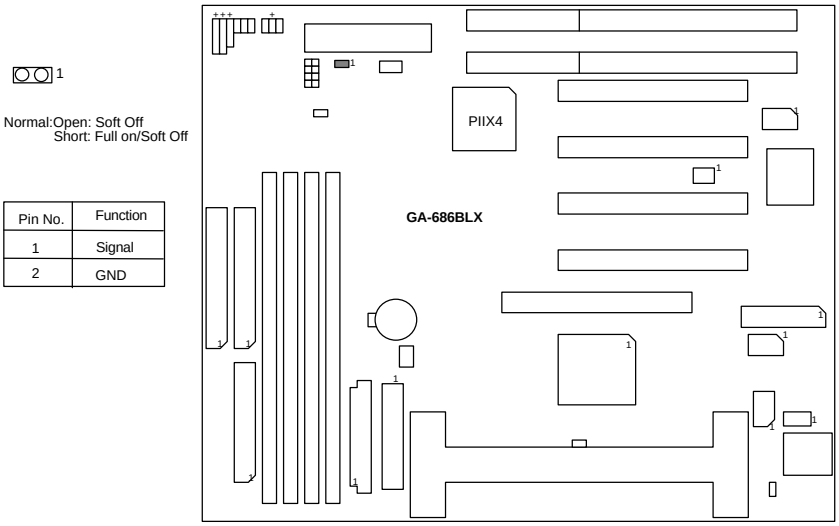


J17: ACPI LED Selection



Pin No.	Function
1	Signal
2	GND

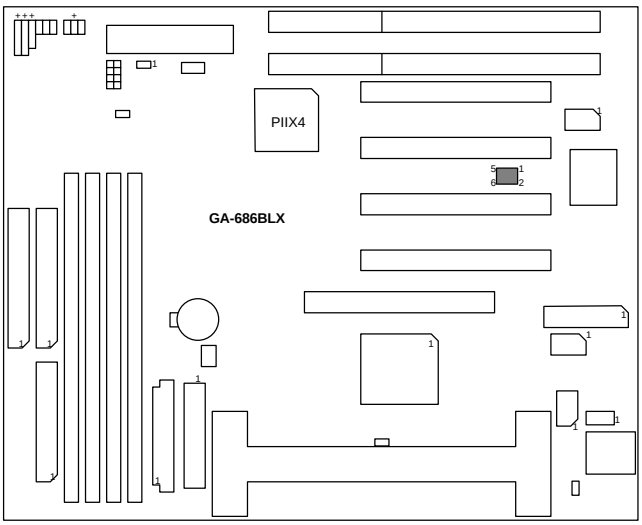
J10: System After Ac Back



Pin No.	Function
1	Signal
2	GND

J16: For PCI Audio / Sound Card use only

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



III. Top Performance Test Setting:

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	Power-Supply Type	: Auto
DRAM Speed Selection	: Fast	CPU Temperature Select	: 70 ¢J/158 ¢K
Memory Buffer Strength	: Middle	Slow Down CPU Duty Cycle	: Normal
DRAM Data Integrity Mode	: Non-ECC	Alarm When Overheat	: Disabled
Video RAM Cacheable	: Disabled	Fan Failure Control	: Disabled
16 Bit I/O Recovery Time	: 1	CPU Fan Status	: XXXX
Memory Hole At 15M-16M	: Disabled	CPU Temperature	: OK
Delayed Transaction	: Disabled	Power Supply +12V	: OK
SDRAM RAS-to-CAS Delay	: Fast	Power Supply -12V	: OK
SDRAM RAS Precharge Time	: Fast	Power Supply +5V	: OK
SDRAM CAS latency Time	: 2	Power Supply -5V	: OK
		Battery Status	: OK
		CPU VCore Voltage	: 2.8V
		ESC : Quit	¡ Ô ¡ Õ ¡ ÷Select Item
		F1 : Help	PU/PD/+/- : Modify
		F5 : Old Values	(Shift)F2 : Color
		F7 : Load Setup Defaults	