

MP-VIP4-A2

Motherboard

User's Manual

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Chapter 1. Introduction

1.1 Product Overview

Thank you for purchasing the **MP-VIP4-A2** motherboard. This motherboard utilizes **VIA**'s latest technology, namely **VT82C598MVP** chipset. We have conducted a motherboard compatibility test with a variety of hardware and software, such as CPUs, memory, display card, CD ROM, Novell, MS Office....etc.

We set high standards on our quality control, with absolute confidence, we believe this product is the wisest choice.

This manual is composed of two sections. The first section explains the proper procedure to setup the MP-VIP4-A2 motherboard, and the second section provides information on how to setup the CMOS.

Features:

- i . Support Desktop Management Interface (DMI) through BIOS.
- i . Support NCR SCSI BIOS.
- i . Support Accelerated Graphics Port (AGP) cards for high performance.
- i . Modem Remote Ring On.
- i . RTC Wake Up Alarm: Program the date/time to wake up your system.
- i . CPU & System Voltage Monitoring.(OPTION)
- i . CPU, Chassis & Power supply fan speed monitoring.
- i . Support Advanced Configuration Power Interface (ACPI).
- i . BIOS Green feature function, and “Plug & Play” Flash ROM.

1.2 Content

The **MP-VIP4-A2** motherboard contains the following items:

- The MP-VIP4-A2 Motherboard
- One IDE Ribbon Cable
- One Floppy Ribbon Cable
- One CD-ROM Driver
- Magic-Pro Warranty card & Quick Installation Chart

1.3 Specification

CPU: -Supports 75-350 MHz Pentium® Processors (P54C), and Pentium® Processors with MMX technology (P55C)
-Supports AMD K5/K6 PR serial CPUs
-Supports Cyrix/IBM 6x86/6x86L/6x86MX serial CPUs

Chipset: -VIA MVP3 Chipset VT82C598 MVP

System Clock: -Supports 60/66/75/83/95/100 MHz Host clock
-Supports 8 MHz AT bus speed

DIMM: -Supports 66MHz or faster 3.3V in 3 168-pin banks, 3 168-pin 64-bit DIMM sockets using 8/16/32/64/128 MB memory
-Supports up to a maximum of 384 MB system memory
-Optional bank-by-bank ECC or EC for DRAM integrity

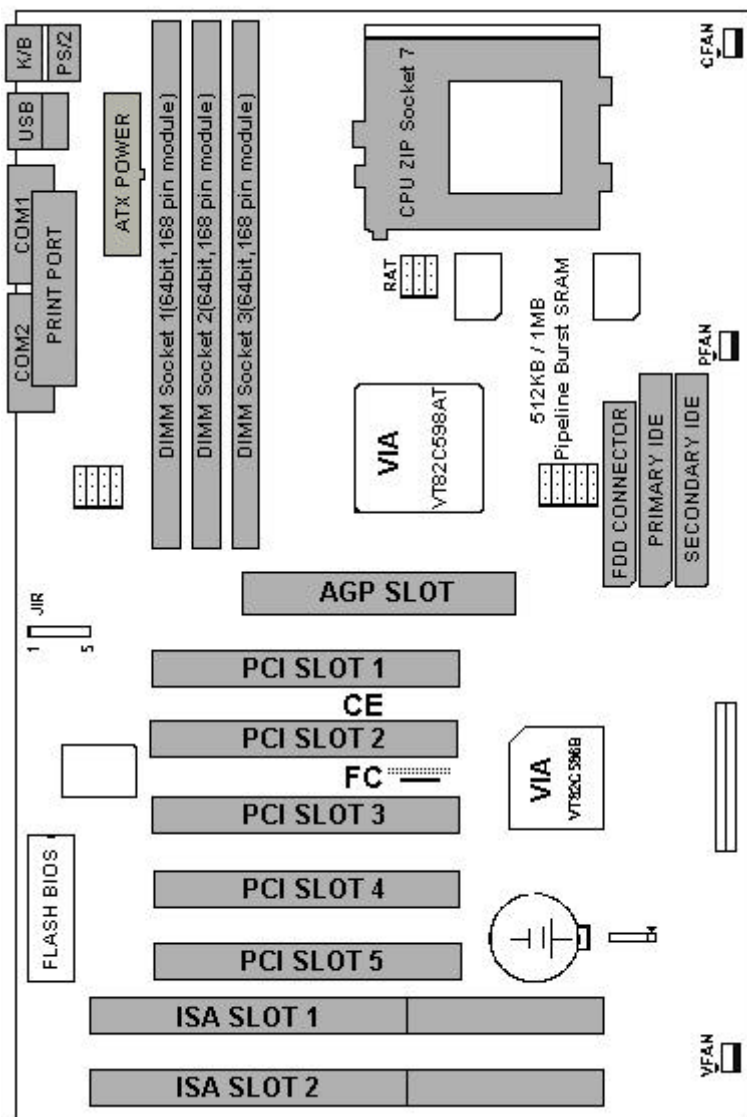
L2 Cache: -Onboard 512KB/1MB Pipeline Burst SRAM

IDE: -Dual channel PIO and PCI Bus Master IDE ports support up to 4 EIDE devices for HDD or CD-ROM or others
-Supports PIO Mode 4 with data transfer rate up to 22 MB/Sec
-Supports Ultra DMA 33 (UDMA) with data transfer rate up to 33 MB/Sec
-Supports multi-word DMA Mode 2 transfer

I/O Devices: -One FDD control port supports two of the 5.25" or 3.5" floppy drives up to 2.88 MB.
-Two high-speed 16550 UART compatible serial ports
-One parallel ports with ECP/ EPP/SPP compatibility.
-One PS/2 mouse connector (mini Din)
-One PS/2 Keyboard connector (mini Din)

-
- IR Port:** -One HPSIR compatible IrDA interface port.
(Cable optional)
- USB Ports:** -Two Universal Serial Bus (USB) ports support up to 127 peripheral devices.
-Universal Host Controller Interface V.1.1 compatible
-Supports 1.5-12MB/S transfer rates
-Supports legacy keyboard and mouse
- BIOS:** -Award BIOS V.4.51 with built-in Anti-Virus, DMI support, and green function (Plug-and-Play BIOS)
-Supports NCR SCSI BIOS
-Supports CD-ROM, SCSI, and LS120/ZIP boot up
-Supports Multiple Boot Up
- Power Management:** -Supports ACPI & APM
-Supports ring remote power-on function
-Supports software power off function
-Supports RTC Alarm.
-ATX power button
- Expansion Slots:** -One 64-bit AGP expansion slot
-Five 32-bit PCI expansion slots
-Two 16-bit ISA expansion slots
-Supports latest PCI 2.1 standard
- Operating System:** -Supports Windows 95, Windows NT, MS-DOS V6.22, OS2, Novell, Unix, SCO UNIX
- Board Size:** -305mm x 185mm ATX form factor
- Other:** -On-board PWM switching power supply for CPU core voltage
-Auto disable clock not used to reduce EMI
-Supports CPU & system temperatures, system voltages & fan speeds monitoring (option)
-

1.4 MP-VIP4-A2 System Board Layout



Chapter 2. Hardware Setup

2.1 Installation Procedure

1. Jumper setting (BIOS and CPU)
2. Installation of CPU
3. Installation of Memory
4. I/O Connections & Panel Connections

2.1.1 Jumper Settings

In this manual , (1-2) represents the first and second pins of the jumper. (2-3) represents the second and third pins of the jumper, and so on. "ON" means put on the jumper cap and "OFF" means remove the jumper cap. On the motherboard, you will see three sets of jumpers with different color jumper caps:

Yellow Jumper Caps :Sets the Function and of Flash CMOS
BAT, JAGP1~2,CLK1~2

Red Jumper Caps :Sets the voltage of CPU
VOL

Green Jumper Caps :Sets the type and speed of CPU
RAT1~3, MHZ1~3

WARNING: Electronic parts are Static sensitive. To prevent damage to the computer and its parts please take the following measures.

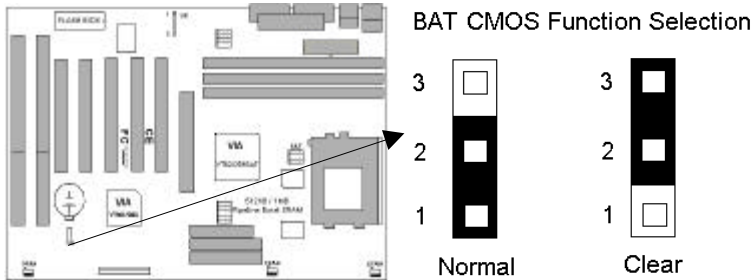
- Work on a surface such as concrete, linoleum or hard wood floor.
- Ground your self with either a properly installed grounding strap or by touching a major electrical appliance long enough to discharge the static.

2.1.2 Clearing the CMOS(Yellow Jumper Cap)

BAT :CMOS Function Selection

1-2 ON :Normal Operation(Default Setting)

2-3 ON :Clear CMOS setting



How to Remove the CMOS Setting

1. Turn off the power.
2. Remove ATX power cable from connector CN1.
3. Remove Yellow Jumper Cap from BAT(1-2) and put on BAT(2-3) to remove the CMOS setting.
4. Remove Yellow Jumper Cap from BAT(2-3) and put on BAT(1-2).
5. Connect ATX power cable back to connector CN1.
6. Turn on the power.
7. While the system reboots, press key to set the BIOS setup.

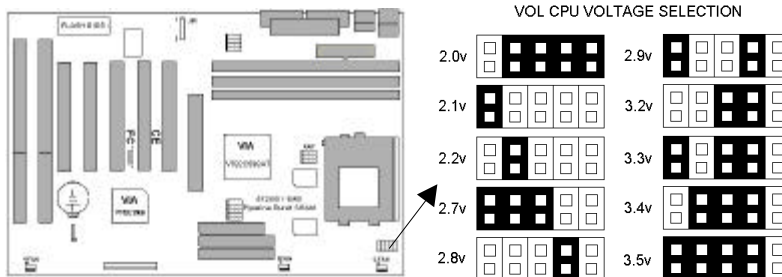
2.1.3 CPU Voltage Selection (Red Jumper Caps)

Before the use of this motherboard, make sure all jumpers are set correctly. The wrong setting might damage the CPU and the motherboard.

CPU Voltage may vary. Check with CPU manufacturer for its correct voltage.

CPU Brand	CPU TYPE	CPU Voltage	VOL
AMD	K6-266	2.0V	2,3,4,5 short
AMD	K6-266~333	2.1V	1 short
AMD	K6/K6-2-266~333	2.2V	2 short
Cyrix	6x86 MX	2.7V	1,2,3 short
Intel/Cyrix	P55C-MMX/6x86L	2.8V	4 short
AMD/Cyrix	K6-166/200, 6x86MX,M2	2.9V	1,4 short
AMD	K6-233	3.2V	3,4 short
Intel	P54C	3.3V	1,3,4 short
Intel	P54C	3.4V	2,3,4 short
AMD/Cyrix	K5/6x86	3.5V	1,2,3,4 short

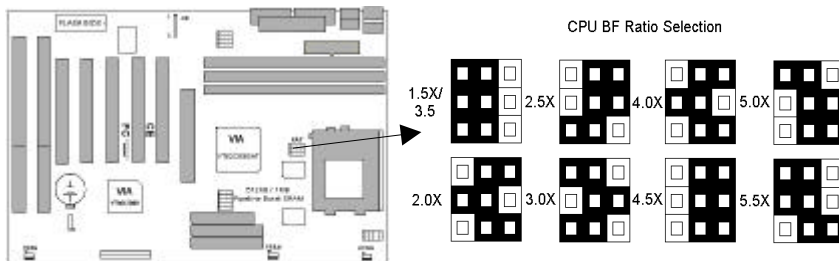
2.8V is the default setting (this setting is for Intel P55C CPUs)



2.1.4 CPU BF Ratio Selection (Green Jumper Caps)

BUS/CORE	BAT1	BAT2	BAT3
1.5x/3.5x	1-2	1-2	1-2
2.0x	2-3	1-2	2-3
2.5x	2-3	2-3	1-2
3.0x	1-2	2-3	1-2
4.0x	2-3	1-2	2-3
4.5x	2-3	2-3	2-3
5.0x	1-2	2-3	2-3
5.5x	1-2	1-2	2-3

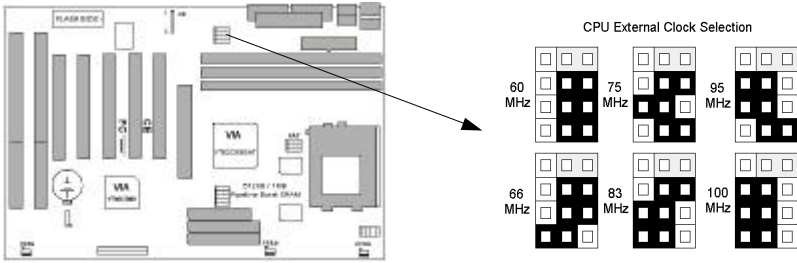
3.0x is the default setting(this setting is for Intel P55C-200 CPU)



2.1.5 CPU External Clock Selection (Green Jumper Caps)

Clock	MHz1	MHz2	MHz3
60MHz	2-3	2-3	2-3
66MHz	2-3	2-3	1-2
75MHz	2-3	1-2	2-3
83MHz	2-3	1-2	1-2
95MHz	1-2	1-2	2-3
100MHz	1-2	1-2	1-2

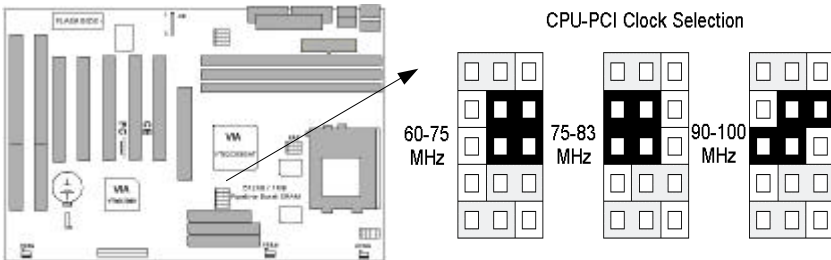
66MHz is the default setting(this setting is for Intel P55C-200 CPU)



2.1.6 CPU-PCI Clock Selection (Yellow Jumper Caps)

CPU CLOCK	JAGP1	JAGP2
60~75 MHz	2-3	2-3
75~83 MHz	1-2	1-2
90~100 MHz	2-3	1-2

60~75 MHz is the default setting(this setting is for Intel P55C-200 CPU)

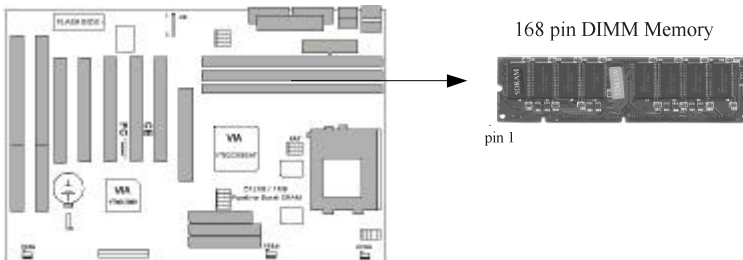


2.2 Installation of CPU

Before installing CPU, make sure the power is off. Locate the white color level bar on the ZIF socket. Push level bar away from the socket and pull upward 90 degrees. Insert the CPU into the socket. Make sure the notch of the CPU corresponds with the white dot on the ZIF socket (the corner without pin socket). Do not push in the CPU. Make sure all pins are aligned with the CPU socket. Close the level bar.

2.3 Installation of Memory

MP-VIP4-A2 motherboard has 3x168-pin 64-bit Dual Inline Memory Module(DIMM)sockets divided into 3 banks. You can install 3.3V Extended Data Output(EDO)or Unbuffered Synchronous DRAM(SDRAM)memory. This will increase the system reliability.



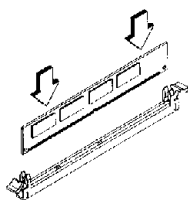
2.3.1 Installation of 168-pin DIMM

1. Before inserting the DIMM, make sure the pin1 of the DIMM matches with the pin1 on the DIMM socket.
2. Insert DIMM into the DIMM sockets at a 90-degree angle and press down.

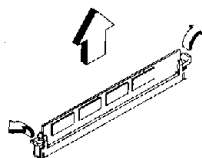
2.3.2 Removal of 168-pin DIMM

1. Press the holding clips on both sides of the socket outward to release the DIMM.

2. Gently pull the DIMM out of the socket.



Install DIMM



Remove DIMM

2.3.3 Memory Configuration

There is no jumper setting required for the memory size or type. It is automatically detected by the system BIOS, and the total memory size is to add them together.

<i>DIMM Socket</i>	<i>DIMM Modules</i>
DIMM1	EDO/SDRAM 8, 16, 32, 64, 128MB
DIMM2	EDO/SDRAM 8, 16, 32, 64, 128MB
DIMM3	EDO/SDRAM 8, 16, 32, 64, 128MB

The MP-VIP4-A2 Motherboard has been tested with the memory listed below.

<i>Size/Type</i>	<i>Vendor</i>	<i>Model</i>	<i>Side</i>	<i>Chip Count</i>	<i>SPD</i>
16MB/SDRAM	Fujitsu	811171622A-100FN	x2	8	No
16MB/SDRAM	Hitachi	HM5216805TT10	x1	8	No
16MB/SDRAM		HY57V168010BTC-10	X1	8	Yes
32MB/SDRAM	Mitsubishi	M5M4V16S30BTP-10	x2	16	No
32MB/SDRAM	Mitsubishi	M5M4V16S30BTP-10	x2	16	Yes
32MB/SDRAM	OKI	M56V16800D-10	X2	16	No
32MB/SDRAM		HY57V168010BTC-10	x2	16	Yes
32MB/SDRAM	TI	TMS626812DGE-12A	x2	16	No
32MB/SDRAM	Micronic	MT48LC2M8A1-12	x2	16	No
64MB/EDO	Panasonic	MN41V17400CTT-06	X2	32	No
128MB/SDRAM	NEC	D4564841G5-A10-9JF	x2	16	No

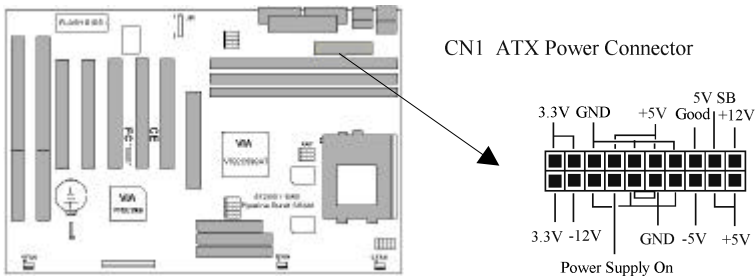
2.4 I/O Connections/Panel Connections

I/O Connections

CN1	ATX Power Connector
JIR1, IR	IrDA Connector (Cable optional)
FDD1	Floppy Disk Drive Connector
IDE1, 2	Primary/ Secondary IDE Connectors
PS2, J2	PS/2 Mouse Port
KB, J1	Keyboard Connector
COM1,2	Serial Ports 1 & 2
LPT1	Printer Port
JUSB1	USB Connector

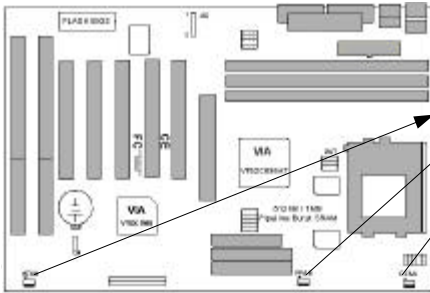
2.4.1 ATX Power Connector (20-pin CN1)

Make sure that the power supply is off before connecting or disconnecting the power cable.



2.4.1 Power, Chassis & CPU Fan Connectors (3-pin FAN)

Connect the fan's plug to the board taking into consideration the polarity of the connector.

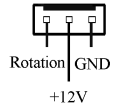


FAN Connectors

VFAN: PowerFAN Connector

CFAN: ChassisFAN Connector

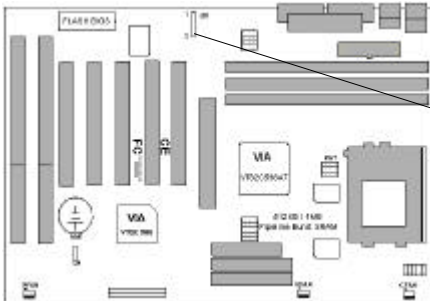
PFAN: CPUFAN Connector



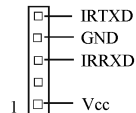
2.4.2 IrDA Connector (5-pin JIR1 & IR)

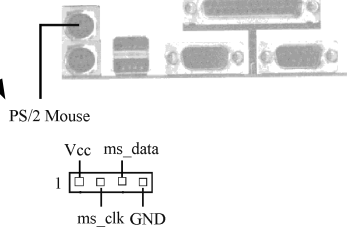
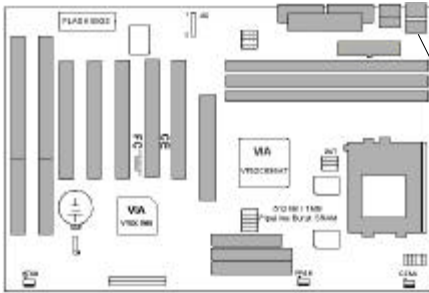
This connector supports the optional wireless transmitting and receiving infrared module, with this module and application software such as Laplink or Win95 Direct Cable Connection, user can transfer files to or from their laptops, notebooks, PDA, PCs and printers. The connector supports HPSIR (115.2Kbps, 2 meters) . Install infrared module onto IrDA connector and configure the setting through ‘UART 2 Mode’ in **Integrated Peripherals** to select.

whether UART is directed for use with COM2 or IrDA.



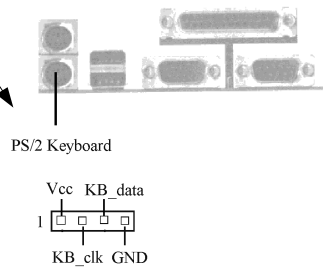
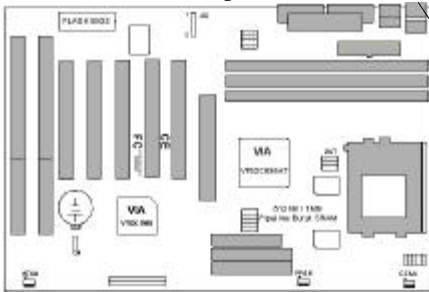
IrDA Connector



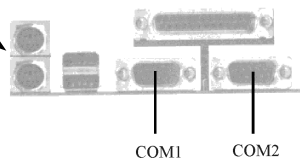
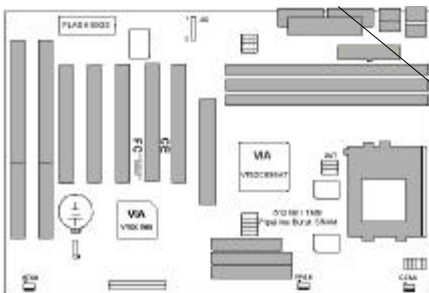


2.4.7 Keyboard Connector (6-pin Mini-Din KB & 4-pin J1)

This connection is for a standard keyboard using a PS/2 plug. You may use a Din to Mini-Din adapter on standard AT keyboards.

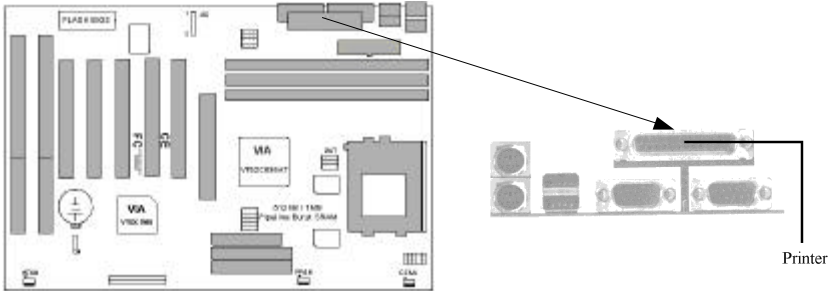


2.4.7 Serial Port (Two 9-pin D-type COM)



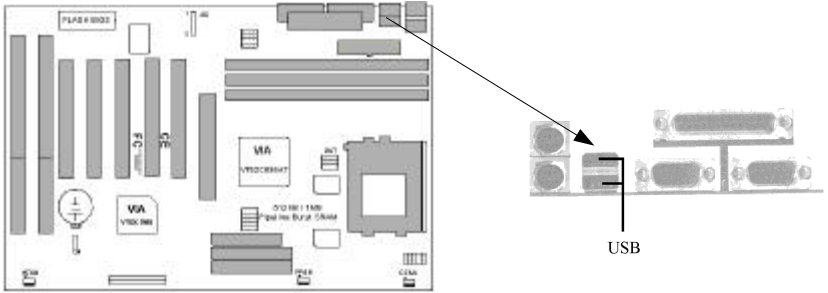
2.4.8 Printer Port (25-pin D-type LPT1)

You can enable the parallel port and choose the IRQ through the “Onboard Parallel Port” setting in **Integrated Peripherals** of the COMS SETUP UTILITY.



2.4.9 USB Connectors (Two 4-pin USB)

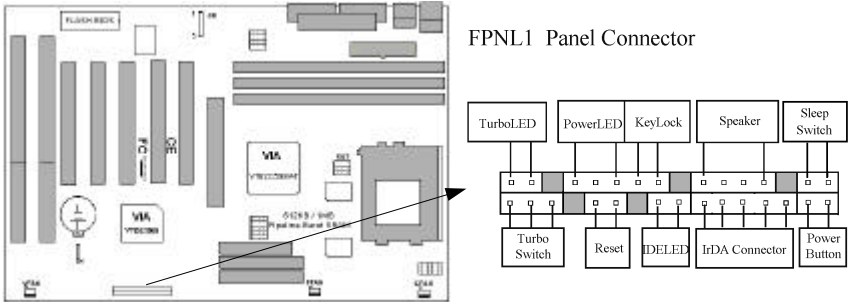
You can attach USB devices to the USB connector.



2.4.10 Panel Connection (32-pin FPNL1)

FPNL1 Connector	Function
TBLED	Turbo LED
KEYLOCK	Power LED and Keylock Switch
SPK	Speaker
SMI	Sleep Switch
TRSW	Turbo Switch
RST	Reset Switch
IDE	HDD LED
IR	IrDA Connector
PR	ATX Power Switch Connector

WARNING: To avoid the system from failing, turn off the power before connecting any devices to the system.



Chapter 3. BIOS Setup

Starting Setup

The Award BIOS is immediately activated when you first power on the computer. The BIOS reads the system information contained in the CMOS and begins the process of checking out the system and configuring it. When it finishes, the BIOS will seek an operating system on one of the disks and then launch and turn control over to the operating system.

While the BIOS is in control, the Setup program can be activated in one of two ways:

By pressing key immediately after you turn on the system, or by pressing the key when the following message "Press **DEL** to enter SETUP" should appear in the lower left hand corner of your screen.

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. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to...

PRESS F1 TO CONTINUE, DEL TO ENTER SETUP

Using Setup

In general, you use the arrow keys to highlight items, press <Enter> to select, use the PageUp and PageDown keys to change entries, press <F1> for help and press <Esc> to quit. The following table provides more detail about how to navigate in the Setup program using the keyboard.

Getting Help

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc> or the F1 key again.

Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item in the left hand
Right arrow	Move to the item in the right hand
Esc key	Main Menu -- Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu -- Exit current page and return to Main Menu
PgUp key	Increase the numeric value or make changes
PgDn key	Decrease the numeric value or make changes
+ key	Increase the numeric value or make changes
- key	Decrease the numeric value or make changes
F1 key	General help, only for Status Page Setup Menu and Option Page Setup Menu
(Shift)F2 key	Change color from total 16 colors. F2 to select color forward, (Shift) F2 to select color backward
F3 key	Calendar, only for Status Page Setup Menu
F4 key	Reserved
F5 key	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
F6 key	Load the default CMOS value from BIOS default table, only for Option Page Setup Menu
F7 key	Load the default
F8 key	Reserved
F9 key	Reserved
F10 key	Save all the CMOS changes, only for Main Menu

3.1 Main Menu

Once you enter the Award BIOS CMOS Setup Utility, the Main Menu will appear on the screen **Figure 3-1**; ^The Main Menu allows you to select from several setup functions and two exit choices. Use the arrow keys to select among the items and press <Enter> to accept and enter the sub-menu.

Figure 3-1. CMOS Setup Utility Main Screen

ROM PCI/ISA BIOS (2A5LEV5B) CMOS SETUP UTILITY AWARD SOFTWARE, INC.	
STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP / PCI CONFIGURATION LOAD BIOS DEFAULTS LOAD SETUP DEFAULTS	INTEGRATED PERIPHERALS SUPERVISOR PASSWORD USER PASSWORD IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING
Esc : Quit F10 : Save & Exit Setup	↑ ↓ → ← : Select Item (Shift) F2 : Change Color
Time, Date, Hard Disk Type...	

3.1.1 STANDARD CMOS SETUP

This setup page includes all the items in a standard, AT-compatible BIOS.

3.1.2 BIOS FEATURES SETUP

This setup page includes all the items of Award special enhanced features.

3.1.3 CHIPSET FEATURES SETUP

This setup page includes all the items of chipset special features.

3.1.4 POWER MANAGEMENT SETUP

This setup page includes all the items of Power Management.

3.1.5 PNP / PCI CONFIGURATION

This setup page includes all the items of PNP / PCI function.

3.1.6 LOAD BIOS DEFAULTS

The BIOS defaults have been set by the manufacturer and represent settings which provide the minimum requirements for your system to operate.

3.1.7 LOAD SETUP DEFAULTS

The chipset defaults are settings which provide for maximum system performance. While Award has designed the custom BIOS to maximize performance, the manufacturer has the right to change these defaults to meet their needs.

3.1.8 INTEGRATED PERIPHERALS

This section page includes all the items of IDE hard drive and Programmed Input / Output features.

3.1.9 SUPER / USER PASSWORD SETTING

Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup.

3.1.10 IDE HDD AUTO DETECTION

Automatically detect and configure hard disk parameters. The Award BIOS includes this ability in the event you are uncertain of your hard disk's parameters.

3.1.11 SAVE & EXIT SETUP & EXIT WITHOUT SAVING

Save CMOS value changes to CMOS and exit setup.

Abandon all CMOS value changes and exit setup.

3.2 Standard CMOS Setup

With the sub-menu(**Figure 3-2**), you can setup system date, system time, hard disk and floppy drive type, and display adapter type, and halt on mode. Please refer to your equipment specification when changing the setup.

Figure 3-2. Standard CMOS Setup Screen

ROM PCI/ISA BIOS (2A5LEV5B)
 STANDARD CMOS SETUP
 AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Fri, Mar 27 1998									
Time(hh:mm:ss) : 18:57:15									
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
Primary Master	: Auto	0	0	0	0	0	0	AUTO	
Primary Slave	: Auto	0	0	0	0	0	0	AUTO	
Secondary Master	: Auto	0	0	0	0	0	0	AUTO	
Secondary Slave	: Auto	0	0	0	0	0	0	AUTO	
Drive A	: 1.44M , 3.5in.								
Drive B	: None								
Video	: EGA / VGA								
Halt On	: All Errors								
					Base Memory : 640K				
					Extended Memory : 31744K				
					Other Memory : 384K				
					Total Memory : 32768K				
ESC : Quit			↑ ↓ → ← : Select Item			PU / PD / + / - : Modify			
F1 : Help			(Shift) F2 : Change Color						

3.2.1 Date

To assign the system date, the format is <day>, <date> <month> <year>.

day	The day, from Sun to Sat, determined by the BIOS and is display-only
date	The date, from 1 to 31 (or the maximum allowed in the month)
month	The month, Jan through Dec.
year	The year, from 1994 through 2079

3.2.2 Time

To assign the system time, the format is <hour> <minute> <second>. The time is calculated based on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00.

3.2.3 Hard Disks Setting

The BIOS supports Dual-Channel PIO and PCI Bus Master IDE ports. Each port supports one master and one slave hard drive. You can use <PageUp> or <PageDown> key to change hard drive type.

Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category. If your hard disk drive type is not matched or listed, you can use Type "User" to define your own drive type manually. If you select Type "User", you will need to know the information listed below. Enter the information directly from the keyboard and press <Enter>. This information should be included in the documentation from your hard disk vendor or the system manufacturer. Incorrect setting may result in boot up error or system hang.

We recommend that you select Type "AUTO" for all drives. The BIOS will auto-detect the hard disk drive and CD-ROM drive at the POST stage and showing the IDE for HDD & CD-ROM Drive.

If the controller of HDD interface is ESDI, the selection shall be "Type 1". If the controller of HDD interface is SCSI, the selection shall be "None". If a hard disk has not been installed select NONE and press <Enter>.

3.2.4 Floppy Drives A&B Setting

The category identifies the types of floppy disk drive A or drive B that have been installed in the computer.

None	No floppy drive installed
360K, 5.25 in	5-1/4 inch PC-type standard drive; 360 kilobyte capacity
1.2M, 5.25 in	5-1/4 inch AT-type high-density drive; 1.2 megabyte capacity
720K, 3.5 in	3-1/2 inch double-sided drive; 720 kilobyte capacity
1.44M, 3.5 in	3-1/2 inch double-sided drive; 1.44 megabyte capacity
2.88M, 3.5 in	3-1/2 inch double-sided drive; 2.88 megabyte capacity

3.2.5 Video Display Adapter Setting (EGA/VGA)

The category selects the type of video adapter used for the primary system monitor. Although secondary monitors are supported, you do not have to select the type in Setup.

EGA/VGA	Enhanced Graphics Adapter/Video Graphics Array. For EGA, VGA, SEGA, SVGA or PGA monitor adapters.
CGA 40	Color Graphics Adapter, power up in 40 column mode
CGA 80	Color Graphics Adapter, power up in 80 column mode
MONO	Monochrome adapter, includes high resolution monochrome adapters

3.2.6 Halt On (All Errors)

The category determines whether the computer will stop if an error is detected during power up.

No errors	Whenever the BIOS detects a non-fatal error the system will be stopped and you will be prompted.
All errors	The system boot will not be stopped for any error that may be detected.
All, But Keyboard	The system boot will not stop for a keyboard error; it will stop for all other errors.
All, But Diskette	The system boot will not stop for a disk error; it will stop for all other errors.
All, But Disk/Key	The system boot will not stop for a keyboard or disk error; it will stop for all other errors.

3.2.7 Base Memory

The POST will determine the amount of base (or conventional) memory installed in the system. The value of the base memory is typically 640K for systems with 640K or more memory installed on the motherboard.

3.2.8 Extended Memory

The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1MB in the CPU's memory address map.

3.2.9 Other Memory

This refers to the memory located in the 640K to 1024K address space. This is memory that can be used for different applications. DOS uses this area to load device drivers in an effort to keep as much base memory free for application programs. The BIOS is the most frequent user of this RAM area since this is where it shadows RAM

3.3 BIOS Features Setup

The sub-menu (**Figure 3.3**) includes all AWARD enhances functions. Correct setting can enhance boot up efficiency. You can assign system speed, boot-up sequence, keyboard operation, shadowing and system security.

Figure 3-3. BIOS FEATURES SETUP SCREEN

ROM PCI / ISA BIOS (2A5LEV5B)
 BIOS FEATURES SETUP
 AWARD SOFTWARE, INC.

Virus Warning	: Disabled	Video BIOS Shadow	: Enabled
CPU Internal Cache	: Enabled	C8000-CBFFF Shadow	: Disabled
External Cache	: Enabled	CC000-CFFFF Shadow	: Disabled
Quick Power On Self Test	: Enabled	D0000-D3FFF Shadow	: Disabled
Boot Sequence	: A ,C, SCSI	D4000-D7FFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	D8000-DBFFF Shadow	: Disabled
Boot Up Floppy Seek	: Disabled	DC000-DFFFF Shadow	: Disabled
Boot Up Numlock Status	: On		
Gate A20 Option	: Fast		
Memory Parity/ECC Check	: Enabled		
Typematic Rate Setting	: Disabled		
Typematic Rate (Chars/Sec)	: 6		
Typematic Delay (Msec)	: 250	ESC : Quit	↑ ↓ → ← : Select Item
Security Option	: Setup	F1 : Help	PU/PD/+/- : Modify
IDE Second Channel Control	: Enabled	F5 : Old Values (Shift) F2 : Color	
PS/2 mouse function Control	: Enabled	F6 : Load BIOS Defaults	
PCI/VGA Palette Snoop	: Disabled	F7 : Load Setup Defaults	
OS Select For DRAM>64MB	: Non-OS2		
Report No FDD For WIN95	: No		

3.3.1 Virus Warning (Disabled)

When enabled, the BIOS will monitor the boot sector and the partition table on the hard drive for any attempt to modify. If an attempt is detected, the BIOS will halt the system and the following error message will appear. Afterwards, if necessary, you will be able to run an anti-virus program to locate and remove the problem before any damage is done. Select "Disabled" if you are installing a new operating system.

! WARNING !

Disk boot sector is to be modified

Type "Y" to accept write or "N" to abort write

Award Software, Inc.

NOTE: Many disk diagnostic programs which attempt to access the boot sector table can cause the above warning message. If you will be running such a program, we recommend that you first disable Virus Protection beforehand.

3.3.2 CPU Internal/External Cache (Enabled)

These options are to enable or disable CPU Internal (L1) Cache, or External (L2) Cache.

3.3.3 Quick Power On Self Test (Enabled)

This category 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. Select

3.3.4 Boot Sequence (A,C,SCSI)

This option allows user to assign boot sequence of the system. Available options are A, C, D, E, F, CD-ROM, SCSI and LS120/ZIP.

3.3.5 Swap Floppy Drive (Disabled)

When enabled, physical drive A will be assigned to logical drive B, and physical drive B will be assigned to logical drive A.

3.3.6 Boot Up Floppy Seek (Disabled)

The system will detect and verify operation of the floppy drive type .

3.3.7 Boot Up Numlock Status (On)

The option allows the <NumLock> key to be activated after system boot up.

3.3.8 Gate A20 Option (Fast)

This entry allows you to select how the gate A20 is handled. The gate A20 is a device used to address memory above 1 Mbytes.

Normal	keyboard
Fast	chipset

3.3.9 Typematic Rate Setting (Disabled)

This determines if the typematic rate is to be used. When disabled, continually holding down a key on your keyboard will generate only one instance. In other words, the BIOS will only report that the key is down. When the typematic rate is enabled, the BIOS will report as before, but it will then wait a moment, and, if the key is still down, it will begin the report that the key has been depressed repeatedly. For example, you would use such a feature to accelerate cursor movements with the arrow keys.

3.3.10 Typematic Rate (6)

When the typematic rate is enabled, this option to set the rate at which a character keeps repeating while you hold down a key.

3.3.11 Typematic Delay (250)

When the typematic rate is enabled, this selection allows you to select the delay between when the key was first depressed and when the acceleration begins. Available options are "250", "500", "750", and "1000".

3.3.12 Security Option (Setup)

You can select whether the password is required every time the system boots or only when you enter the Setup. You can assign "Supervisor Password" and "User Password" in the main CMOS Setup Utility Screen.

3.3.13 PCI/VGA Palette Snoop (Disabled)

Enable this option to correct screen color shifts, when there is a combination of VGA cards, accelerator cards, or MPEG cards present.

3.3.14 OS Select for DRAM > 64MB (Non-OS2)

If you are using OS/2 operating system and installed memory is larger than 64MB. You need to have the setting in the enable mode.

3.3.15 Video BIOS Shadow (Enabled)

Video shadow copies BIOS code from slower ROM to faster RAM. BIOS can then execute from RAM.

3.3.16 C8000-CBFFF /DC000-DFFFF Shadow (Disabled)

Optional firmware will be copied from ROM to RAM. When this option is enabled. An example of such option ROM would be support of on-board SCSI.

3.4 Chipset Features Setup

This section allows you to configure the system based on the specific features of the installed chipset. This chipset manages bus speeds and access to system memory resources, such as DRAM and the 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 the best operating conditions for your system. The only time you might consider making any changes would be if you discovered that data was being lost while using your system.

Figure 3.4 CHIPSET FEATURES SETUP SCREEN

ROM PCI / ISA BIOS (2AS1EV5B) CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.			
Bank 0/1 DRAM Timing	: FP/EDO 70ns	On Chip USB	: Enabled
Bank 2/3 DRAM Timing	: SDRAM 10ns	USB Keyboard Support	: Disable
Bank 4/5 DRAM Timing	: FP/EDO 70ns		
SDRAM Cycle Length	: 3	Auto Detect DIMM/PCI Clk	: Enabled
DRAM Read Pipeline	: Enabled	Spread Spectrum Modulated	: Disabled
Cache Rd+CPU Wt Pipeline	: Enabled		
Cache Timing	: Fast		
Video BIOS Cacheable	: Enabled		
System BIOS Cacheable	: Enabled		
Memory Hole At 15Mb Addr	: Disabled		
AGP Aperture Size	: 64M		
		ESC : Quit ↑ ↓ → ← : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift) F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

3.4.1 Bank 0/1 & 2/3 & 4/5 DRAM Timing (FP/EDO 70ns)

This value in this field is auto set by the system board manufacturer, depending on whether the board has paged DRAMs or EDO (extended data output) or synchronous DRAMs.

3.4.2 SDRAM Cycle Length (3)

This field sets the CAS latency timing.

3.4.3 Cache Rd + CPU Wt Pipeline (Enabled)

This item allows you to enable/disable the cache timing.

3.4.4 Video BIOS Cacheable (Enabled)

Allows the video BIOS to be cached for faster video performance.

3.4.5 System BIOS Cacheable (Enabled)

Allows the system BIOS to be cached for faster system performance.

3.4.6 Memory Hole At 15Mb Addr (Disabled)

Enabling this feature reserves 15MB to 16MB memory address space to ISA expansion cards that specifically require this setting. This makes the memory from 15MB and up unavailable to the system. Expansion cards can only access memory up to 16MB.

3.4.7 AGP Aperture Size (64M)

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.

3.4.8 OnChip USB (Enabled)

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

3.4.9 USB Keyboard Support (Disabled)

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

3.5 Power Management Setup

The Power Management Setup allows you to configure your system to most effectively save energy while operating in a manner consistent with your own style of computer use.

Figure 3-5. POWER MANAGEMENT SETUP SCREEN

ROM PCI / ISA BIOS (2A5LEV5B)
POWER MANAGEMENT SETUP
AWARD SOFTWARE, INC.

Power Management	: User Define	Primary INTR	: ON
PM Control by APM	: Yes	IRQ3 (COM2)	: Primary
Video Off Option	: Suspend -> Off	IRQ4 (COM1)	: Primary
Video Off Method	: V/H SYNC+Blank	IRQ5 (LPT2)	: Primary
MODEM Use IRQ	: 3	IRQ6 (Floppy Disk)	: Primary
Soft-Off by PWRBNT	: Instant-Off	IRQ7 (LPT1)	: Primary
** PM Timers **		IRQ8 (RTC Alarm)	: Disabled
HDD Power Down	: Disabled	IRQ9 (IRQ2 Redir)	: Secondary
Doze Mode	: Disabled	IRQ10 (Reserved)	: Secondary
Suspend Mode	: Disabled	IRQ11 (Reserved)	: Secondary
** PM Events **		IRQ12 (PS/2 Mouse)	: Primary
VGA	: OFF	IRQ13 (Coproccessor)	: Primary
LPT & COM	: LPT/COM	IRQ14 (Hard Disk)	: Primary
HDD & FDD	: ON	IRQ15 (Reserved)	: Disabled
DMA/master	: OFF	ESC : Quit ↑ ↓ → ← : Select Item	
Modem Ring Resume	: Disabled	F1 : Help	PU/PD/+/- : Modify
RTC Alarm Resume	: Disabled	F5 : Old Values	(Shift) F2 : Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

3.5.1 Power Management (User Define)

This category allows you to select the type (or degree) of power saving and is directly related to the following modes:

1. Doze Mode
2. Suspend Mode
3. HDD Power Down

There are four selections for Power Management, three of which have fixed mode settings.

Disable	No power management. Disables all four modes
Mini Saving	Minimum power management. Doze Mode = 1 hr. Suspend Mode = 1 hr.
Max Saving	Maximum power management -- ONLY AVAILABLE FOR SL CPU'S. Doze Mode = 10 sec, Suspend Mode = 10 sec.
User Define	Allows you to set each mode individually. When not disabled, each of the ranges are from 10 sec to 1 hr.

3.5.2 PM Control by APM (Yes)

When enabled, an Advanced Power Management device will be activated to enhance the Max. Power Saving mode and stop the CPU internal clock. If Advance Power 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*.

3.5.3 Video Off Option (Suspend -> Off)

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

Always On	Monitor will remain on during power saving modes.
Suspend --> Off	Monitor blanked when the systems enters the Suspend mode.
All Modes --> Off	Monitor blanked when the system enters any power saving mode.

3.5.4 Video Off Method (V/H SYNC+Blank)

his determines the manner in which the monitor is blanked.

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.
Blank Screen	This option only writes blanks to the video buffer.
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.

3.5.5 MODEM Use IRQ (3)

This determines the IRQ in which the MODEM can use.

3.5.6 Soft-off by PWRBNT (Instant-Off)

When set to “Delay 4 Sec.”, the ATX switch can be used as a normal system power-off button when pressed for less than 4 seconds. “Instant-Off” disables the ATX switch function when the button is pressed under 4 seconds.

3.5.7 HDD Power Down (Disabled)

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

3.5.8 Doze Mode (Disabled)

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.

3.5.9 Suspend Mode (Disabled)

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

3.5.10 VGA (OFF)

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

3.5.11 LPT & COM (LPT/COM)

When set to LPT/COM, any event occurring at a COM(serial)/LPT (printer) port will awaken a system which has been powered down.

3.5.12 HDD & FDD (ON)

When set to ON, any event occurring at a hard or floppy drive port will awaken a system which has been powered down.

3.5.13 DMA/master (OFF)

When set to ON, any event occurring to the DMA controller will awaken a system which has been powered down.

3.5.14 Modem Ring Resume (Disabled)

When set to Enabled , any event occurring to the Modem Ring will awaken a system which has been powered down.

3.5.15 RTC Alarm Resume (Disabled)

When set to Enable, you could set the date (of month) and timer (hh:mm:ss), any event occurring at will awaken a system which has been powered down.

3.5.16 Date (of Month) Alarm, Time (hh:mm:ss) Alarm

Set these options to specify the RTC Alarm time on Date / Hour / Minute / Second.

3.5.17 Primary INTR (ON)

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

The following is a list of IRQ's, **I**nterrupt **R**e**Q**uests, 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.

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

IRQ3 (COM 2)

IRQ4 (COM 1)

IRQ5 (LPT 2)

IRQ6 (Floppy Disk)

IRQ7 (LPT 1)

IRQ8 (RTC Alarm)

IRQ9 (IRQ2 Redir)

IRQ10 (Reserved)
IRQ11 (Reserved)
IRQ12 (PS / 2 Mouse)
IRQ13 (Coprocesor)
IRQ14 (Hard Disk)
IRQ15 (Reserved)

3.6 PNP/PCI Configuration Setup

This section describes configuring the PCI bus system. PCI, or **P**ersonal **C**omputer **I**nterconnect, is a system which allows I/O devices to operate at speeds nearing the speed the CPU itself uses when communicating 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.

Figure 3.6 PNP/PCI CONFIGURATION SETUP

ROM PCI / ISA BIOS (2A5LEV5B)
PNP/PCI CONFIGURATION
AWARD SOFTWARE, INC.

PNP OS Installed	: Yes	CPU to PCI Write Buffer	: Enabled
Resources Controlled By	: Manual	PCI Dynamic Bursting	: Enabled
Reset Configuration Date	: Disabled	PCI Master 0 WS Write	: Enabled
ACPI I/O Device Node	: Disabled	PCI Delay Transaction	: Enabled
IRQ-3 assigned to	: Legacy ISA	PCI Master Read Prefetch	: Enabled
IRQ-4 assigned to	: Legacy ISA	PCI#2 Access #1 Retry	: Disabled
IRQ-5 assigned to	: PCI/ISA PnP	AGP Master 1 WS Write	: Enabled
IRQ-7 assigned to	: Legacy ISA	AGP Master 1 WS Read	: Disabled
IRQ-9 assigned to	: PCI/ISA PnP		
IRQ-10 assigned to	: PCI/ISA PnP	PCI IRQ Actived By	: Level
IRQ-11 assigned to	: PCI/ISA PnP	Assign IRQ For USB	: Disabled
IRQ-12 assigned to	: PCI/ISA PnP	Assign IRQ For VGA	: Enabled
IRQ-14 assigned to	: Legacy ISA		
IRQ-15 assigned to	: Legacy ISA		
DMA-0 assigned to	: PCI/ISA PnP	ESC : Quit	↑ ↓ → ← : Select Item
DMA-1 assigned to	: PCI/ISA PnP	F1 : Help	PU/PD/+/- : Modify
DMA-3 assigned to	: PCI/ISA PnP	F5 : Old Values	(Shift) F2 : Color
DMA-5 assigned to	: PCI/ISA PnP	F6 : Load BIOS Defaults	
DMA-6 assigned to	: PCI/ISA PnP	F7 : Load Setup Defaults	
DMA-7 assigned to	: PCI/ISA PnP		

3.6.1 PNP OS Installed (Yes)

Select Yes if the system operating environment is Plug-and-Play aware (e.g., Windows 95).

3.6.2 Resources Controlled By (Auto)

Default setting is "Auto". This setting allows the BIOS to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows®95. The user can select and configure IRQs under "Manual" mode.

3.6.3 Reset Configuration Date (Disabled)

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.

3.6.4 IRQ-xx assigned to

When resources are controlled manually, assign each system interrupt as one of the following types, depending on the type of device using the interrupt:

Legacy ISA Devices compliant with the original PC AT bus specification, requiring a specific interrupt (such as IRQ4 for serial port 1). PCI/ISA PnP Devices compliant with the Plug and Play standard, whether designed for PCI or ISA bus architecture.

If your ISA card is not PnP compatible and requires a special IRQ to support its function, set the selected IRQ to "Legacy ISA". This setting informs the PnP BIOS to reserve the selected IRQ for the installed legacy ISA card.

3.6.5 DMA-x assigned to

When resources are controlled manually, assign each system DMA channel as one of the following types, depending on the type of device using the interrupt:

Legacy ISA Devices compliant with the original PC AT bus specification, requiring a specific interrupt (such as IRQ4 for serial port 1). PCI/ISA PnP Devices compliant with the Plug and Play standard, whether designed for PCI or ISA bus architecture.

If your ISA card is not PnP compatible and requires a special DMA channel to support its function, set the selected DMA channel to "Legacy ISA". This setting informs the PnP BIOS to reserve the selected DMA channel for the installed legacy ISA card.

3.6.6 CPU to PCI Write Buffer (Enabled)

When enabled, up to four D words of data can be written to the PCI bus without interrupting the CPU. When disabled, a write buffer is not used and the CPU read cycle will not be completed until the PCI bus signals that it is ready to receive the data..

3.6.7 PCI Dynamic Bursting (Enabled)

When Enabled, data transfers on the PCI bus, where possible, make use of the high-performance PCI burst protocol, in which greater amounts of data

3.6.8 PCI Master 0 WS Write (Enabled)

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

3.6.9 PCI Delay Transaction (Enabled)

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.

3.6.10 PCI Master Read Prefetch (Enabled)

This item allows you enable/disable the PCI Master Read Prefetch.

3.6.11 PCI #2 Access #1 Retry (Disabled)

This item allows you enable/disable the PCI #2 Access #1 Retry.

3.6.12 AGP Master 1 WS Write (Enabled)

This implements a single delay when writing to the AGP Bus. By default, two-wait states are used by the system, allowing for greater stability.

3.6.13 AGP Master 1 WS Read (Disabled)

This implements a single delay when reading to the AGP Bus. By default, two-wait states are used by the system, allowing for greater stability.

3.6.14 PCI IRQ Activated By (Level)

This sets the method by which the PCI bus recognizes that an IRQ service is being requested by a device. Under all circumstances, you should retain the default configuration unless advised otherwise by your system's manufacturer.

3.7 Integrated Peripherals

You can control Input and Output functions from this manual.

Figure 3-7 Integrated Peripherals

ROM PCI / ISA BIOS (2A5LEV5B)
INTEGRATED PERIPHERALS
AWARD SOFTWARE, INC.

OnChip IDE First Channel	: Enabled	Onboard Parallel Port	: 378H/IRQ7
OnChip IDE Second Channel	: Enabled	Onboard Parallel Mode	: SPP
IDE Prefetch Mode	: Enabled		
IDE HDD Block Mode	: Enabled		
IDE Primary Master PIO	: Auto		
IDE Primary Slave PIO	: Auto		
IDE Secondary Master PIO	: Auto		
IDE Secondary Slave PIO	: Auto		
IDE Primary Master UDMA	: Auto		
IDE Primary Slave UDMA	: Auto		
IDE Secondary Master UDMA	: Auto		
IDE Secondary Slave UDMA	: Auto		
Init Display First	: PCI Slot		
Onboard FDC Controller	: Enabled	ESC : Quit	↑ ↓ → ← : Select Item
Onboard Serial Port 1	: 3F8/IRQ4	F1 : Help	PU/PD/+/- : Modify
Onboard Serial Port 2	: 2F8/IRQ3	F5 : Old Values (Shift)	F2 : Color
UART 2 Mode	: Standard	F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

3.7.1 OnChip IDE First/Second Channel (Enabled)

This chipset contains a PCI IDE interface with support for two IDE channels. Select Enabled to activate the first and/or second IDE interface. Select Disabled to deactivate this interface, if you install a first and/or second add-in IDE interface IDE interface.

3.7.2 IDE Prefetch Mode (Enabled)

Enable prefetching for IDE drive interfaces that support its faster drive accesses. If you are getting disk drive errors, change the setting to omit the drive interface where the errors occur. Depending on the configuration of your IDE subsystem, this field may not appear, and it does not appear when the Internal PCI/IDE field, above, is Disabled.

3.7.3 IDE HDD Block Mode (Enabled)

This item allows your hard disk controller to use the fast block mode to transfer data to and from your hard disk drive (HDD). Select Enabled only if your hard drives support block mode.

3.7.4 IDE Primary & Secondary Master/Slave PIO (Auto)

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. When under "Auto" mode, the system automatically set the best mode for each device.

3.7.5 IDE Primary & Secondary Master/Slave UDMA (Auto)

Ultra DMA/33 implementation is possible only if your IDE 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.

3.7.6 Init Display First (PCI Slot)

This function is support dual-display display card primary to PCI or AGP.

3.7.7 Onboard FDC Controller (Enabled)

This should be enabled if your system has a floppy disk drive (FDD) 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.

3.7.8 Onboard Serial Port 1 & 2

Select an address and corresponding interrupt for the first/second serial port. The default value for the first serial port is "3F8/IRQ4" and the second serial port is "2F8/IRQ3".

3.7.9 UART 2 Mode (Standard)

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

3.7.9 IR Function Duplex (Half)

This item allows you to select the IR function when you select the UART 2 Mode is ASKIR

3.7.10 Rx/D , Tx/D Active (Hi,Hi)

This item allows you to determine the active of Rx/D, Tx/D.

3.7.11 Onboard Parallel Port (378/IRQ7)

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

3.7.12 Onboard Parallel Mode (ECP/EPP)

Select an operating mode for the onboard parallel (printer) port. Normal EPP (Extended Parallel Port) ECP (Extended Capabilities Port) ECP+EPP PC AT parallel port Bi-directional port Fast, buffered port Fast, buffered, bi-directional port.

Select Normal unless you are certain your hardware and software both support EPP or ECP mode.

3.7.13 ECP Mode Use DMA (3)

Select a DMA channel for the parallel port for use during ECP mode.

3.7.14 Parallel Port EPP Type (EPP1.9)

This item allows you to determine the EPP Type of onboard I/O chip.

3.8 Load BIOS Defaults

This loads the standard BIOS default values. To select, highlight it and press the **Enter** key. Then press the **F10** and **Enter** keys to confirm. Otherwise, press the **N** key to cancel.

3.9 Load Setup Defaults

This feature loads the setup default values from BIOS default table. To select, highlight it and press the **Enter** key. Then press the **F10** and **Enter** keys to confirm. Otherwise, press the **N** key to cancel.

3.10 Supervisor/User Password

You can set either supervisor or user password, or both of them. The differences between are:

supervisor password : can enter and change the options of the setup menus.

user password : just can only enter but do not have the right to change the options of the setup menus.

When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

ENTER PASSWORD:

Type the password, up to eight characters in length, and press **<Enter>**. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press **<Enter>**. You may also press **<Esc>** to abort the selection and not enter a password.

To disable a password, just press **<Enter>** when you are prompted to enter the password. A message will confirm the password will be disabled. Once the password is disabled, the system will boot and you can enter Setup freely.

PASSWORD DISABLED.

When a password has been enabled, you will be prompted to enter it every time you try to enter Setup. This prevents an unauthorized person from changing any part of your system configuration.

Additionally, when a password is enabled, you can also require the BIOS to request a password every time your system is rebooted. This would prevent unauthorized use of your computer.

You determine when the password is required within the BIOS Features Setup Menu and its Security option. If the Security option is set to “System”, the password will be required both at boot and at entry to CMOS Setup Utility. If the setting is “Setup”, the system will only require the password you activate CMOS Setup Utility.

3.11 IDE HDD Auto Detection

If your system has an IDE hard drive, you can use this function to detect its parameters and enter them into the “Standard CMOS Setup” automatically.

This routine only detects one set of parameters. If your hard disk is formatted using different parameters than those detected, you have to enter the parameters manually. If the parameters listed do not match the ones used to format the disk, the information on that disk will not be accessible. If the auto-detected parameters displayed do not match those that are used for your drive, ignore them. Type N to reject the values and enter the correct ones manually from the Standard CMOS Setup screen.

3.12 Exit CMOS Setup Utility

Press the <F10> key to save the setup and exit. Press <ESC> key to exit without saving. Either saving or not saving modifications, screen will prompt user to confirm, and system will reboot on exit.

MAGIC-PRO MP-VIP4-A2 Quick Installation Chart

CPU Brand	CPU TYPE	CPU Voltage	VOL
AMD	K6-266	2.0V	2,3,4,5 short
AMD	K6-266~333	2.1V	1 short
AMD	K6/K6-2-266~333	2.2V	2 short
Cyrix	6x86MX	2.7V	1,2,3 short
Intel/Cyrix	P55C-MMX/6x86L	2.8V	4 short
AMD/Cyrix	K6-166/200, 6x86MX,M2	2.9V	1,4 short
AMD	K6-233	3.2V	3,4 short
Intel	P54C	3.3V	1,3,4 short
Intel	P54C	3.4V	2,3,4 short
AMD/Cyrix	K5/6x86	3.5V	1,2,3,4 short

BUS/CORE	RAT1	RAT2	RAT3
1.5x/3.5x	1-2	1-2	1-2
2.0x	2-3	1-2	2-3
2.5x	2-3	2-3	1-2
3.0x	1-2	2-3	1-2
4.0x	2-3	1-2	2-3
4.5x	2-3	2-3	2-3
5.0x	1-2	2-3	2-3
5.5x	1-2	1-2	2-3

Clock	MHz1	MHz2	MHz3
60MHz	2-3	2-3	2-3
66MHz	2-3	2-3	1-2
75MHz	2-3	1-2	2-3
83MHz	2-3	1-2	1-2
95MHz	1-2	1-2	2-3
100MHz	1-2	1-2	1-2

CPU	JAGP1	JAGP2
60-75MHz	2-3	2-3
75-83MHz	1-2	1-2
90-100MHz	2-3	1-2

CLK	CLK1	CLK2
AGP	2-3	1-2
CPU	1-2	2-3

DEFAULT

CLK1 2-3 , CLK2 1-2 , JTAG1 ALWAYS 2-3 , JVT A1 ALWAYS 1-2