

VP1(VP1V2)

Slot 1 Motherboard

USER'S GUIDE

Model : VP1(VP1V2)
Manual Version : English, version 2.0
Release Date : Sep 7, 1999

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FCC & DOC Compliance

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- ✧ This device may not cause harmful interference .
- ✧ This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ✧ Re-orient or relocate the receiving antenna.
- ✧ Increase the separation between the equipment and the receiver.
- ✧ Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- ✧ Consult the dealer or an experienced radio/TV technician for help.

Warning! The use of shielded cables for the connection of the monitor to the graphics card is required to assure compliance with FCC regulations Changes or modifications to this authority to operate this equipment.

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SECTION 1

PRODUCT INFORMATION

Thanks for purchasing VP1(VP1V2) Slot-1 mainboard. This users manual contains all the information and features that show you how to use the VP1(VP1V2) motherboard. Please take a moment to familiarize yourself with the design and organization of this manual.

1-1 Manual Features

This manual is divided into the following four sections:

Section 1: Product Information

A brief overview of what comes in the mainboard package, the mainboard layout and the specification it appears.

Section 2: Hardware Installation

Tell you the usage of the mainboard jumpers and the connectors.

Section 3: CMOS Setup Utility

A summary of the mainboard CMOS (BIOS) Setting.

Section 4: BIOS / Software Utility

Introduction of some useful Software utility.

1-2 Package Check List

This VP1 mainboard package contains the following items. Please inspect the package contents and confirm that every thing is there. If anything is missing or damaged, call your vendor for instructions before operating.

The Package includes:

- One VP1(VP1V2) mainboard
- One Floppy Interface Cable
- One IDE Interface Cable
- One Motherboard Resource CD
- One User Manual

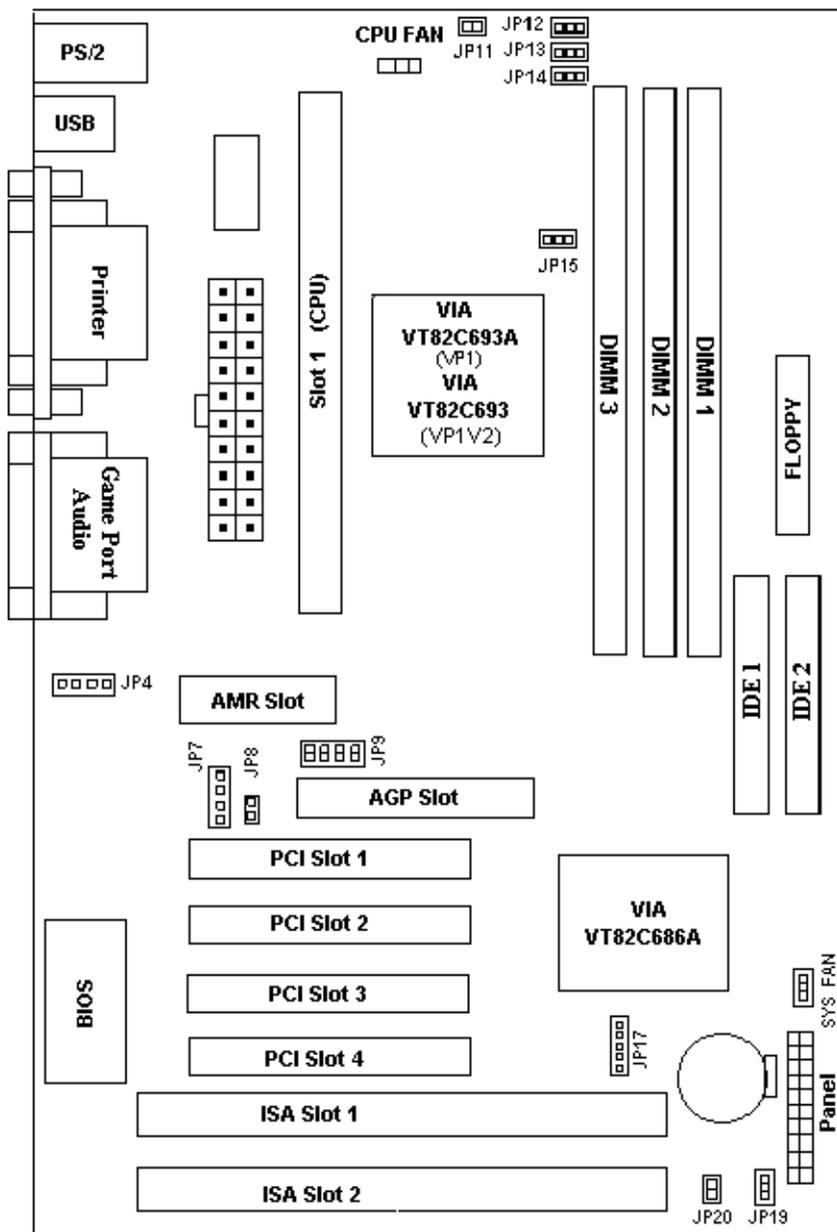
I. Product Information

1-3 Mainboard Specifications

Form Factor	<ul style="list-style-type: none"> • ATX form factor
Board Size	<ul style="list-style-type: none"> • 30.5cm x 19.8cm
CPU	<ul style="list-style-type: none"> • Supports Slot 1 Celeron, PIII, PII and further CPUs • Supports CPU Clock Ratio: 1.5/2/2.5/3/3.5/4/4.5/5/5.5/6/6.5/7/7.5/8X • Supports CPU type/clock by jumperless BIOS set up. • Supports CPU Clock Frequency: 66/75/83/100/103/112/113/124/140/150Mhz
System Memory	<ul style="list-style-type: none"> • DIMM 168-pin x 3 SDRAM maximum 768MB • Supports 64M-bit SDRAM technology
Chipset	<ul style="list-style-type: none"> • VIA Chipset including: <ul style="list-style-type: none"> - VIA VT82C693A north bridge(VP1) VIA VT82C693 north bridge(VP1V2) - VIA VT82C686A south bridge
Expansion Slots	<ul style="list-style-type: none"> 1 x AGP Slot 2 x ISA Slots 4 x PCI Slots (all of them can be PCI master) 1 x AMR Slot
Serial Port	<ul style="list-style-type: none"> • Two serial ports UART 16C550 compatible
Parallel Port	<ul style="list-style-type: none"> • One parallel port supports: <ul style="list-style-type: none"> - SPP-standard parallel port - EPP-enhanced parallel port - ECP-extended capabilities port
Floppy Interface	<ul style="list-style-type: none"> • Support drivers inches / format with <ul style="list-style-type: none"> - 3.5 inches-720KB/1.44MB/2.88MB - 5.25 inches-360KB/1.2MB
IDE Interface	<ul style="list-style-type: none"> • The VT82C686A includes dual channel master mode PCI support 4EIDE devices. • Support PIO Mode 4, ULTRA DMA /33 & ULTRA DMA/66
USB Port	<ul style="list-style-type: none"> • Two USB ports supported • Support USB Legacy Keyboard function
PS/2 Mouse	<ul style="list-style-type: none"> • PS/2 mouse supported by connector onboard
PS/2 keyboard	<ul style="list-style-type: none"> • PS/2 keyboard supported by connector onboard
Sound Function	<ul style="list-style-type: none"> • ON-Bridge Audio Codec AC'97+MC'97
Fuse	<ul style="list-style-type: none"> • Supports Recoverable fuse for USB, KB & MOUSE
RTC and Battery	<ul style="list-style-type: none"> • Built in South Bridge • Lithium (CR-2032) battery
Power Connector	<ul style="list-style-type: none"> • ATX
Wake up Function	<ul style="list-style-type: none"> • Modem ring wake up • Lan wake up • RTC Alarm wake up
Hardware Monitor	<ul style="list-style-type: none"> • System fan speed control • 4 Positive Voltage Inputs, 2 intrinsic voltage monitoring • Over temperature indicate output • Automatic Power on voltage detection beep
BIOS	<ul style="list-style-type: none"> • Award BIOS • Year 2000 Compliance • Supports APM, DMI and ACPI • Supports virus warning • Supports Flash / Upgrade BIOS functions
LED Indicator	<ul style="list-style-type: none"> • System Power LED • HDD activity LED • System Suspend LED

I. Product Information

1-4 Motherboard Layout



I. Product Information

Jumpers

- | | | |
|----|-----------|-----------------------------|
| 1. | JP19 | Clear CMOS(RTC) |
| 2. | JP9 | CPU clock Ratio |
| 3. | JP20 | Sleep Mode function |
| 4. | JP7,JP8 | AMR and AC97 jumper setting |
| 5. | JP17 | IrDA Connector |
| 6. | JP4 | CD Audio In |
| 7. | JP11-JP15 | CPU Clock Frequency |

Expansion Sockets

- | | | |
|----|--------|-----------------------------|
| 1. | DIMM 1 | Support 168-pin DIMM Memory |
| 2. | DIMM 2 | Support 168-pin DIMM Memory |
| 3. | DIMM 2 | Support 168-pin DIMM Memory |

Expansion Slots

- | | | |
|----|--------------------|--------------------------------------|
| 1. | CPU | Supporting Slot 1 CPU |
| 2. | PCI slot1 to slot4 | 32-bit PCI Bus Expansion slot |
| 3. | ISA slot1 to slot2 | 16-bit ISA Bus Expansion slot |
| 4. | AMR | AMR Expansion Slot for AC 97 Devices |
| 5. | AGP | AGP Expansion Slot |

Connectors

- | | | |
|-----|-----------------|---|
| 1. | IDE 1 | Primary IDE Connector |
| 2. | IDE 2 | Secondary IDE Connector |
| 3. | Floppy | Floppy Drive Connector |
| 4. | IrDA | Infrared ray Port Connector |
| 5. | Panel | - PowerOn ATX Power on / off switch
- Reset Reset Switch Connector
- HDD Led HDD Led Connector
- Power Led ATX Power Led Connector
- Speaker Chassis Speaker Connector
- KBLCK Keyboard Lock Switch
Connector
- SLP Suspend Switch Connector |
| 6. | Sys Fan | System Fan Connector |
| 7. | CPU Fan | CPU Fan Connector |
| 8. | Wake on LAN | Lan Wake Up Connector |
| 9. | Wake on MODEM | MODEM Wake Up Connector |
| 10. | ATX Power | ATX Power Connector |
| 11. | COM1/COM2 | Serial Port1/Serial Port2 |
| 12. | CD-IN | Audio CD-IN Connector |
| 13. | Audio/Game Port | Audio / Game Port Connector |
| 14. | Printer | Printer (Parallel) Port Connector |
| 15. | USB | Universal Serial Bus Port1 & Port2 |
| 16. | PS/2 connector | PS/2 Mouse & Keyboard |

SECTION 2

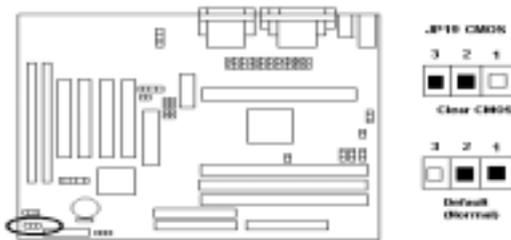
HARDWARE INSTALLATION

This section gives you a step-by-step procedure on how to install you system. Follow each section accordingly.

2-1 Jumper Settings

Please refer the following figures for the locations of the jumpers on the mainboard.

2-1.1 CMOS Clear Setting



To Clear CMOS, please follow the steps below:

1. Power off the system and unplug the chassis AC power cord.
2. Short JP19 at pin 2-3 for few seconds.
3. Set JP19 back to its Normal position at pin1-2
4. Plug the AC power cord to the chassis.
5. Power on the system and load the BIOS set up default.

2-1.2 CPU Type Setting

Static Precautions

Static electricity can be a serious damage to the electronic components on this motherboard. To avoid damage caused by electrostatic discharge, observe the following precautions:

- Don't removes the motherboard from its anti-static packaging until you are ready to install it into a computer case.
- Before you handle the motherboard in any way, touch a grounded, antistatic surface, such as an unpainted portion of the system chassis, for a few seconds to discharge any built-up static electricity.
- Handle add-in cards and modules by the edges or mounting bracket.

II. HARDWARE INSTALLATION

CPU Setting

After installing the CPU, you must set the clock selection jumpers to match the frequency of the CPU. Find the jumpers labeled JP9 and set the jumpers according to the figure below and table for CPU frequency.

3-Pin Jumper

Pin 1-2



Pin 2-3

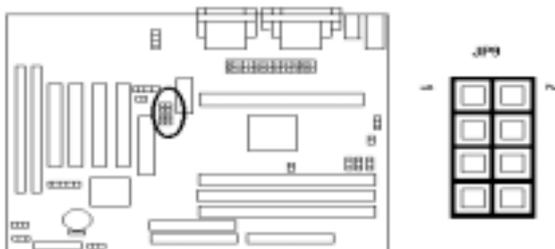


2-Pin Jumper

OPEN

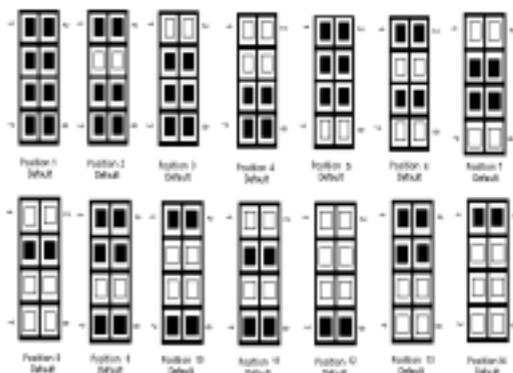


SHORT



☛ CPU Clock Ratio:

JP9 is used to select the CPU clock ratio.



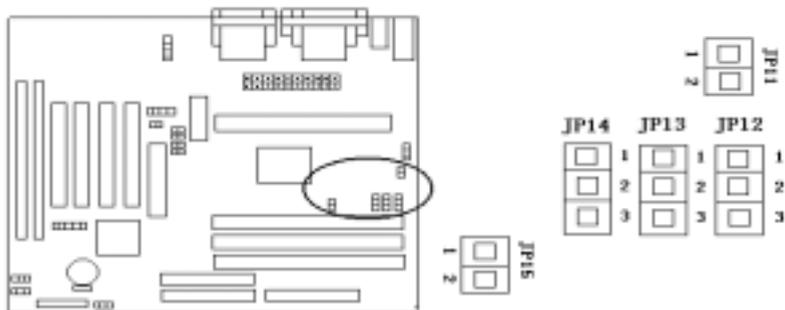
Core Freq/ Bus Freq.	JP 9 Position
2	Position 1
3	Position 2
4	Position 3
5	Position 4
6	Position 5
7	Position 6
8	Position 7
1.5	Position 8
2.5	Position 9
3.5	Position 10
4.5	Position 11
5.5	Position 12
6.5	Position 13
7.5	Position 14

II. HARDWARE INSTALLATION

Clock Generator:

CPU Clock Frequency:

JP11,JP12,JP13,JP14&JP15 are used to select the CPU Clock Frequency.

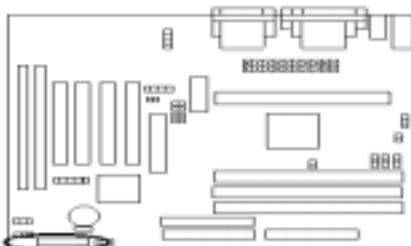


CPU (MHz)	PCICLK (MHz)	JP11	JP12	JP13	JP14	JP15
66	33	Short	2-3	1-2	1-2	Short
75	37	Short	2-3	1-2	2-3	Short
83	41	Short	2-3	2-3	1-2	Short
100	33	Open	2-3	1-2	1-2	Short
103	34	Open	2-3	2-3	2-3	Short
112	37	Open	2-3	1-2	2-3	Short
133	44	Open	2-3	2-3	1-2	Short
124	31	Open	1-2	2-3	1-2	Open
133	33	Open	1-2	1-2	1-2	Open
140	35	Open	1-2	2-3	2-3	Open
150	37	Open	1-2	1-2	2-3	Open

II. HARDWARE INSTALLATION

2-2 Connectors

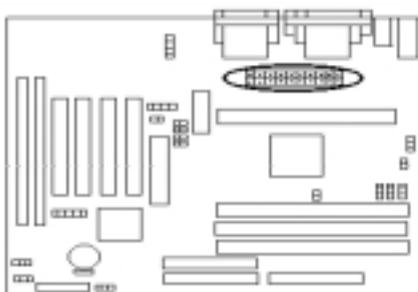
2-2.1 Panel Connector



- **PWR ON** ATX Power Swith Connector(3 pins)
- **RESET** Reset Swith Connector (2 pins)
- **HDDLED** HDD LED Connector (2 pins)
- **PWR LED** ATX Power LED Connector (3 pins)
- **SPEAKER** Chassis Speaker Connector (4 pins)
- **KEY LOCK** Key Lock Connector (2 pins)

2-2.2 Power Connector

Connect the 20-pin ATX power supply cable to this power connector. Make sure the right plug-in direction and the power supply is off before connecting or disconnecting the power

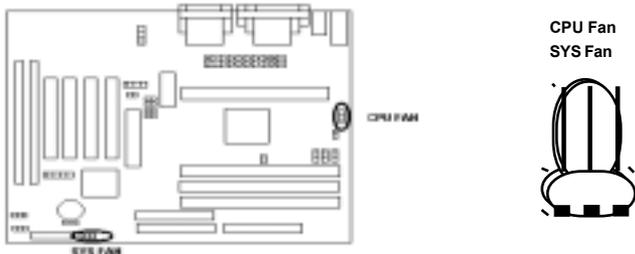


ATX Power Connector

II. HARDWARE INSTALLATION

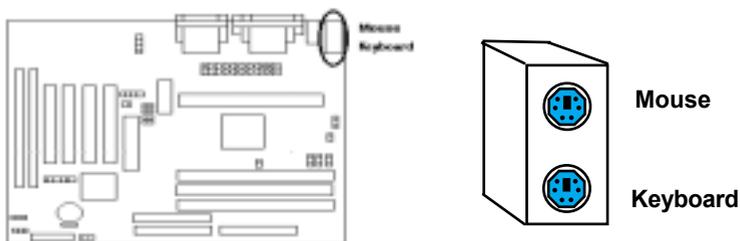
2-2.3 Fan Connectors

Connect the CPU and SYS fan cables to the fan connectors shown below. The fan connectors are marked as: **CPUFAN** and **SYSFAN** on the mainboard.



2-2.4 PS/2 Mouse & Keyboard Connector

Connect the PS/2 mouse and keyboard to the onboard 6-pin Mini-Din connector marked as **MOUSE** and **KB**.



2-2.5 USB Device Connector

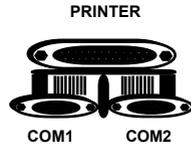
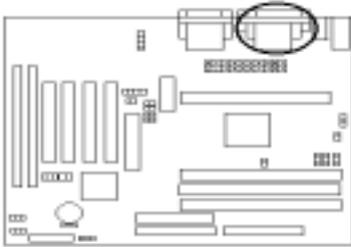
Connect your USB device(s) to the onboard USB connector marked as **USB**.



II. HARDWARE INSTALLATION

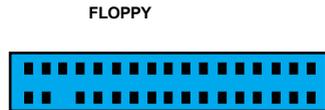
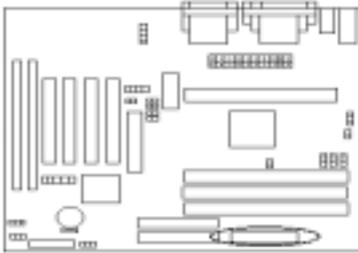
2-2.6 Serial Device (COM1/COM2) and Printer Connectors

Connect your serial device(s) to the onboard 9-pin serial connectors marked as **COM 1** and **COM 2**. Connect your local printer to the onboard 25-pin printer connector marked as **PRINTER**.



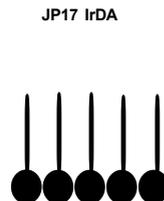
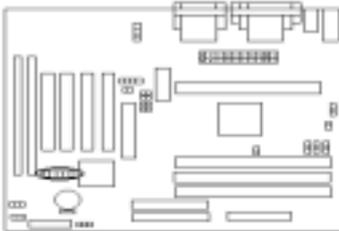
2-2.7 Floppy Drive Connector

Connect the floppy drive cable to the onboard 34-pin floppy drive connector marked as **FDD**.



2-2.8 IrDA Connector

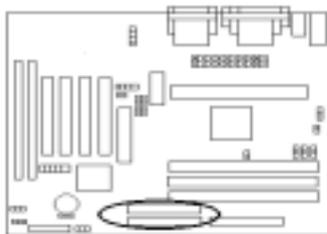
Connect your IR device to the onboard IrDA connector marked as **IR**.



II. HARDWARE INSTALLATION

2-2.9 IDE Hard Drives and CD-ROMs Connector

Connect your IDE devices to the onboard 40-pin IDE connectors marked as **IDE1** and **IDE2**.



IDE 1



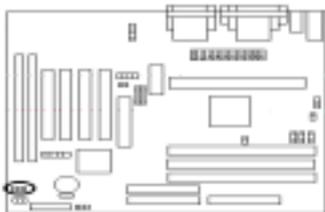
IDE 2



It is suggested that you connect the IDE devices to your IDE cables as the figure shown above. Each IDE channel, either Primary or Secondary, supports two IDE devices which must be set differently to master mode and slave mode. (Refer to your hard disk and CD-ROM user's manual for detailed settings of IDE master and slave mode.)

2-2.10 Wake On LAN Connector

This motherboard supports wake up on LAN function. To use this function, you need a **Wake On LAN** supported network card and software. To use the Wake On LAN function, you must enable the "Power On By Ring/Lan" field in the power Management Setup of the Award BIOS.



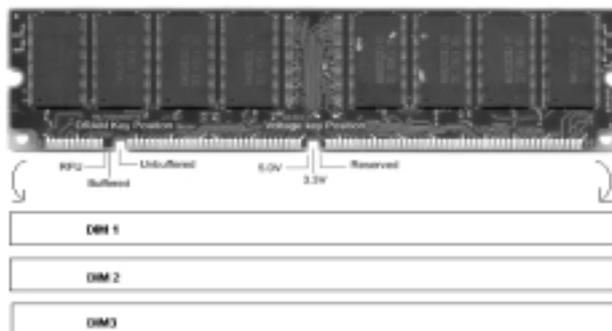
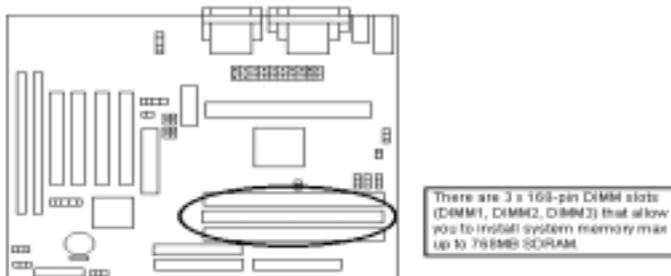
CON17 Wake On LAN



II. HARDWARE INSTALLATION

2-3 System Memory Installation

There are 3 pieces 168-pin DIMM (Dual Inline Memory Module) sockets on the motherboard which support SDRAM and EDO DRAM meory.

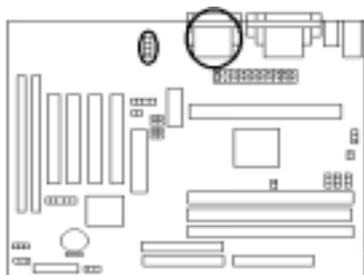


- ◆ To ensure reliability, it is recommended to use PC 100 or PC 133 SDRAM for your high clock SDRAM performance requirement.
- ◆ If you are using low clock SDRAMs, you should set the SDRAM clock option of the BIOS's Chipset Feature Setup to HCLK-33 to ensure stability.
- ◆ DIMM Sizes supported: **8MB, 16MB, 32MB, 64MB, 128MB and 256MB.**
- ◆ Total Memory Size = DIMM1 + DIMM2 + DIMM3, maximum up to 768MB.

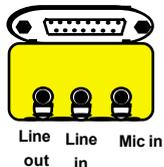
II. HARDWARE INSTALLATION

2-4 Audio / Game Port Connector

Connect the audio cable to the onboard Audio / Game Port connector marked as **Audio / Game Port**. The onboard CD connector marked as **CD** is for CD-ROM audio.



Audio / Game Port

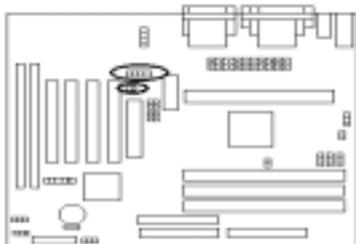


JP4 CD Audio In



2-5 AMR(Audio/Modem Riser) Slot Connector

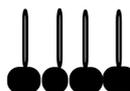
This motherboard provides an AMR slot to support both audio and modem.



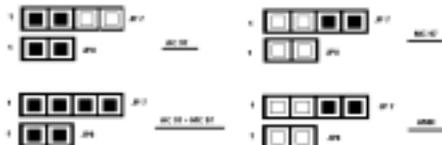
JP8



JP7



AMR jumper setting:



SECTION 3

CMOS SETUP UTILITY

The rest of this manual is intended to guide you through the process of configuring your system using Setup. While the BIOS is in control, the Setup program can be activated by pressing the key during the POST (Power On Self-Test).If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the “RESET” button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys.

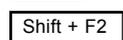
3-1 BIOS Setup Main Menu

Once you enter the BIOS setup utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup functions . the arrow keys to select among the items and press <Enter> to accept and enter the submenu.

CMOS Setup Utility	
Award Software, INC	
> Standard CMOS Feature	> CPU Speed Setting
> BIOS Feature Setup	> Integrated Peripherals
> Chipset Feature Setup	> Supervisor Password
> Power Management Setup	> User Password
> PnP/PCI Configurations	> IDE HDD Auto Detection
> Load BIOS Defaults	> Save & Exit Setup
> Load Setup Defaults	> Exit Without Saving
Esc : Quit	↑ ↓ ← → : Select Item
F10 : Save & Exit Setup	(Shift)F2 : Change Color
Time, Date, Hard Disk Type....	

The main menu includes the following main setup categories, which defines basic information about your system. Below are the keyboard function keys you can use under the menu.

Menu function keys:

-  : To Move around the screen. An item is highlighted if it is selected.
-  : Help.
-  : Save CMOS Changes & Exit.
-  : To select or enter a submenu.
-  : To quit the BIOS Setup Utility.
-  : To change color.

III. CMOS SETUP UTILITY

3-2 Standard CMOS Setup

The items in Standard CMOS Setup Menu are divided into 10 categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the  / <PgUp> / <PgDn> keys to select the value you want in each item.

ROM PCI/ISA BIOS(2A6KL00B) CMOS SETUP UTILITY AWARD SOFTWARE, INC.									
Date (mm:dd:yy): Fri, Jan 1 1999									
Time (hh:mm:ss): 14: 8: 0									
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
Primary Master	: Auto	0M	0	0	0	0	0	Auto	
Primary Slave	: Auto	0M	0	0	0	0	0	Auto	
Secondary Master	: Auto	0M	0	0	0	0	0	Auto	
Secondary Slave	: Auto	0M	0	0	0	0	0	Auto	
Drive A:	1.44M, 3.5in					Base Memory:	640K		
Drive B:	None					Extended Memory:	64512K		
						Other Memory:	384K		
Video	: EGA/VGA					Total Memory:	65536K		
Halt On:	All, But keyboard								
ESC: Quit					↑ ↓ ← →: Select Item		PU/PD/+/-: Modify		
F1 : Help					(Shift)F2: Change Color				

■ Date & Time

To set the date and time, highlight the date area. Press  <PgUp> / <PgDn> to set the current date. The date format is month: Jan. ~ Dec; date: 1 ~ 31; year: 1994 ~ 2079; hour: 00 ~ 23; and second: 00 ~ 59.

■ Hard Disks → Primary Master

■ Hard Disks → Primary Slave

■ Hard Disks → Secondary Master

■ Hard Disks → Secondary Slave

Type:

- Auto BIOS automatically detects the installed hard disk when system boot up.
- User Select the User will let you select the number of cylinders, heads, etc.
- None (Note: PRECOMP = 65535 means NONE!)

Default: Auto

Mode:

- Auto Select NORMAL for IDE HDD smaller than 528MB. Select LBA for IDE HDD over than 528MB and support LBA (logical Block Addressing) mode. Select
- Normal LARGE for IDE HDD over than 528MB and do not support LBA mode.
- LBA
- LARGE

Default: Auto

Note: We recommend that you set both IDE HDD TYPE and MODE to AUTO to let BIOS automatically detect the hard disk drives for you.

III. CMOS SETUP UTILITY

■ Floppy → Drive A

■ Floppy → Drive B

Drive A / B:

Select the floppy drive type installed in your system. The available options for Drive A and Drive B are: 360KB 5.25", 1.2MB 5.25", 720KB 3.5" 1.44MB 3.5", 2.88MB 3.5" and NONE.

- None
- 360KB 5.25"
- 1.2MB 5.25"
- 720KB 3.5"
- 1.44MB 3.5"
- 2.88MB 3.5"

Default: Drive A 1.44MB 3.5"
Drive B None

■ Video

Video:

Select the video display card type installed in your system. The available types are: EGA/VGA, CGA 40, CGA 80 and Mono.

- EGA / VGA
- CGA40
- CGA80
- Mono

Default: EGA/VGA

■ Halt On

Halt On:

This item defines the operation of the system POST (Power On Self-Test). You can use this item to select which kind of errors will cause the system to halt during POST.

- All Errors
- No Errors
- All, But keyboard
- All, But Diskette
- All, But Disk / Key

Default: All, But Keyboard

III. CMOS SETUP UTILITY

3-3 BIOS Features Setup

This section allows you to configure your system for basic operation.

ROM PCI / ISA BIOS (2A6LGTXA) BIOS FEATURES SETUP AWARD SOFTWARE, INC

Virus Warning	Enabled	Video BIOS Shadow	:	Enabled
CPU Internal Cache	Enabled	C8000-CBFFF	Shadow	: Disabled
External Cache	Enabled	CC000-CFFFF	Shadow	: Disabled
CPU L2 Cache ECC Checking	Enabled	D0000-D3FFF	Shadow	: Disabled
Quick Power On Self Test	Disabled	D4000-D7FFF	Shadow	: Disabled
Boot Sequence	A, C, SCSI	D8000-DBFFF	Shadow	: Disabled
Swap Floppy Drive	Disabled	DC000-DFFFF	Shadow	: Disabled
Boot Up Floppy Seek	Disabled			
Boot Up NumLock Status	On			
IDE HDD Block Mode	Enabled			
Gate A20 Option	Fast			
Memory Parity/ECC Check	Disabled			
Typeomatic Rate Setting	Disabled			
Typeomatic Rate (Chars/Sec)	6			
Typeomatic Delay (Msec)	250			
Security Option	Setup			
PCI/VGA Palette Snoop	Disabled			
OS Select For DRAM > 64MB	Non-OS2			
↑↓←→ Move Enter: Select +/-/PU/PD: Modify F10:Save ESC: Exit F1:General Help F5:Old Values F6:Load BIOS defaults F7:Load Setup Defaults				

■ Virus Warning

Virus Warning:

- Enabled
- Disabled

If this function enabled and someone attempt to write data into this area, BIOS will automatically show a warning message on screen and alarm beep.

Default: Disabled

■ CPU internal / external cache

CPU internal / external cache: These two items controls Enable / Disable the CPU internal /

- Enabled
- Disabled

external cache.

Default: Enabled

■ CPU L2 Cache ECC Checking

CPU L2 Cache ECC Checking: This item allows you to enable / disable CPU L2 Cache

- Enabled
- Disabled

ECC Checking.

Default: Enabled

III. CMOS SETUP UTILITY

■ Quick Power On Self Test

Quick Power On Self Test: This item speeds up Power On Self Test (POST) after you power up the computer. If it is set to Enable, BIOS will shorten or skip some check items during POST.

- Enabled
- Disabled

Default: Disabled

■ Boot Sequence

Boot Sequence:

This item defines where the system will look for an operating system, and the order of priority. The boot up search sequence shown as left.

- A,C,SCSI
- C,A,SCSI
- C,CDROM,A
- CDROM,C,A
- D,A,SCSI
- E,A,SCSI
- F,A,SCSI
- SCSI,A,C
- SCSI,C,A
- C only
- LS/ZIP,C

Default: A,C,SCSI

■ Swap Floppy Drive

Swap Floppy Drive:

If the system has two floppy drives, choose enable to assign physical drive B to logical drive A and vice-versa.

- Enabled
- Disabled

Default: Disabled

■ Boot Up Floppy Seek

Boot Up Floppy Seek:

Seeks disk drives during boot up.

- Enabled
- Disabled

Default: Enabled

■ Boot Up Numlock Status

Boot Up Numlock Status:

Selects power on state for Numlock.

- Off
- On

Default: On

III. CMOS SETUP UTILITY

■ Gate A20 Option

- Gate A20 Option: Normal - a pin in the keyboard controller controls GateA 20.
Fast-lets chipset control GateA 20
- Normal
 - Fast

Default: Fast

■ Memory Parity/ECC Check

- Memory Parity/ECC Check: To Enabled or Disabled the BIOS memory parity / ECC Check function.
- Enabled
 - Disabled

Default: Disabled

■ Typematic Rate Setting

- Typematic Rate Setting: Key strokes repeat at a rate determined by the keyboard controller, when enabled, the typematic rate and typematic delay.
- Enabled
 - Disableddelay can be selected.

Default: Disabled

■ Typematic Rate (Chars/Sec)

- Typematic Rate (Chars/Sec): Sets the number of times a second to repeat a key stroke when you hold the key down.
- 6
 - 8
 - 10
 - 12
 - 15
 - 20
 - 24
 - 30

Default: 6

■ Typematic Delay (Msec)

- Typematic Delay (Msec): Select the delay time after the key is held down before it begins to repeat the key strokes.
- 250
 - 500
 - 750
 - 1000

Default: 250

III. CMOS SETUP UTILITY

■ Security option

Security option:

- Setup
- System

Select whether the password is required every time the system boots or only when you enter setup.

Setup - The system will boot up.

System - The system will not boot and access to setup will be denied if the correct password is not entered at the prompt.

Default: Setup

■ PCI/VGA Palette Snoop

PCI/VGA Palette Snoop:

- Enabled
- Disabled

Set this item to Enabled to reduce display problem when both PCI VGA and some graphic accelerator devices such as MPEG/Video capture cards are installed in your system.

Default: Disabled

■ OS Select for DRAM > 64MB

OS Select for DRAM > 64MB:

- Non-OS/2
- OS/2

Select OS2 only if you are running OS/2 operating system with greater than 64MB of RAM on the system.

Default: Non-OS/2

■ Video BIOS Shadow

Video BIOS Shadow:

- Enabled
- Disabled

This item defines if you leave default setting, video BIOS memory will be copied from ROM into DRAM area to enhance system performance as DRAM access time is faster than ROM.

Default: Enabled

■ C8000-CBFFF Shadow to DC000-DFFFF Shadow

C8000-CBFFF Shadow to DC000-DFFFF Shadow:

- Enabled
- Disabled

Set Enabled if you know the address that your add on card ROM used to shadow them. If the item is Enabled, BIOS will copy the selected area from ROM to RAM to increase system performance.

Default: Disabled

III. CMOS SETUP UTILITY

3-4 Chipset Feature Setup

This item allows you to configure the system based on the specific features of the chipset. This chipset manages bus speed and access to system memory resources, such as DRAM and external cache. It also coordinates communications between the conventional ISA bus and the PCI bus. It must be stated that these items should never need to be altered. The default settings have been chosen because they provide you the best operating conditions for your system. The only time you might consider making any changes if you discovered that the data were being lost while control your system.

CHIPSET FEATURE SETUP AWARD SOFTWARE, INC.

Bank 0/1 DRAM Timing	: SDRAM 10ns	Auto Detect DIMM/PCI Clk	: Enabled
Bank 2/3 DRAM Timing	: SDRAM 10ns	Spread Spectrum	: Disabled
Bank 4/5 DRAM Timing	: SDRAM 10ns	CPU Host Clock (CPU / PCI)	: Default
SDRAM Cycle Length	: 3		
DRAM Clock	: HCLK-33M		
Memory Hole	: Disabled		
Read Around Write	: Disabled		
Concurrent PCI/Host	: Disabled		
System BIOS Cacheable	: Disabled		
Video RAM Cacheable	: Disabled		
AGP Aperture Size	: 64M		
AGP-2X Mode	: Enabled		
Onchip USB	: Enabled		
USB Keyboard Support	: Disabled		
Onchip Sound	: Enabled		
Onchip Modem	: Enabled		
		ESC : Quit	↑ ↓ → ← : Select Item
		F1 : Help	PU/PD/+/- : Modify
		F5 : Old Values	(Shift) F2 : Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

- Bank 0/1 DRAM Timing
- Bank 2/3 DRAM Timing
- Bank 4/5 DRAM Timing

Bank 0/1 DRAM Timing: These items allow you set the DRAM timing type on the memory slot DIMM1, DIMM2 & DIMM3.

- SDRAM 10ns
- SDRAM 8ns
- Normal
- Medium
- Fast
- Turbo

Default: SDRAM 10ns

III. CMOS SETUP UTILITY

■ SDRAM Cycle Length

SDRAM Cycle Length: This item defines SDRAM Cycle Length.

- 3
- 2

Default: 3

■ DRAM Clock

DRAM Clock: You can set the speed of the DRAM in terms of a fraction of the CPU Clock speed (Host CLK), or at the fixed speed of (HCLK-33M).

- Host CLK
- HCLK-33M

Default: HCLK-33M

■ Memory Hole

Memory Hole: In order to improve performance, certain space in memory is reserved for ISA cards. This memory must be mapped into the memory space below 16MB.

- Disabled
- 15M-16M

Default: Disabled

■ Read Around write

Read Around write: DRAM optimization feature: If a memory read is addressed to a location whose latest write is being held in a buffer before being written to memory, the read is satisfied through the buffer contents, and the read is not sent to the DRAM.

- Enabled
- Disabled

Default: Disabled

■ Concurrent PCI/Host

Concurrent PCI/Host: When disabled, CPU bus will be occupied during the entire PCI operation period.

- Enabled
- Disabled

Default: Disabled

■ System BIOS Cacheabled

System BIOS Cacheabled: Selecting *Enabled* allows caching of the system BIOS ROM at F0000h-FFFFFh, resulting in better system performance. However, if any program writes to this memory area, a system error may result.

- Enabled
- Disabled

Default: Disabled

III. CMOS SETUP UTILITY

■ Video RAM Cacheabled

Video RAM Cacheabled:

- Enabled
- Disabled

Select Enabled allows caching of the video RAM, resulting in better system performance. However, if any program writes to this memory area, a system error may result.

Default: Disabled

■ AGP Aperture Size

AGP Aperture Size:

- 128M
- 64M
- 32M
- 16M
- 8M
- 4M

Select the size of Accelerated Graphics Port (AGP) aperture. The aperture is a portion of the PCI memory address range dedicated for graphics memory address space. Host cycles that hit the aperture range are forwarded to the AGP without any translation.

Default: 64M

■ AGP-2X Mode

AGP-2X Mode:

- Enabled
- Disabled

This item allows you to enable / disable the AGP-2X (Clock 133MHz) Mode.

Default: Enabled

■ Onchip USB

Onchip USB:

- Enabled
- Disabled

This should be enabled if your system has a USB installed on the system board and you wish to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature.

Default: Enabled

■ USB Keyboard Support

USB Keyboard Support:

- Enabled
- Disabled

Select *Enabled* if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard.

Default: Disabled

III. CMOS SETUP UTILITY

■ Onchip Sound

Onchip Sound:

- Enabled
- Disabled

This should be enabled if your system has a sound installed on the system board and you wish to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature.

Default: Enabled

■ Onchip Modem

Onchip Modem:

- Enabled
- Disabled

This should be enabled if your system has a modem installed on the system board and you wish to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature.

Default: Enabled

■ Auto Detect DIMM/PCI Clk

Auto Detect DIMM/PCI Clk:

- Enabled
- Disabled

This item will detect DIMM/PCI Clk automatically.

Default: Enabled

■ Spread Spectrum

Spread Spectrum:

- Disabled
- 0.25%
- 0.50%

This item will help to low Electro Magnetic Interference.(EMI)

Default: Disabled

■ CPU Host Clock (CPU/PCI)

CPU Host Clock (CPU/PCI):

This item allows you select CPU Host Clock with software way.

III. CMOS SETUP UTILITY

3-5 Power Management Setup

**ROM PCI/ISA BIOS(2A6KL00B)
POWER MANAGEMENT SETUP
AWARD SOFTWARE, INC.**

ACPI Function : Enabled	Primary INTR : ON	
Power Management : User Define	IRQ3 (COM2) : Primary	
PM Control by APM : Yes	IRQ4 (COM1) : Primary	
Video Off After : Suspend	IRQ5 (LPT 2) : Primary	
Video Off Method : V/H SYNC + Blank	IRQ6 (Floppy Disk) : Primary	
MODEM Use IRQ : 3	IRQ7 (LPT 1) : Primary	
Soft-Off by PWRBTN : Instant-Off	IRQ8 (RTC Alarm) : Disabled	
PWRON After PW-Fail : Former-Sts	IRQ9 (IRQ2 Redir) : Secondary	
HDD Power Down : Disable	IRQ10 (Reserved) : Secondary	
Doze mode : Disable	IRQ11 (Reserved) : Secondary	
Suspend Mode : Disable	IRQ12 (PS/2 Mouse) : Primary	
PM Events	IRQ13 (Coprocessor) : Primary	
VGA : OFF	IRQ14 (Hard Disk) : Primary	
LPT & COM : LPT & COM	IRQ15 (Reserved) : Disabled	
HDD & FDD : ON	ESC: Quit ~ : Select Item	
PCI Master : OFF	F1 : Help PU/PD/+/-:Modify	
Modem Ring Resume : Disabled	F5 : Old Values (Shift) F2:Color	
RTC Alarm Resume : Disabled	F6: Load BIOS Defaults	
	F7: Load Setup Defaults	

■ ACPI function

ACPI function:

- Enabled
- Disabled

This item allows you to enable/disable the Advanced Configuration and Power Management (ACPI).

Default: Enabled

■ Power Management

Power Management:

- User Define
- Min Saving
- Max Saving

This category allows you to select the type (or degree)

of power saving and there of power saving and there are three selections for Power management:

1. Min. Power Saving: Minimum power management. Doze Mode = 1 hr. Standby Mode = 1 hr., Suspend Mode = 1 hr., and HDD Power Down = 15 min.

2. Max. Power Saving: Maximum power management — **ONLY AVAILABLE FOR SL CPU'S.** Doze Mode = 1 min., Standby Mode = 1 min., Suspend Mode = 1 min., and HDD Power Down = 1 min.

3. User Defined: Allows you to set each mode individually. When not disabled, each of the ranges are from 1 min. to 1 hr. except for HDD Power Down which ranges from 1 min. to 15 min. and disable.

Default: User Define

III. CMOS SETUP UTILITY

■ PM Control by APM

PM Control by APM:

- Yes
- No

When enabled, an Advanced Power Management device will be activated to enhance the Max. Power Saving mode and stop the CPU internal clock. If AdvancePower Management (APM) is installed on your system, selecting Yes gives better power savings. If the Max. Power Saving is not enabled, this will be preset to *No*.

Default: Yes

■ Video Off After

Video Off After:

- NA
- Suspend
- Doze

When enabled, this feature allows the VGA adapter to operate in a power saving mode.

Default: Suspend

■ Video Off Method

Video Off Method:

- Blank Screen
- V/H SYNC + Blank
- DPMS Support

This determines the manner in which the monitor is blanked.

- 1. V/H SYNC+Blank:** This selection will cause the system to turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.
- 2. Blank Screen:** This option only writes blanks to the video buffer.
- 3. DPMS Support:** Select this option if your monitor supports the Display Power Management Signaling (DPMS) standard of the Video Electronics Standards to select video power management values.

Default: V/H SYNC + Blank

■ Modem Use IRQ

Modem Use IRQ:

- NA
- 3
- 4
- 5
- 7
- 9
- 10
- 11

This determines the IRQ in which the MODEM can use.

Default: 3

III. CMOS SETUP UTILITY

■ **Soft-Off by PWRBTN**

Soft-off by PWRBTN: Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state when the system has "hung".

- Delay 4 Sec
- Instant-Off

Default: Instant-Off

■ **PWRON After PW-Fail**

PWRON After PW-Fail: When the power fails to start, system power will be on automatically.

- Former-Sts
- On
- Off

Default: Former-Sts

■ **HDD Power Down**

HDD Power Down: When enabled and after the set time of system inactivity, the hard disk drive will be powered down while all other devices remain active.

- Disable
- 1min-15min

Default: Disable

■ **Doze Mode**

Doze Mode: When enabled and after the set time of system inactivity, the CPU clock will run at slower speed while all other devices still operate at full speed.

- Disable
- 10Sec-40Sec
- 1Min-40Min
- 1 hour

Default: Disable

■ **Suspend Mode**

Suspend Mode: When enabled and after the set time of system inactivity, all devices except the CPU will be shut off.

- Disable
- 10 Sec-40 Sec
- 1 Min-40 Min
- 1 Hour

Default: Disable

■ **VGA**

VGA: When set to On, any event occurring at a VGA port will awaken a system which has been powered down.

- Off
- On

Default: Off

III. CMOS SETUP UTILITY

■ LPT & COM

LPT & COM:

- None
- LPT
- COM
- LPT/COM

When *On* of LPT & COM, any activity from one of the listed system peripheral devices or IRQs wakes up the system.

Default: LPT/COM

■ HDD & FDD

HDD & FDD:

- On
- Off

When *On* of HDD & FDD, any activity from one of the listed system peripheral devices wakes up the system.

Default: On

■ PCI Master

PCI Master:

- On
- Off

;When *On* of PCI Master, any activity from one of the listed system peripheral devices wakes up the system.

Default: Off

■ Modem Ring Resume

Modem Ring Resume:

- Enabled
- Disabled

An input signal on the serial Ring Indicator (RI) line (in other words, an incoming call on the modem) awakens the system from a soft off state.

Default: Disabled

■ RTC Alarm Resume

RTC Alarm Resume:

- Enabled
- Disabled

When *Enabled*, you can set the date and time at which the RTC (real-time clock) alarm awakens the system from Suspend mode.

Default: Disabled

■ Primary INTR

Primary INTR:

- On
- Off

When set to *On*, any event occurring at will awaken a system which has been powered down.

Default: On

III. CMOS SETUP UTILITY

- The following is a list of IRQ's, Interrupt ReQuests, which can be exempted much as the COM ports and LPT ports above can. When an I/O device wants to gain the attention of the operating system, it signals this by causing an IRQ to occur. When the operating system is ready to respond to the request, it interrupts itself and performs the service.

·	IRQ3 (COM 2)	Primary
·	IRQ4 (COM 1)	Primary
·	IRQ5 (LPT 2)	Primary
·	IRQ6 (Floppy Disk)	Primary
·	IRQ7 (LPT 1)	Primary
·	IRQ8 (RTC Alarm)	Disabled
·	IRQ9 (IRQ2 Redir)	Secondary
·	IRQ10 (Reserved)	Secondary
·	IRQ11 (Reserved)	Secondary
·	IRQ12 (PS / 2 Mouse)	Primary
·	IRQ13 (Coprocessor)	Primary
·	IRQ14 (Hard Disk)	Primary
·	IRQ15 (Reserved)	Disabled

When set On, activity will neither prevent the system from going into a power management mode nor awaken it.

III. CMOS SETUP UTILITY

3-6 PNP / PCI Configuration Setup

This section describes configuring the PCI bus system. PCI- Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of CPU itself using when communicates with its own special components. This section covers some very technical items and it is strongly recommended that only experienced users should make any changes to the default settings.

**ROM PCI/ISA BIOS(2A6KL00B)
PNP/PCI CONFIGURATION SETUP
AWARD SOFTWARE, INC.**

PNP OS Installed	:No	CPU to PCI Write Buffer	: Enabled
Resources Controlled By	:Auto	PCI Dynamic Bursting	: Enabled
Reset Configuration Data	:Disabled	PCI Master 0 WS Write	: Enabled
		PCI Delay Transaction	: Enabled
		PCI#2 Access #1 Retry	: Disabled
		AGP Master 1 WS Write	: Enabled
		AGP Master 1 WS Read	: Disabled
		Assign IRQ For USB	: Enabled
		Assign IRQ For VGA	: Enabled
		ESC: Quit	F1: ~ Select Item
		F1: Help	PU/PD/+/=: Modify
		F5: Old Values	(Shift) F2: Color
		F6: Load BIOS Defaults	
		F7: Load Setup Defaults	

■ PNP OS Installed

PNP OS Installed: This item allows you to determine install PnP OS or not.

- Yes
- No

Default: No

■ Resources Controlled By

Resources Controlled By: The Award Plug and Play BIOS has the capacity to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means abso lutely nothing unless you are using a Plug and Play operating system such as Windows95.

- Auto
- Manual

Default: Auto

■ Reset Configuration Data

Reset Configuration Data: Normally, you leave this field Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the operating system can not boot.

- Enabled
- Disabled

Default: Disabled

III. CMOS SETUP UTILITY

■ CPU to PCI Write Buffer

CPU to PCI Write Buffer:

- Enabled
- Disabled

When this field is *Enabled*, writes from the CPU to the PCI bus are buffered, to compensate for the speed differences between the CPU and the PCI bus. When *Disabled*, the writes are not buffered and the CPU must wait until the write is complete before starting another write cycle..

Default: Enabled

■ PCI Dynamic Bursting

PCI Dynamic Bursting:

- Enabled
- Disabled

When *Enabled*, every write transaction goes to the write buffer. Burstable transactions then burst on the PCI bus and nonburstable transactions don't.

Default: Enabled

■ PCI Master 0 WS Write

PCI Master 0 WS Write:

- Enabled
- Disabled

When *Enabled*, writes to the PCI bus are executed with zero wait states.

Default: Enabled

■ PCI Delay Transaction

PCI Delay Transaction:

- Enabled
- Disabled

The chipset has an embedded 32-bit posted write buffer to support delay transactions cycles. Select *Enabled* to support compliance with PCI specification version 2.1.

Default: Enabled

■ PCI#2 Access #1 Retry

PCI#2 Access #1 Retry:

- Enabled
- Disabled

When PCI#2 (AGP bus) access to PCI#1 (PCI bus) has a error occurred, .

Default: Disabled

■ AGP Master 1 WS Write

AGP Master 1 WS Write:

- Enabled
- Disabled

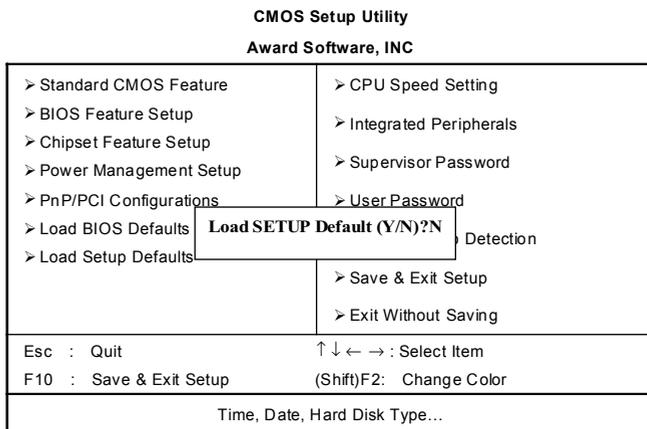
When *Enabled*, writes to the AGP(Accelerated Graphics Port) are executed with one wait states..

Default: Enabled

III. CMOS SETUP UTILITY

38 Load SETUP Defaults

The option allows you load BIOS optimized settings for maximum system performance. To load setup default, press 'Y' key to confirm the operation when you see the above display.



III. CMOS SETUP UTILITY

3-9 CPU Speed Setting

This option allows you to configure the CPU features.

ROM PCI/ISA BIOS(2A6KL00B)
Hardware Monitor
AWARD SOFTWARE, INC.

CPU Current Temperature	: 11C/51F	
Current System Temp.	: 15C/759F	
Current CPUFAN1 Speed	: 0 RPM	
Current CPUFAN2 Speed	: 0 RPM	
Vcore	:2.01V	2.5V :2.51V
3.3V	:3.25 V	5V :4.92V
12V	:11.70 V	
		ESC: Quit ↑ ↓ → ←: Select Item
		F1: Help PU/PD/+/-: Modify
		F5: Old Values (Shift) F2: Color
		F6: Load BIOS Defaults
		F7: Load Setup Defaults

■ Current CPU / System Temperature

Current CPU / System Temperature: Indicate the temperature of current CPU/System.

■ Current CPUFAN1 / CPUFAN2 Speed

Current CPUFAN1 / CPUFAN2 Speed: Indicate the speed of current CPUFAN1/CPUFAN2 on.

3-10 Integrated Peripherals

This option allows you to configure the I/O features.

ROM PCI/ISA BIOS (2A6LGTXA)
INTEGRATED PERIPHERALS
AWARD SOFTWARE, INC.

OnChip IDE Channel 0	: Enabled	Onboard Parallel Port	: 378/IRQ7
OnChip IDE Channel 1	: Enabled	Onboard Parallel Mode	: Normal
IDE Prefetch Mode	: Enabled		
Primary Master PIO	: Auto	Onboard Legacy Audio	: Enabled
Primary SlavePIO	: Auto	Sound Blaster	: Disabled
Secondary Master PIO	: Auto	SB I/O Base Address	: 220H
Secondary Slave PIO	: Auto	SB IRQ Select	: IRQ 5
Primary Master UDMA	: Auto	SB DMA Select	: DMA 1
Primary SlaveUDMA	: Auto	MPU-401	: Disabled
Secondary Master UDMA	: Auto	MPU-401 I/O Address	: 330 -333H
Secondary Slave UDMA	: Auto	Game Port (200-207H)	: Enabled
Init Display First	: PCI Slot		
Keyboard power on(VP1 only)	: Disable		
Onboard FDD Controller	: Enabled		
Onboard Serial Port 1	: Auto		
Onboard Serial Port 2	: Auto		
UART 2 Mode	: Standard		
		ESC: Quit	↑ ↓ → ←: Select Item
		F1 : Help	PU/PD/+/- : Modify
		F5 : Old Values (Shift)	F2: Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

III. CMOS SETUP UTILITY

■ Onchip IDE Channel 0

- Onchip IDE Channel 0: The chipset contains a PCI IDE interface with support for two IDE channels. Select Enabled to activate the primary IDE interface.
- Enabled
 - Disabled
- Select Disabled to deactivate this interface.

Default: Enabled

■ Onchip IDE Channel 1

- Onchip IDE Channel 1: The chipset contains a PCI IDE interface with support for two IDE channels. Select Enabled to activate the secondary IDE interface.
- Enabled
 - Disabled
- Select Disabled to deactivate this interface.

Default: Enabled

■ IDE Prefetch Mode

- IDE Prefetch Mode: The onboard IDE drive interfaces supports IDE prefetching, for faster drive accesses. If you install a primary and / or secondary add-in IDE interface, set this field to *Disabled* if the interface does not support prefetching.
- Enabled
 - Disabled

Default: Enabled

■ Primary/Secondary Master/Slave PIO

- Primary/Secondary Master/Slave PIO: The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 through 4 provide successively increased performance. In Auto mode, the system automatically determines the best mode for each device.
- Auto
 - Mode 0
 - Mode 1
 - Mode 2
 - Mode 3
 - Mode 4

Default: Auto

■ Primary/Secondary Master/Slave UDMA

- Primary/Secondary Master/Slave UDMA: Ultra DMA 33 implementation is possible only if your hard drive supports it and the operating environment includes a DMA driver (Windows 95 OSR2 or a third-party IDE bus master driver). If your hard drive and your system software both support Ultra DMA/33, select Auto to enable BIOS support.
- Auto
 - Disabled

Default: Auto

■ Init Display First

- Init Display First: This item allows you to decide to active whether PCI Slot or AGP first.
- PCI Slot
 - AGP

Default: PCI Slot

III. CMOS SETUP UTILITY

■ Keyboard Power On

Keyboard Power On: This item allows you to power on your PC with keyboard.

- Disabled
- Enabled

Default: Disabled

NOTE: The **Keyboard Power On** function only belongs to the VP1.

■ Onboard FDD Controller

Onboard FDD Controller: Select Enabled if your system has a floppy disk controller (FDC) installed on the system board and you wish to use it. If you install and-in FDC or the system has no floppy drive, select Disabled in this field.

- Disabled
- Enabled

Default: Enabled

■ Onboard Serial Port / Port2

Onboard Serial Port / Port2: Select an address and corresponding interrupt for the first and second serial ports.

- Disabled
- 3F8/IRQ4
- 2F8/IRQ3
- 3E8/IRQ4
- 2E8/IRQ3
- Auto

Default: Auto

■ UART 2 Mode

UART 2 Mode: This item allows you to determine which Infra Red (IR) function of onboard I/O chip.

- Standard
- HPSIR
- ASKIR

Default: Standard

■ Onboard Parallel Port

Onboard Parallel Port: This item allows you to determine access onboard parallel port controller with which I/O address.

- Disabled
- 3BC/IRQ7
- 378/IRQ7
- 278/IRQ5

Default: 378/IRQ7

III. CMOS SETUP UTILITY

■ Onboard Parallel Mode

- Onboard Parallel Mode: Select an operating mode for the onboard parallel (printer) port.
- Normal Select Normal unless your hardware and software require one of the other modes offered in this field.
 - EPP
 - ECP
 - ECP/EPP

Default: Normal

■ Onboard Legacy Audio

- Onboard Legacy Audio: Enabling this option allows the system to use the onchip legacy Sound Blaster-compatible audio support. If you want to use the on-chip AC97 audio support or an add-on audio card instead set this option to Disabled to avoid possible conflict.
- Enabled
 - Disabled

Default: Enabled

Note: The following fields are available only when the Onboard Legacy Audio is enabled.

■ Sound Blaster

- Sound Blaster: Enables / Disables the Sound Blaster compatible mode.
- Enabled
 - Disabled

Default: Disabled

■ SB I/O Base Address

- SB I/O Base Address: This option allows the user to select the audio I /O base address in Sound Blaster compatible mode.
- 220H
 - 240H
 - 260H
 - 280H

Default: 220H

■ SB IRQ Select

- SB IRQ Select: This option allows the user to select the IRQ for audio in Sound Blaster compatible mode.
- IRQ 5
 - IRQ 9
 - IRQ 10

Default: IRQ 5

III. CMOS SETUP UTILITY

■ SB DMA Select

SB DMA Select: This option allows the user to select the DMA for audio in Sound

- DMA 0 Blaster compatible mode.
- DMA 1
- DMA 2
- DMA 3

Default: DMA 1

■ MPU - 401

MPU - 401: Enables / Disables the MPU-401 MIDI interface standard.

- Enabled
- Disabled

Default: Disabled

■ MPU - 401 I/O Address

MPU - 401 I/O Address: This option allows the user to select the I/O base address for the use of MPU-401 MIDI device.

- 300-303H
- 310-313H
- 320-323H
- 330-333H

Default: 330-333H

■ Game Port (200-207H)

Game Port (200-207H): Enable this option to use the game port, which occupies 200-207H address.

- Enabled
- Disabled

Default: Enabled

3-11 Password Setting

Password prevents unauthorized use of your computer. If you set a password, the system prompts for the correct password before boot or access to setup, the steps as follows:

1. Highlight the item Password Setting on the main menu and press ENTER.
2. The password dialog box will appear.
3. If you are installing a new password, carefully type in the password. Press ENTER after you have typed in the password. If you are deleting a password that is already installed just press ENTER when the password dialog box appears.
4. The system will ask you to confirm the new password by asking you to type it in a second time. Carefully type the password again and press ENTER, or just press ENTER if you are deleting a password that is already installed.
5. If you typed the password correctly, the password will be installed.

III. CMOS SETUP UTILITY

[NOTE]

if you forget your password, or you want to cancel your password, you can do the steps as the following:

(1) Password forgotten:

- i. Turn off the system.
- ii. Short JP19 at Pin 2-3 for a few seconds to clear CMOS.
- iii. Set the JP19 back to Pin 1-2.
- iv. Power on the system.

(2) Clear Password:

Clear your password by key in the password you installed before, then go to password setting to press ENTER twice.

3-12 IDE HDD Auto Detection

This item automatically detects and installs any hard disk drives installed on the primary and secondary IDE channel. Most modern drives can be detected. If you are using a very old drive that can not be detected, you can install it manually using the Standard CMOS Setup option. Setup will check for two devices on the primary IDE channel and then two devices on the secondary IDE channel. At each device, the system will flash an N in the dialog box. Press Enter to skip the device and proceed to the next device. Press Y, then Enter to tell the system to accept the BIOS auto-detected device type.

3-13 Save & Exit Setup

Highlight this item and press ENTER to save the changes that you have made in the setup utility and exit the setup program. When the Save and Exit dialog box appears, press Y to save and exit, or press N to return to the setup main menu.

3-14 Exit without Saving

Use this option to exit setup utility without saving the CMOS value changes.

IV. SOFTWARE UTILITY

SECTION 4

SOFTWARE UTILITY

The support software for this mainboard may be supplied on a diskette or diskettes. All the support programs are stored in separate folders, so you can find the program you need easily enough. We recommend you to choose the program which you need most, it will assist your computer system to high performance. The support software contains the following programs:

- ❖ VIA V x D Setup Program
- ❖ VIA Audio Setup Program
- ❖ VIA Chipset Driver Setup Program
- ❖ VIA Hardware Monitor System V1.05

4-1 VIA V x D Setup Program

4-1.1 Driver files location:

VIA V x D driver location: \Ide\via\AGP\setup.exe

4-1.2 Procedure:

It will guide you to setup the processor and it is strongly recommended that you exit all windows program before running this setup program.

- ☞ Click "Next" to continue with the setup program.
- ☞ It appears three installation information, we had better choose the first choice:
 - Install VIA AGP V x D in turbo mode
 - Install VIA AGP V x D in normal mode
 - Uninstall VIA AGP V x D
- ☞ Click "Finish" to exit VIA AGP V x D finished setup. System will restart the computer.

4-2 VIA Audio Drivers

◆ Driver files location:

VIA Audio Driver location: \Audio\via1611\setup.exe

VIA Audio Driver Setup program will install VIA Audio Driver on your computer. It is strongly recommended that you exit all windows program before running this setup program.

IV. SOFTWARE UTILITY

4-3 VIA Chipset Driver Setup Program

4-3.1 Driver files location:

VIA Chipset Drive files location: \Ide\via\idel\setup.exe

4-3.2 Procedure:

It will guide you to setup the processor and it is strongly recommended that you exit all windows program before running this setup program.

- ☛ Click “Next” to continue with the setup program.
 - Install the VIA Chipset driver
- ☛ Click Finish to exit VIA Chipset finished setup. System will restart the computer.

4-4 VIA Hardware Monitor System V 1.05

◆ Driver files location:

HardwareMonitor Driver location: \Sysmon\viahm105\VIAhm.exe

You should copy the file from CD to your hard disk, then run viahm.exe program.

You will see the following interface on the monitor, it shows CPU temperature, voltage and system environment temperature etc.

