

VMZV6 FLEX-ATX

Motherboard

User's Manual

Model : **VMZV6**
Manual Version : **English, version 1.0**
Release Date : **Aug 28th, 2000**

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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 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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Chapter 1

Overview

General Description

Thanks for purchasing **VMZV6 Socket 370 FLEX-ATX** motherboard. **VMZV6** is based on VIA chipset (North Bridge VT8601 & South Bridge VT82C686A). **VMZV6**'s chipset optimizes the latest Intel Celeron™ (PPGA), Celeron™ II & P!!! (FC-PGA), and VIA Cyrix III CPUs. It supports up to 256MB with 1 DIMM. New key features include support 4 USB. It integrates AC'97 Audio Codec and supports ULtra DMA 66 interface. Also the product designs Audio & Gameport pinheader on board.

This user's manual contains main information and features that show you how to use the **VMZV6** motherboard. Please take a moment to familiarize yourself with the design and organization of this manual.

Check Your Items

This **VMZV6** motherboard package contains the following items. Please inspect the package contents and confirm that everything is there. If anything is missing or damaged, call your vendor for instructions before operating.

The Package includes:

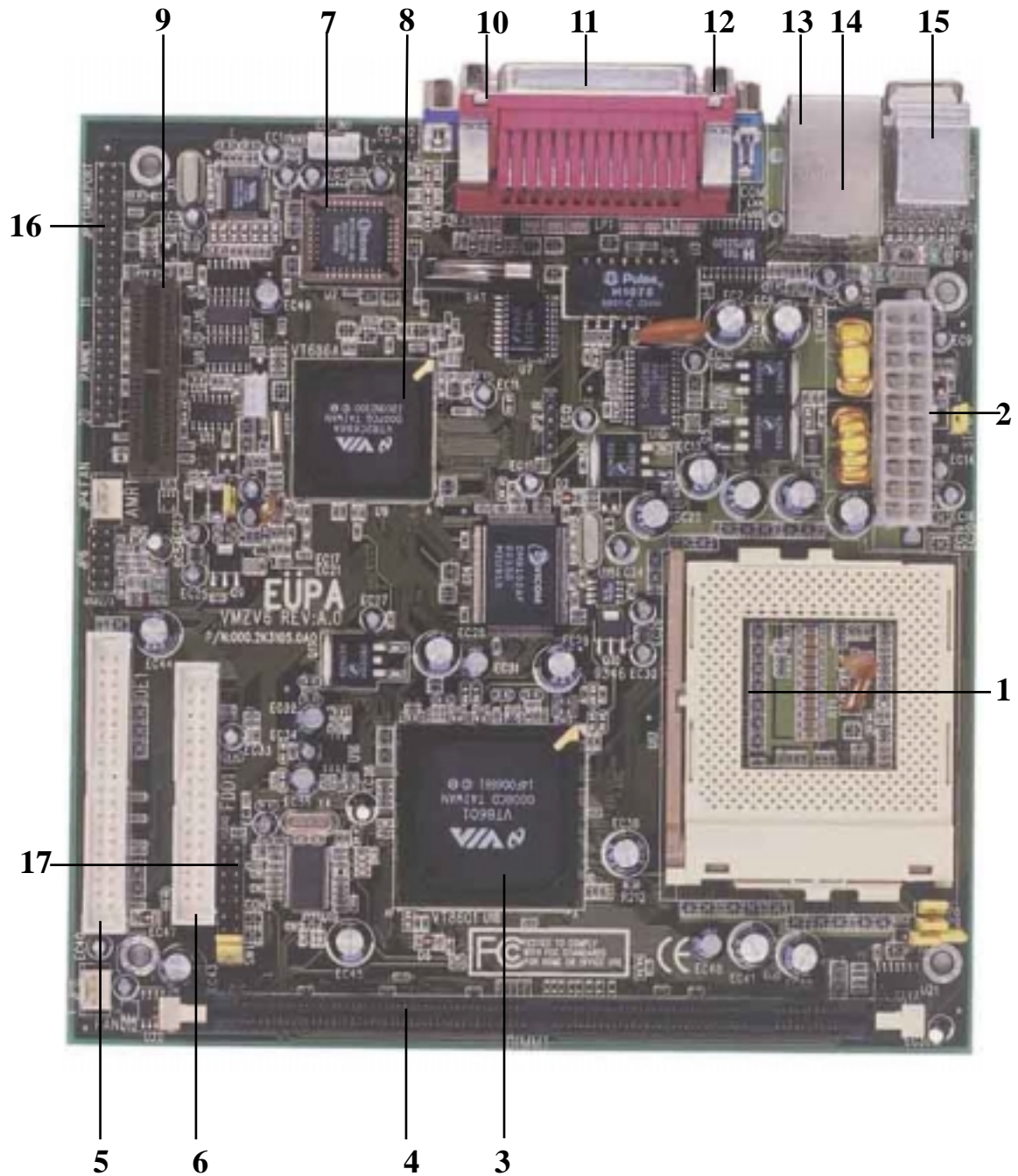
- ☞ **One VMZV6 motherboard**
- ☞ **One Floppy Interface Cable**
- ☞ **One IDE Interface Cable**
- ☞ **One Motherboard Resource CD**
- ☞ **One User's Manual**

VMZV6 Specifications

Form Factor	FLEX-ATX
Board Size	17.8cm x 18.3cm
CPU	Supports Socket 370 Intel P!!! & Celeron II(FC-PGA), Celeron(PPGA) and VIA Cyrix III Supports FSB 66/100/133MHz
System Memory	DIMM 168-pin x 1, SDRAM maximum 256MB
Chipset	VIA VT8601 -- North Bridge VIA VT82C686A -- South Bridge
Expansion Slot	1 AMR Slot
Sound Function	ON board AC'97 system built in VT82C686A, VIA 1611A Audio Codec
Graphic	2D/3D graphic accelerator Built in VT8601(North Bridge)
I/O Interface	2 USB Ports, 2 USB pinheader 1 GamePort Pinheader 1 Audio Pinheader 1 LAN Port (10M/100M auto detect) 1 PS/2 Mouse, 1 PS/2 Keyboard 1 parallel port, 1 VGA port 1 IrDA pinheader, 1 serial port
Parallel Port	One parallel port supports: -SPP-standard parallel port -EPP-enhanced parallel port -ECP-extended capabilities port
Floppy Interface	Support drivers inches/format with: -3.5 inches-720KB/1.44MB/2.88MB -5.25 inches-360KB/1.2MB
IDE Interface	One IDE Interface support 2 x IDE HDD or CDROM Support PIO Mode 2, ULTRA DMA/33 & ULTRA DMA/66
Fuse	Support Recoverable fuse for USB,KB & MOUSE
RTC and Battery	Built in South Bridge Lithium(CR-2032) battery
Power Connector	ATX
Other Key Feature	Support Suspend to RAM(STR) Wake on LAN Wake on Modem
BIOS	Award Plug & Play BIOS support APM, DMI and ACPI Supports virus warning Supports Flash / Upgrade BIOS functions
LED Indicator	System Power LED HDD activity LED

Overview

VMZV6 Components:

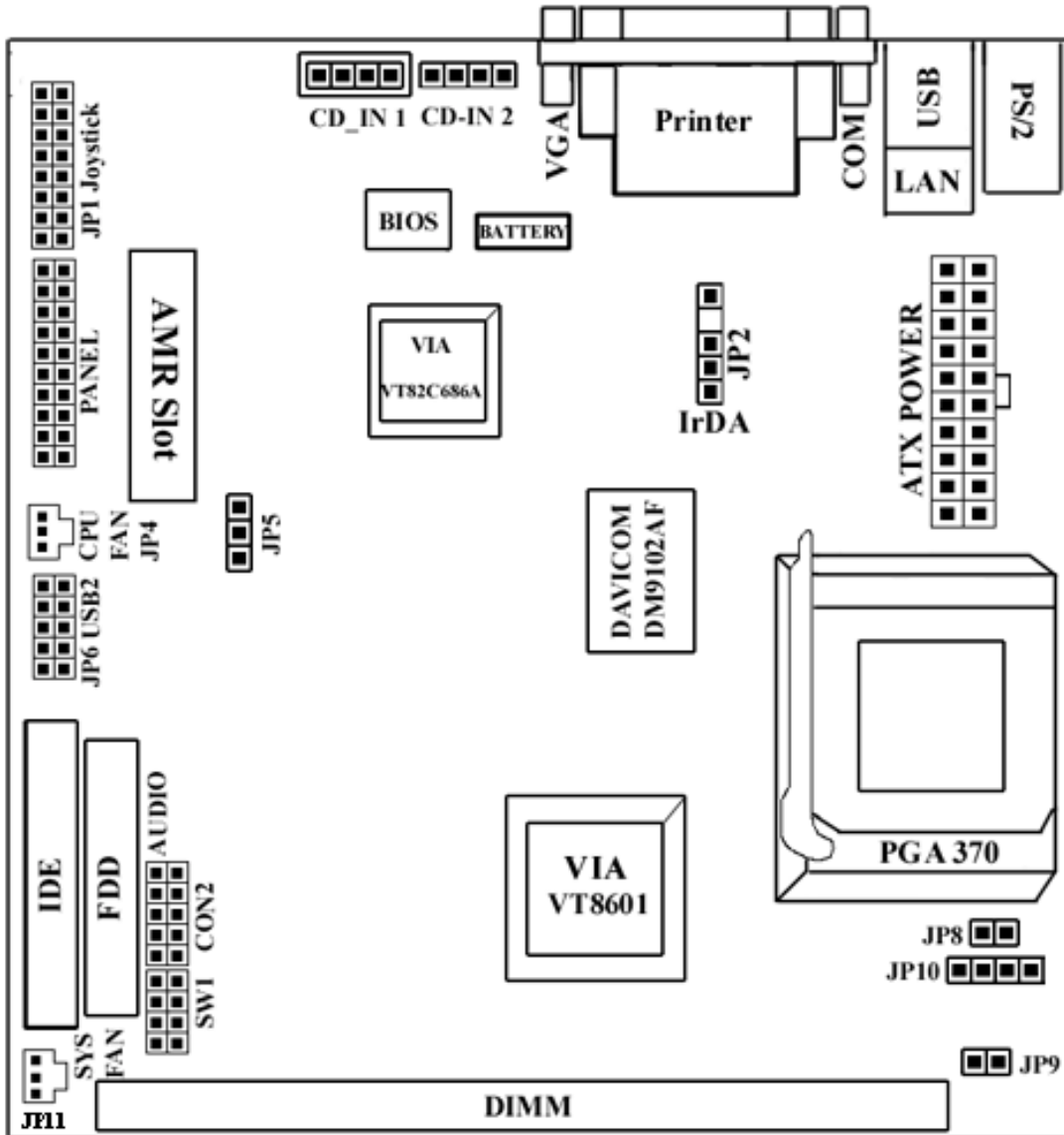


Please refer to next two pages about each component, and this manual will explain every important one at the following chapter.

1. Socket 370 processors socket
2. ATX Power Port
3. North Bridge VIA VT8601
4. 1 DIMM socket
5. IDEPort
6. Floppy Port
7. BIOS
8. South Bridge VIA VT82C686A
9. Audio Modem Riser Card (AMR) slot
10. VGA Port
11. Printer Port
12. COM Port
13. USB devices ports
14. LAN Port
15. PS/2 Keyboard (Purple) / Mouse (Green)
16. Gameport pinheader on board
17. Audio pinheader on board

Overview

Motherboard Layout



Jumpers

- | | |
|-----------------------|----------------------------|
| 1. JP5 | Clear CMOS |
| 2. JP8, JP9、JP10, SW1 | Select CPU Clock frequency |

Expansion Slots

- | | |
|---------|------------------------------|
| 1. DIMM | Support 168-pin DIMM Memory |
| 2. AMR | AMR Expansion Slot for MC'97 |

Connectors

- | | |
|-------------------|-----------------------------------|
| 1. PS/2 Connector | PS/2 Keyboard & Mouse Connector |
| 2. Floppy | Floppy Drive Connector |
| 3. IDE 1 | IDE Connector |
| 4. Printer | Printer (Parallel) Port Connector |
| 5. JP11 | System Fan Connector |
| 6. JP4 | CPU Fan Connector |
| 7. JP2 | IrDA Connector |
| 8. JP1 | Gameport pinheader |
| 9. JP6 | Universal Serial Bus pinheader |
| 10. ATX Power | ATX Power Connector |
| 11. CON 2 | Audio pinheader |
| 12. CD_IN | Audio CD_IN1 and CD_IN2 Connector |
| 13. WOM | Modem Wake Up Connector |
| 14. Panel | |
-
- | | |
|-----------|--------------------------|
| - PWR LED | ATX Power LED (3pins) |
| - SPEAKER | Chassis Speaker (4pins) |
| - HDD LED | HDD LED (2pins) |
| - RESET | Reset Switch (2pins) |
| - PWR ON | ATX Power Switch (2pins) |

Chapter 2

Hardware Installation

This chapter gives you a step-by-step procedure on how to install your system and set jumper. The motherboard has several user-adjustable jumpers on the board that allow you to configure your system to suit your requirements.

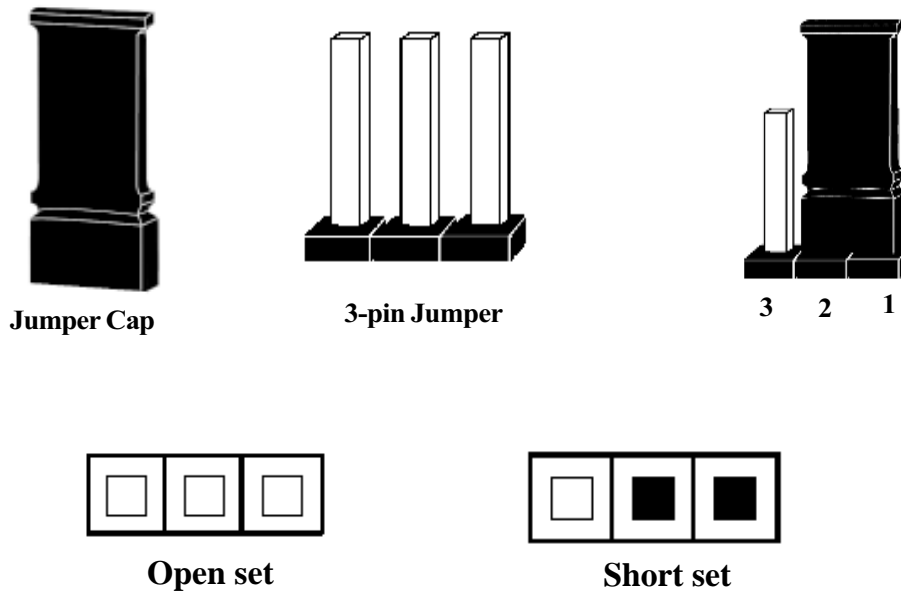
Cautions!! **Protecting Against Electrostatic Discharge**

Static electricity can harm delicate components inside your system. To prevent static electricity damage, discharge static electricity from your body before you touch any of your motherboard electronic components, such as the microprocessor. Observe the following precautions:

- Do not remove 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.

Set Jumpers:

Jumpers are used to select the operation modes for your system. Each jumper on the board has several metal pins with each pin representing a different function. A “1” is written besides pin 1 on jumpers with several pins. To set a jumper, a plastic cap containing metal contactor is placed over the jumper pins according to the required configuration. A jumper is said to be shorted when the plastic cap has been placed on two pins of it. The types of jumpers used in this manual are shown below:



Note:

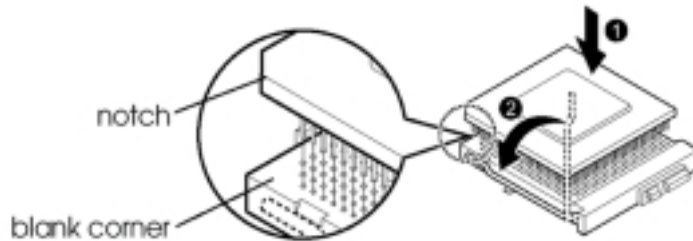
Users are not encouraged to change the jumper settings not listed in this manual. Changing the jumper settings improperly may adversely affect system performance.

Hardware Installation

Install CPU

The CPU module resides in the socket 370 on the motherboard. Please following the steps introduced below to complete the CPU installation.

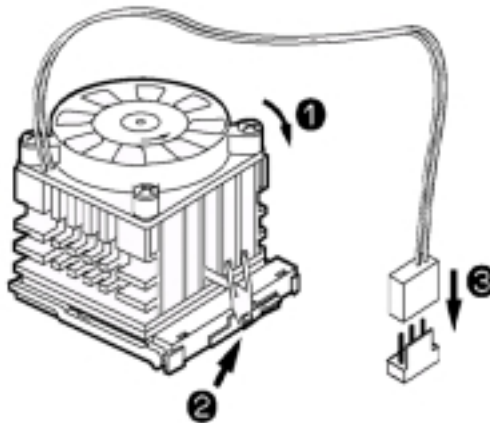
- 1) Locate the new processor you are installing over the socket so that the notched corner on the processor (pin 1) can be aligned with the blank corner on the socket. Then gently push the processor straight into the socket until its pins are completely inserted into the holes of the socket.



Caution:

If you install the processor chip in the wrong orientation, you may burn the chip and void your warranty. So you should install it careful deeply.

- 2) Press the ZIF handle back to close it.
- 3) Attach the heat sink to the processor socket and then connect a fan connector cable from the CPU fan to the CPU fan connector.



CPU Jumper Setting

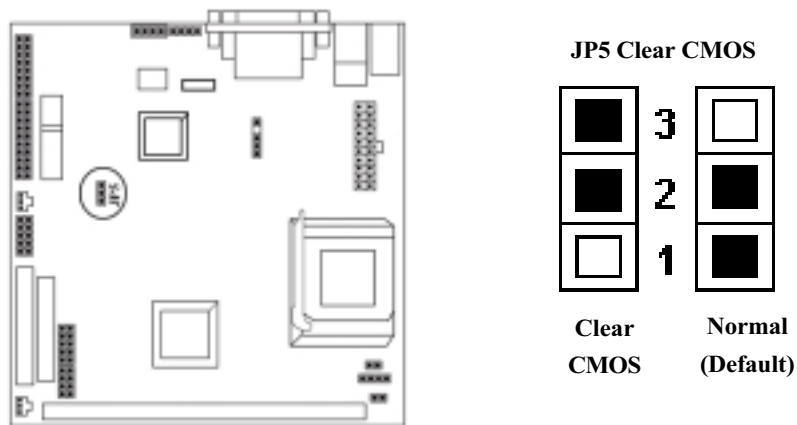
After installing the CPU, you must set the clock selection jumpers to match the frequency of the CPU. Find the jumpers labeled **JP8**、**JP9**、**JP10** and **SW1** set the jumpers according to the figure below and table for CPU Clock frequency. We recommend them to users.

Caution !!

we don't recommend user to try overclock, it may damage your CPU and result in a slower speed. Please think carefully before you use overclock function.

We introduce you how to clear CMOS, and enter into system BIOS, it could help you accomplish CPU setting in BIOS easily.

Clear CMOS: JP5

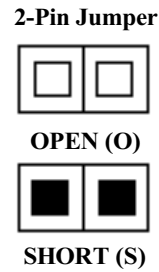
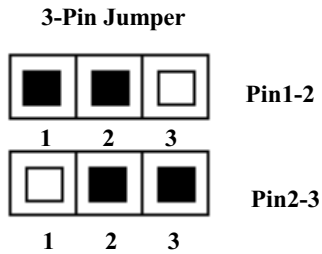
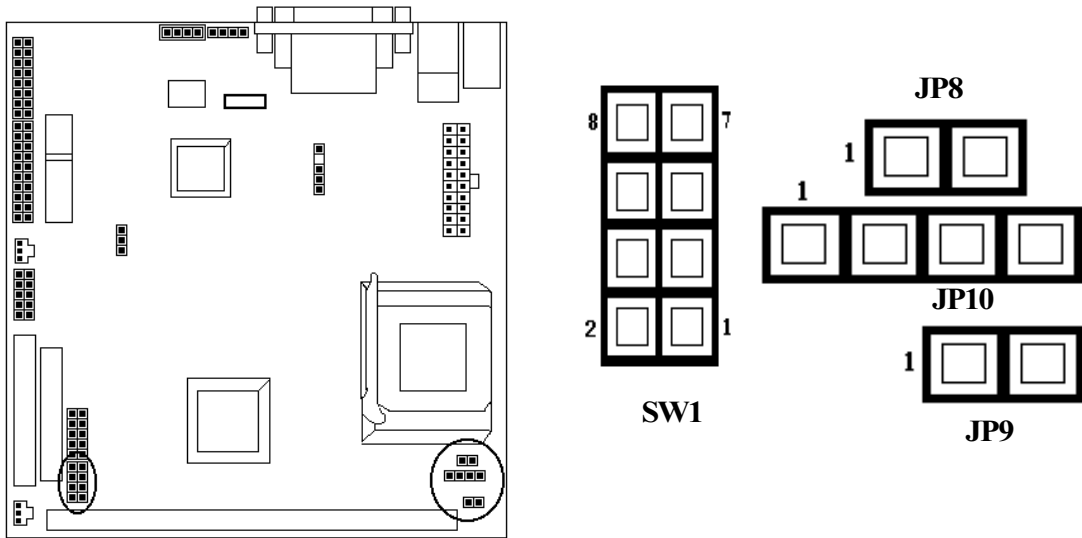


To Clear CMOS, please follow the steps below:

1. Power off the system and unplug the chassis AC power cord.
2. Short JP5 at pin 2-3 for few seconds.
3. Set JP5 back to its Normal position at pin 1-2
4. Plug the AC power cord to the chassis.
5. Power on the system and load the BIOS set up default.

Hardware Installation

Clock setting: JP8, JP9, JP10, SW1

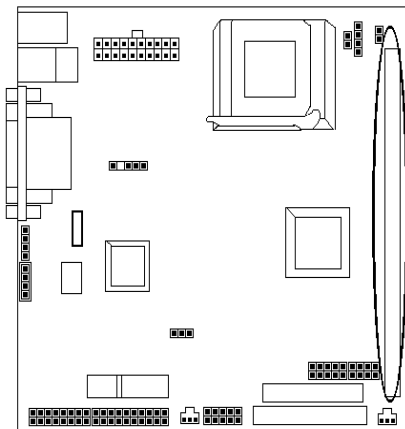


CPU (MHz)	PCICLK (MHz)	JP8	JP9	JP10		SW1			
				(1-2)	(3-4)	(1-2)	(3-4)	(5-6)	(7-8)
66	33	S	S	S	S	O	O	S	S
100	33	S	O	S	S	O	O	O	S
133	33	O	O	O	O	O	O	O	O

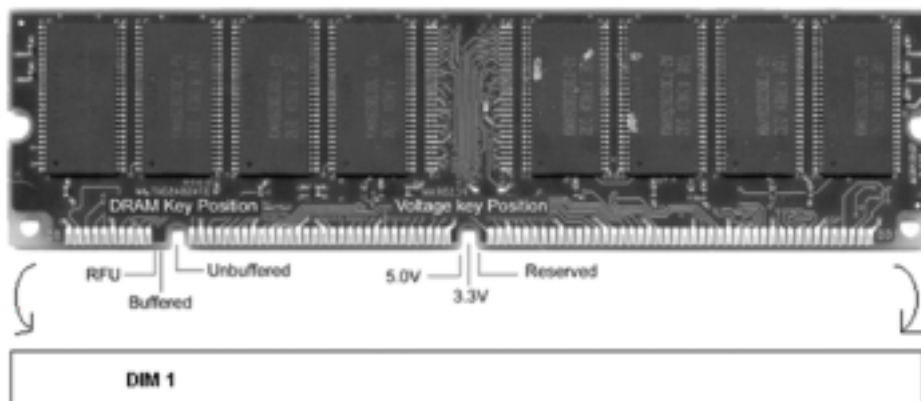
System Memory Installation

There are 1 piece 168-pin DIMM (Dual Inline Memory Module) sockets on the motherboard which support SDRAM and EDO DRAM memory.

- ◆ To ensure reliability, it is recommended to use PC 100 SDRAM 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 support: **8MB, 16MB, 32MB, 64MB, 128MB, 256MB.**



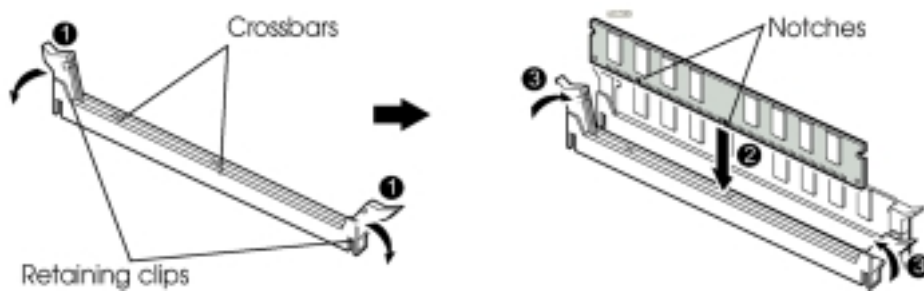
There is 1x168-pin DIMM slots (DIMM1) that allow you to install the system memory max up to 256 MB SDRAM.



Hardware Installation

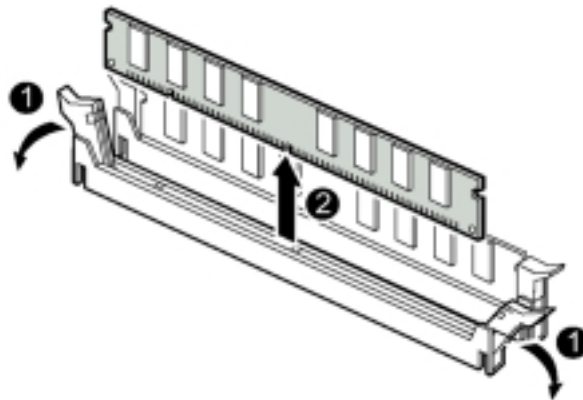
1. Install DIMM

- 1) After remove the cover, install the DIMM in the sockets marked with DIMM2, if the DIMM has been installed in the DIMM1 socket. Release the plastic retaining clips at each end of the socket by pressing the clips outward until they snap open.
- 2) Orient a DIMM to the socket so the two notches in the DIMM connector are aligned with the crossbars in the socket.
- 3) Press the DIMM straight into the socket until the retaining clips snap into place around the ends of the DIMM.



2 Removing a Memory Module

To remove memory modules, press the retaining clips outward simultaneously until the DIMM disengages from the socket and then carefully remove the DIMM from the socket.

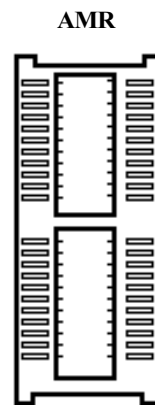
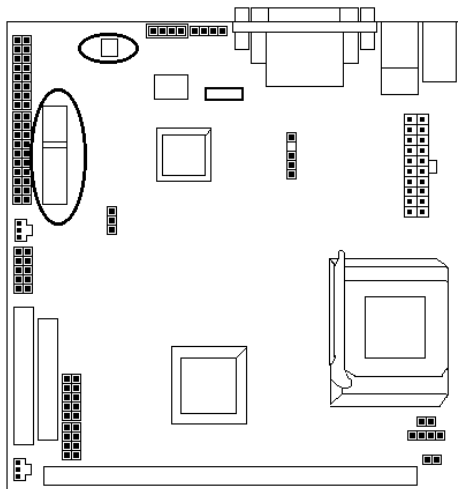


Install Expansion Cards

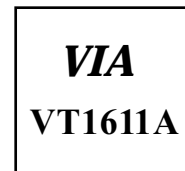
This section describes how to connect an expansion card to one of your system's expansion slots. Expansion cards are printed circuit boards that, when connected to the mainboard, increase the capabilities of your system. VMZV6 only include **one AMR slot.**

Caution:

Adjust any switches or jumpers on the expansion card, if necessary. When you handle the card, be careful not to touch any components on the circuit board or the gold-edged connector.



Sound Chip



Hardware Installation

Choose AMR & Sound functions

AMR slot and VIA VT1611A chip provide MC97 modem and AC97 functions. If you don't need these two functions, you may set through the BIOS "Advanced Chipset Features". (See the following table)

How to enter the BIOS?

While the BIOS is in control, the Setup program can be activated by pressing the key during the POST (Power On Self-Test).

Use Modem & AC97

Advanced Chipset Features

	SDRAM 8/10ns	Item Help
Bank 0/1 DRAM Timing	SDRAM 8/10ns	
SDRAM Cycle Length	3	
DRAM Clock	Host CLK-33M	Menu Level ▶
Memory Hole	Disabled	
P2C/C2P Concurrency	Enabled	
Fast R-W Turn Around	Disabled	
System BIOS Cacheable	Disabled	
Video RAM Cacheable	Disabled	
Frame Buffer Size	8M	
Onchip USB	Enabled	
USB Keyboard Support	Disabled	
Onchip Sound	Enabled	
Onchip Modem	Enabled	
CPU to PCI Write Buffer	Enabled	
PCI Dynamic Bursting	Enabled	
PCI Master 0 WS Write	Enabled	
PCI Delay Transaction	Enabled	
PCI#2 Access #1 Retry	Disabled	
Memory Parity / ECC Check	Disabled	

Enter: Select F5 : Previous Values +/-PU/PD: Value F10: Save
F6 : Fail-safe defaults Esc:Exit F1 : General Help F7 : Optimized Defaults

No Modem & AC97

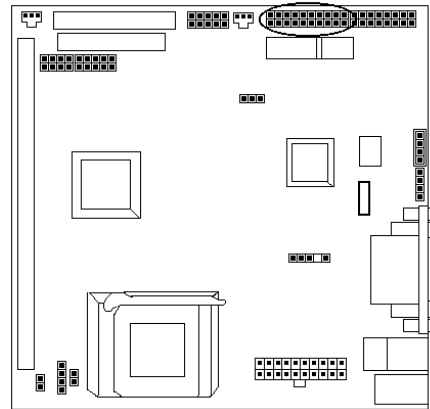
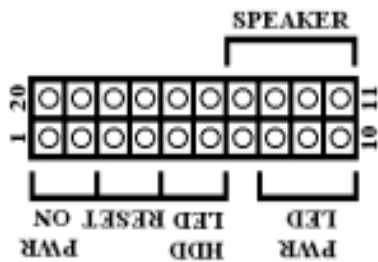
Advanced Chipset Features

	SDRAM 8/10ns	Item Help
Bank 0/1 DRAM Timing	SDRAM 8/10ns	
SDRAM Cycle Length	3	
DRAM Clock	Host CLK-33M	Menu Level ▶
Memory Hole	Disabled	
P2C/C2P Concurrency	Enabled	
Fast R-W Turn Around	Disabled	
System BIOS Cacheable	Disabled	
Video RAM Cacheable	Disabled	
Frame Buffer Size	8M	
Onchip USB	Enabled	
USB Keyboard Support	Disabled	
Onchip Sound	Disabled	
Onchip Modem	Disabled	
CPU to PCI Write Buffer	Enabled	
PCI Dynamic Bursting	Enabled	
PCI Master 0 WS Write	Enabled	
PCI Delay Transaction	Enabled	
PCI#2 Access #1 Retry	Disabled	
Memory Parity / ECC Check	Disabled	

Enter: Select F5 : Previous Values +/-PU/PD: Value F10: Save
F6 : Fail-safe defaults Esc:Exit F1 : General Help F7 : Optimized Defaults

Connectors:

1. Pannel Connector



-POWER LED

-SPEAKER

-HDD LED

-RESET

-PWR ON

ATX Power LED (3-pins)

Chassis Speaker (4-pins)

HDD LED (2-pins)

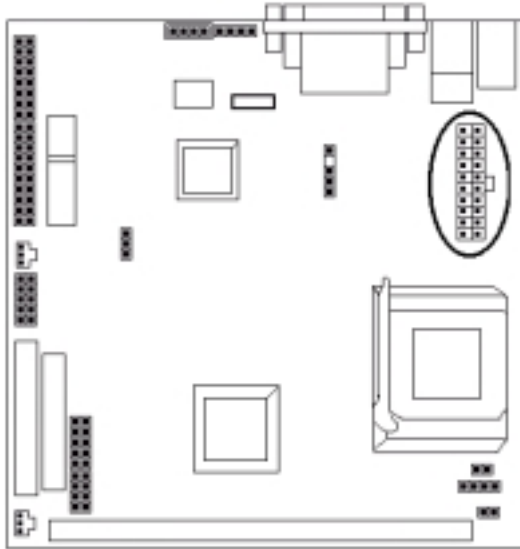
Reset Switch (2-pins)

ATX Power Switch (2-pins)

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 cable.

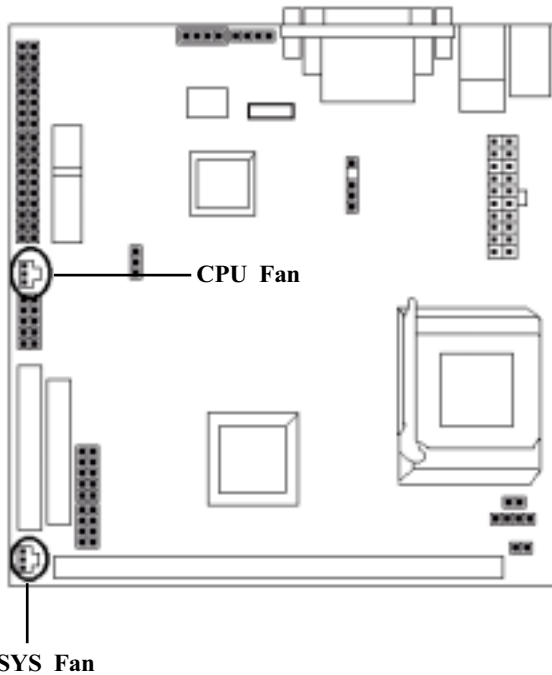
Hardware Installation



+12V	10	+5V
5V_STB	9	+5V
PWR_GOOD	8	-5V
GND	7	GND
+5V	6	GND
GND	5	GND
+5V	4	-PWR_ON
GND	3	GND
+3.3V	2	-12V
+3.3V	1	+3.3V
	11	12
	13	14
	15	16
	17	18
	19	20

3. Fan Connector

Connect the CPU and System fan cables to the fan connectors shown below. The fan connectors are marked as: **SYS FAN** & **CPU FAN** on the motherboard.



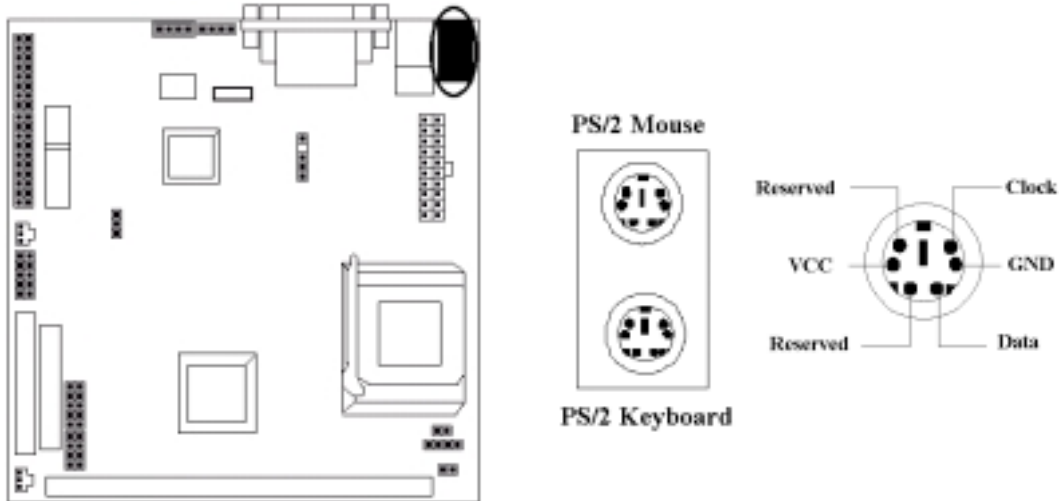
FAN CONNECTOR

CPU FAN
SYS FAN



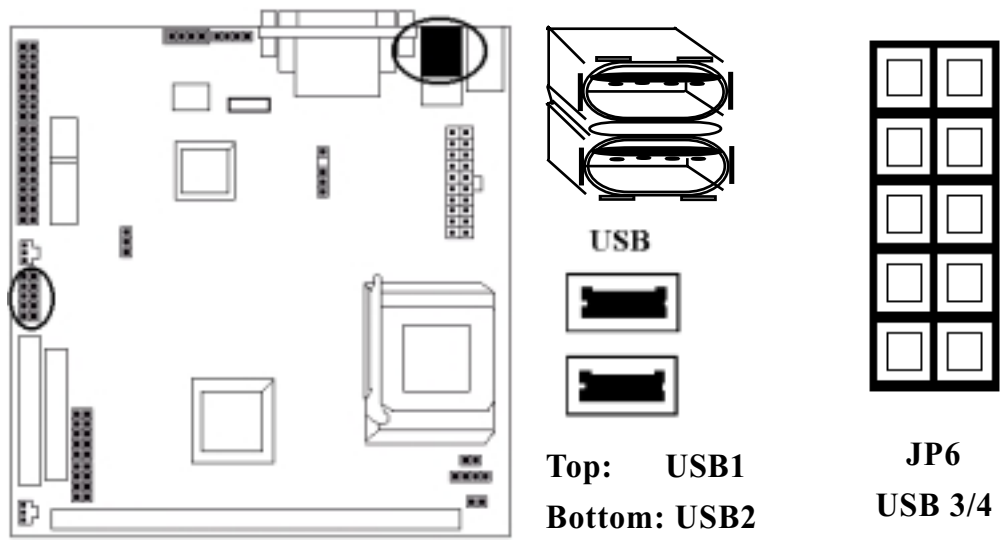
4. PS/2 Mouse and Keyboard Connectors

Connect the **PS/2 Mouse** and **Keyboard** to the onboard 6-pin Mini-Din connector shown as below.



5. USB Connector: USB 3/4 JP6

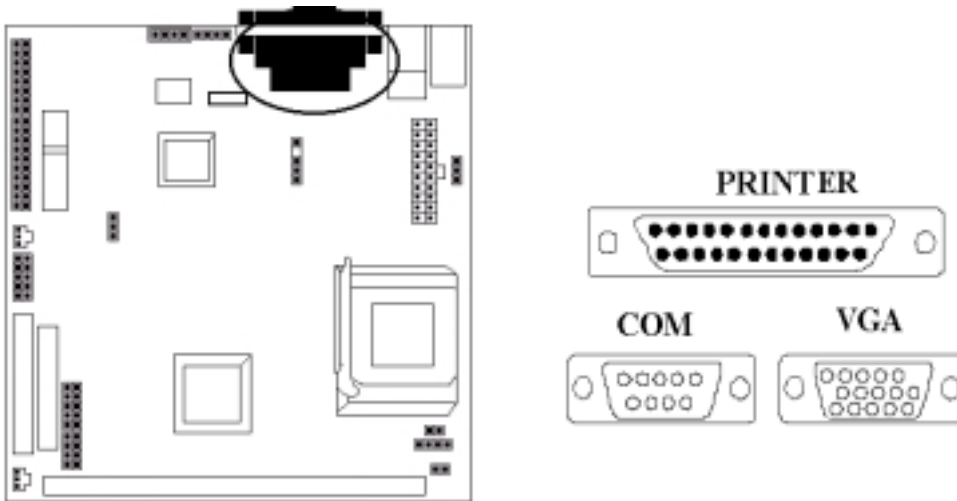
Connect your **USB** device(s) to the onboard USB connector shown as below.



Hardware Installation

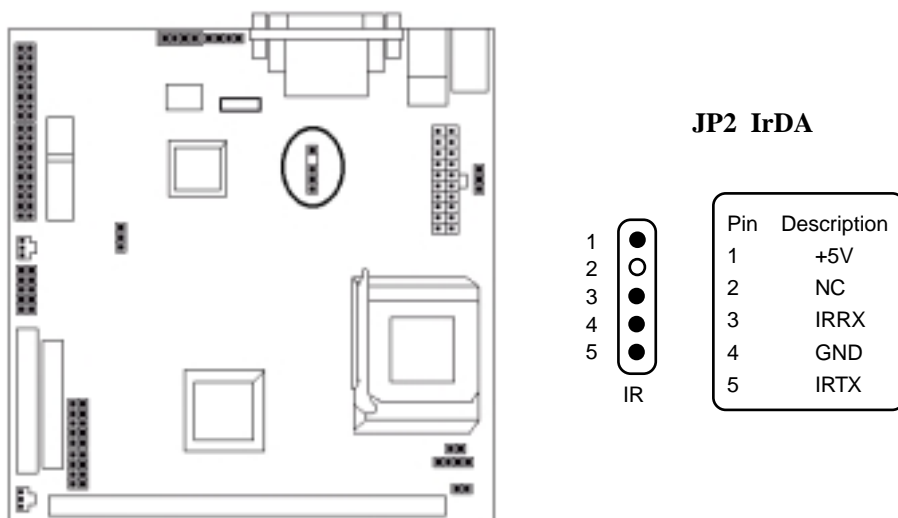
6. Serial Device COM, VGA and Printer Connectors

Connector your serial device(s) to the onboard serial connectors marked as **COM**. Connect the 15-pins VGA Monitor Output marked as **VGA** to your system monitor or other VGA compatible devices. Connect your local **Printer** to the onboard 25-pin printer connector marked shown as below.



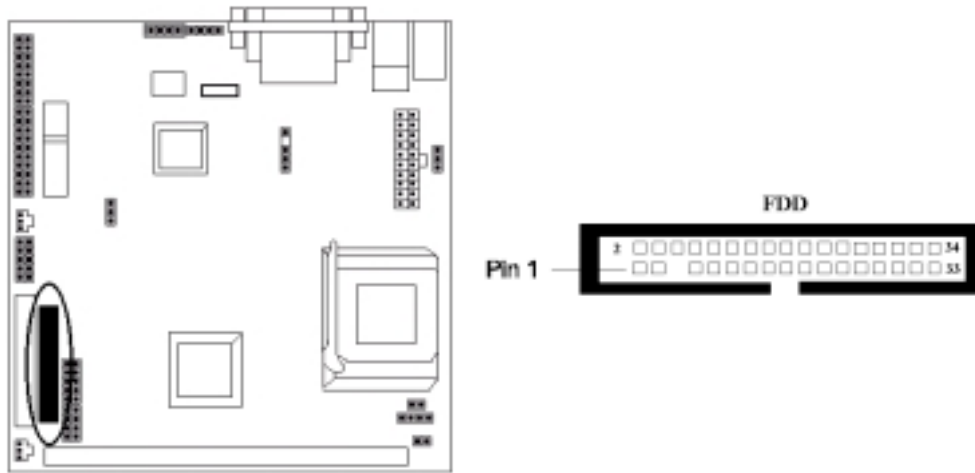
7. IrDA Connector

Connect your IR devices to the onboard **IrDA** connectors shown as below.



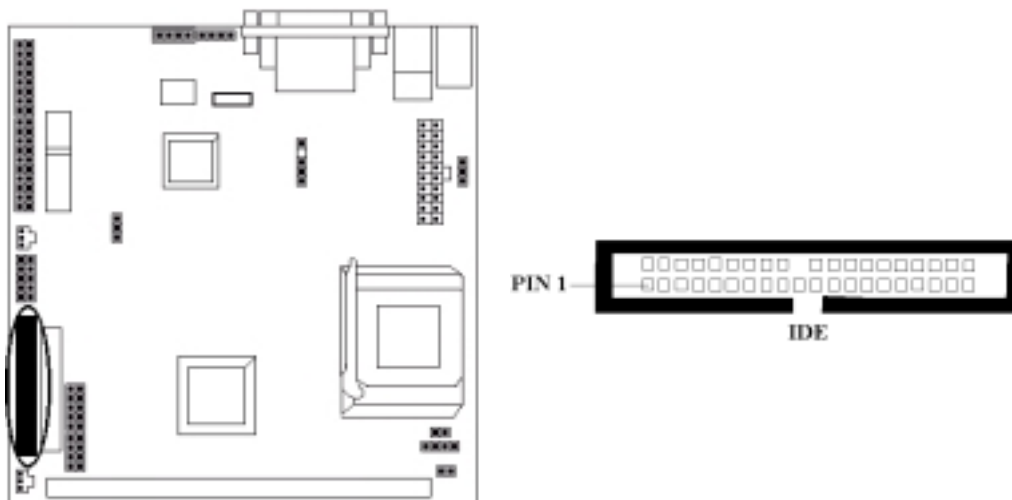
8. Floppy Drive Connector

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



9. IDE Hard Disk Connector

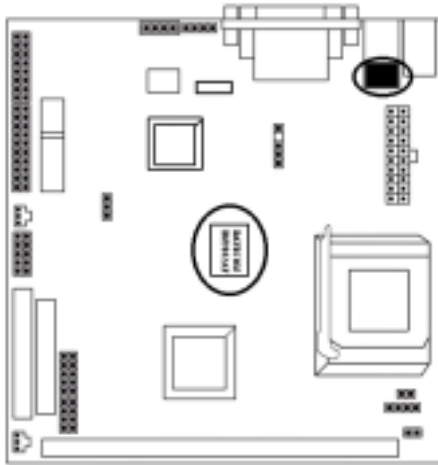
Connect your IDE devices to the onboard 40-pin IDE connectors marked as **IDE**.



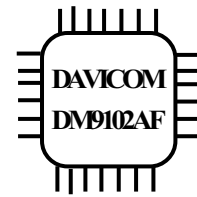
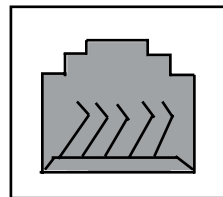
Hardware Installation

10. LAN Port

Connect your LAN port to the onboard LAN connector shown as below. (**Wake on LAN function should be supported Network Card.**)

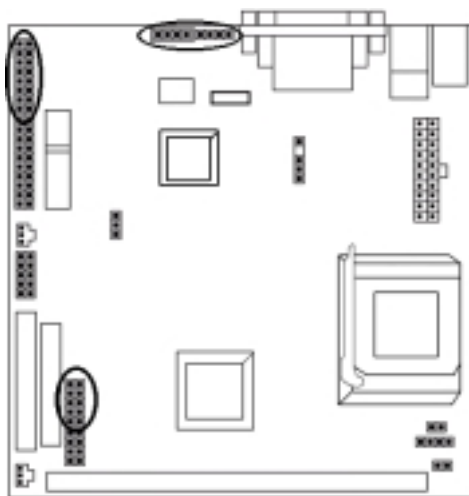


LAN Connector



11. Game / Audio pinheaders and CD_IN Connectors

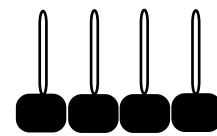
The 10-pin **Audio** and the 12-pin **JP1 GAMEPORT** pinheaders allow you to plug audio and joystick connector in. The CD connector onboard marked as **CD-IN** is for CD-ROM connection.



**JP1
GAMEPORT**



AUDIO



**CD-IN 1
CD-IN 2**

Chapter 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.

CMOS 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 - Copyright (C) 1984-2000 Award Software

■ Standard CMOS Features	■ Frequency/Voltage Control
■ Advanced BIOS Features	Load Fail-Safe Defaults
■ Advanced Chipset Features	Load Optimized Defaults
■ Integrated Peripherals	Set Supervisor Password
■ Power Management Setup	Set User Password
■ PnP / PCI Configuration	Save & Exit Setup
■ PC Health Status	Exit Without Saving
Esc : Quit	
F10 : Save & Exit Setup	
Abandon all datas	

CMOS Setup Utility

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.

F1 : Help.

F10 : Save CMOS Changes & Exit.

ENTER : To select or enter a submenu.

ESC : To quit the BIOS Setup Utility.

Standard CMOS Setup

The items in Standard CMOS Setup Menu are divided in 10 categories. Each catalogue includes one or more than one setup items. Use the keys to highlight the item and then use the / <PgUp> / <PgDn> keys to select the value you want in each item.

**CMOS Setup Utility - Copyright (C) 1984-2000 Award Software
Standard CMOS Features**

Date (mm:dd:yy):	Tue, Aug 29 2000	Item Help
Time (hh:mm:ss):	16:19:20	
▶▶ IDE Primary Master		Menu Level ▶▶
▶▶ IDE Primary Slave		
Drive A	1.44M. 3.5in	Change the day, month, year and century
Drive B	None	
Video	EGA / VGA	
Halt On	All, But Keyboard	
Base Memory	640K	
Extended Memory	65472K	
Total Memory	1024K	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6: Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

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 → IDE Primary Master**
- **Hard Disks → IDE Primary Slave**

CMOS Setup Utility

Access Mode

Choose the access mode for this hard disk.

The optional are: Normal, LBA, Large, **Auto (Default)**.

Capacity

Disk drive capacity (approximated). Note that this size is usually slightly greater than the size of the formatted disk given by a disk checking program.

The optional are: Auto display your drive size.

Drive A / Drive B

Select the floppy drive type installed in your system. The available options for Drive A and Drive B.

The optional are: 360K 5.25 in, 1.2M 5.25 in, 720K 3.5 in, 1.44M 3.5 in(**Drive A default**), 2.88M 3.5 in and NONE (**Drive B default**).

Video

Select the video display card type installed in your system.

The optional are: **EGA/VGA (Default)**, CGA 40, CGA 80 and Mono.

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.

The optional are: All Errors, No Errors, **All But Keyboard (Default)**, All But Diskette and All But Disk / Key

Advanced BIOS Features

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Advanced BIOS Features

Virus Warning	Disabled	<p style="text-align: center;">Item Help</p> <p>Menu Level »</p> <p>Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep.</p>
CPU Internal Cache	Enabled	
External Cache	Enabled	
CPU L2 Cache ECC Checking	Enabled	
Processor Number Feature	Enabled	
Quick Power On Self Test	Disabled	
First Boot Device	Floppy	
Second Boot Device	HDD-0	
Third Boot device	LS/ZIP	
Boot other device	Enabled	
Swap Floppy Drive	Disabled	
Boot Up Floppy Seek	Enabled	
Boot Up Numlock Status	On	
Gate A20 Option	Normal	
Typematic Rate Setting	Disabled	
* Typematic Rate (Chars/Sec)	6	
* Typematic Delay (Msec)	250	
Security Option	Setup	
OS Select For DRAM > 64MB	Non-OS2	
Video BIOS shadow	Enabled	
C8000-CBFFF shadow	Disabled	
CC000-CFFFF shadow	Disabled	
D0000-D3FFF shadow	Disabled	
D4000-D7FFF shadow	Disabled	
D8000-DBFFF shadow	Disabled	
DC000-DFFFF shadow	Disabled	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

Virus Warning

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.

The optional are: Enabled, **Disabled (Default)**

CPU Internal / External cache

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

The optional are: **Enabled (Default)**, Disabled

CPU L2 Cache ECC Checking

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

The optional are: **Enabled (Default)**, Disabled

CMOS Setup Utility

Processor Number Feature

This item allows you to enable / disable Processor Number.

The optional are: **Enabled (Default)**, Disabled

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.

The optional are: Enabled, **Disabled (Default)**

First / Second / Third Boot Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items.

The optional are: **Floppy (First Default)**, **HDD-0(Second Default)**, **LS /ZIP (Third Default)**, HDD-1/2/3, ZIP 100, SCSI, CDROM, LAN, Disabled.

Boot Other Device

Select your Boot Device Priority.

The optional are: **Enabled (Default)**, Disabled

Swap Floppy Drive

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

The optional are: Enabled, **Disabled (Default)**

Boot Up Floppy Seek

Seeks disk drives during boot up.

The optional are: **Enabled (Default)**, Disabled

Boot Up NumLock Status

Selects power on state for NumLock.

The optional are: Off, **On (Default)**

Gate A20 Option

Normal-a pin in the keyboard controller controls Gate A20.

Fast- lets chipset control Gate A20.

The optional are: **Normal(Default)**, Fast

Typematic Rate Setting

Keystrokes repeat at a rate determined by the keyboard controller, when enabled, the typematic rate and typematic delay can be selected.

The optional are: Enabled, **Disabled(Default)**

Typematic Rate (Chars/Sec)

Sets the number of times a second to repeat a key stroke when you hold the key down.

The optional are: **6 (Default)**, 8, 10, 12, 15, 20, 24, 30

Typematic Delay (Msec)

Select the delay time after the key is held down before it begins to repeat the key strokes.

The optional are: **250 (Default)**, 750, 1000

Security option

Select whether the password is required every time 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.

The optional are: **Setup (Default)**, System

OS Select for DRAM > 64MB

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

The optional are: **Non-OS/2 (Default)**, OS/2

CMOS Setup Utility

Video BIOS Shadow

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.

The optional are: **Enabled (Default)**, Disabled

C8000-CBFFF to DC000-DFFFF Shadow

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.

The optional are: SDRAM 10ns(Default), SDRAM 8ns, **Normal, Medium, Fast, Turbo**

Advanced Chipset Features

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, and external cache. 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.

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Advanced Chipset Features

Bank 0/1 DRAM Timing	SDRAM 8/10ns	Item Help
SDRAM Cycle Length	3	
DRAM Clock	Host CLK	Menu Level ▶
Memory Hole	Disabled	
P2C/C2P Concurrency	Enabled	
Fast R-W Turn Around	Disabled	
System BIOS Cacheable	Disabled	
Video RAM Cacheable	Disabled	
Frame Buffer Size	8M	
Onchip USB	Enabled	
USB Keyboard Support	Disabled	
Onchip Sound	Enabled	
Onchip Modem	Enabled	
CPU to PCI Write Buffer	Enabled	
PCI Dynamic Bursting	Disabled	
PCI Master 0 WS Write	Enabled	
PCI Delay Transaction	Disabled	
PCI#2 Access #1 Retry	Disabled	
Memory Parity / ECC Check	Disabled	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

Bank 0/1 DRAM Timing

This item allows you to select the value in this field, depending on whether the board has paged DRAMs or EDO (extended data output) DRAMs.

The optional are: **SDRAM 8/10ns(Default)**, Normal, Medium, Fast, Turbo

SDRAM Cycle Length

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing. Do not reset this field from the default value specified by the system designer.

The optional are: **3(Default)**, 2

CMOS Setup Utility

DRAM Clock

This item allows you to control the DRAM speed.

The optional are: **Host CLK(Default)**, Host-33M, Host+33M

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.

The optional are: 15M-16M, **Disabled(Default)**

P2C/C2P Concurrency

This allows you to enable/disable the PCI to CPU, CPU to PCI concurrency.

The optional are: **Enabled(Default)**, Disabled

Fast R-W Turn Around

This item controls the DRAM timing. It allows you to enable/disable the fast read / write turn around.

The optional are: Enabled, **Disabled(Default)**

System BIOS Cacheable

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.

The optional are: Enabled, **Disabled(Default)**

Video RAM Cacheable

Selecting *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.

The optional are: Enabled, **Disabled(Default)**

Frame Buffer Size

Select the size of Frame Buffer

The optional are: **8M(Default)**, 4M, NA

On Chip USB

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

The optional are: **Enabled (Default)**, Disabled

USB Keyboard Support

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

The optional are: **Disabled (Default)**, Enabled

Onchip Sound

This item allows you to control the onboard AC97 audio.

The optional are: **Auto (Default)**, Disabled

Onchip Modem

This item allows you to control the onboard MC97 modem.

The optional are: **Auto (Default)**, Disabled

CPU to PCI Write Buffer

When this field is *Enabled*, writes from the CPU to the PCI bus are buffered, to compensate for the speed difference between the CPU to 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.

The optional are: **Enabled (Default)**, Disabled

CMOS Setup Utility

PCI Dynamic Bursting

When Enabled, every write transaction goes to the write buffer. Burstable transactions then burst on the PCI bus and nonburstable transactions do not.

The optional are: **Disabled (Default)**, Enabled

PCI Master 0 WS Write

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

The optional are: **Enabled (Default)**, Disabled

PCI Delay Transaction

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.

The optional are: Enabled, **Disabled(Default)**

PCI #2 Access #1 Retry

When disabled, PCI#2 will not be disconnected until access finishes (default).

When enable, PCI#2 will be disconnected if max retries are attempted without success.

The optional are: **Disabled (Default)**, Enabled

Memory Parity / ECC Check

Enable adds a parity check to the boot-up memory tests. Select Enabled only if the system DRAM Contains parity.

The optional are: **Disabled(Default)**, Enabled

Integrated Peripherals

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Integrated Peripherals

OnChip IDE Channel 10	Enabled	Item Help
IDE Prefetch Mode	Enabled	
Primary Master PIO	Auto	Menu Level »
Primary Slave PIO	Auto	
Primary Master UDMA	Auto	
Primary Slave UDMA	Auto	
Init Display First	PCI Slot	
IDE HDD Block Mode	Enabled	
Onboard FDD Controller	Enabled	
Onboard Serial Port1	Auto	
IR function Duplex	Half	
TX, RX inverting enable	No, Yes	
Onboard Parallel Port	378/IRQ7	
Onboard Parallel Port Mode	Normal	
ECP Mode Use DMA	3	
Parallel Port EPP Type	EPP1.9	
Onboard Legacy Audio	Enabled	
Sound Blaster	Disabled	
SB I/O Base Address	220H	
SB IRQ Select	IRQ 5	
SB DMA Select	DMA 1	
MPU-401	Disabled	
MPU-401 I/O Address	330-333H	
Game Port (200-207)	Enabled	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

On-Chip IDE Channel 0 / 1

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

The optional are: **Enabled (Default)**, Disabled

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.

The optional are: **Enabled (Default)**, Disabled

CMOS Setup Utility

Primary Master / Slave PIO

The two IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the two 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.

The optional are: **Auto (Default)**, Mode 0, Mode 1, Mode 2, Mode3, Mode 4

Primary Master / Slave UDMA

Ultra DMA/66 implementation is possible only if your IDE hard drive supports it and the operating environment includes a DMA driver (Windows 98 OSR2 or a third-party IDE bus master driver). If your hard drive and your system software both support Ultra DMA/66, select Auto to enable BIOS support.

The optional are: Auto(**Default**), Disabled

Init Display First

This item allows you to decide to active whether PCI Slot of VGA card or AGP first.

The optional are: **PCI Slot (Default)**, AGP

IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sector read/write. If your IDE hard drive supports block mode (most new drives do), select Enabled for automatic detection of the optimal number of block read/writes per-sector the drive can support.

The optional are: **Enabled (Default)**, Disabled

Onboard FDD Controller

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

The optional are: Enabled (**Default**), Disabled

Onboard Serial Port 1

Select an address and corresponding interrupt for the first and second serial ports.

The optional are: **Auto (Default)**, Disabled, 3F8 / IRQ4, 2F8 / IRQ3, 3E8 / IRQ4, 2E8 / IRQ3

IR Function Duplex

This item allows you to select the IR half/full duplex function.

The optional are: Half (**Default**), Full

TX, RX inverting enable

This item allow you to enable the TX, RX inverting which depends on different H/W requirement. This field is not recommended to change its default setting for avoiding any error in your system

The optional are: No & No, **No & Yes(Default)**, Yes & No, Yes & Yes.

Onboard Parallel Port

Select a logical LPT port address and corresponding interrupt for the physical parallel port.

The optional are: **378/IRQ7(Default)**, 278/IRQ5, 3BC/IRQ7, Disabled

Onboard Parallel Mode

Select an operating mode for the onboard parallel (printer) port. Select *Normal*, *Compatible*, or *SPP* unless you are certain your hardware and software both support one of the other available modes.

The optional are: **Normal (Default)**, EPP, ECP, ECP/EPP

CMOS Setup Utility

ECP Mode Use DMA

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

The optional are: **3 (Default)**, 1

Parallel Port EPP Type

Select EPP port type 1.7 or 1.9.

The optional are: **EPP 1.9(Default)**, EPP 1.7

Onboard Legacy Audio

This field controls the onboard legacy audio.

- Sound Blaster : **Disabled(Default)**
- SB I/O Base Address : **220H(Default)**
- SB IRQ Select : **IRQ 5(Default)**
- SB DMA Select : **DMA 1(Default)**
- MPU-401 : **Disabled(Default)**
- MPU-401 I/O Address : **330-333H(Default)**
- Game Port (200-207H) : **Enabled(Default)**

Power Management Setup

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

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Power Management Setup

ACPI function	Enabled	Item Help
> Power Managemen	Press Enter	
ACPI Suspend Type	S1(POS)	Menu Level ▶
PM Control by APM	Yes	
Video Off Option	Suspen -- Off	
Video Off Method	V/H SYNC+ Blank	
MODEM Use IRQ	3	
Soft-Off by PWR-BTTN	Delay 4 Sec	
> Wake up event	Press Enter	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

ACPI Function

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

The optional are: **Enabled(Default)**, Disabled

Power Management

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Power Management

Power Management	User Define	Item Help
HDD Power Down	Disabled	
Doze Mode	Disabled	Menu Level ▶
Suspend Mode	Disabled	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

CMOS Setup Utility

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

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

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

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

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.

The optional are: **Disable (Default)**, 1 Min--15 Min

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.

The optional are: **Disable(Default)**, 1Min, 2Min, 4Min, 6Min, 8Min, 10Min, 20Min, 30Min, 40Min, 1Hour

Suspend Mode

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

The optional are: **Disable(Default)**, 1Min, 2Min, 4Min, 6Min, 8Min, 10Min, 20Min, 30Min, 40Min, 1Hour

ACPI Suspend Type

This item lets you select a method of ACPI suspend.

The optional are: **S1(POS) (Default)**, S3(STR)

PM Control by APM

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.

The optional are: No, **Yes(Default)**

Video Off Option

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.

The optional are: Always On, **Suspend --off (Default)**, All Modes -- off

Video Off Method

This 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.

The optional are: **V/H SYNC + Blank (Default)**, Blank Screen, DPMS Support

CMOS Setup Utility

MODEM User IRQ

This determines the IRQ in which the MODEM can use.

The optional are: NA, **3(Default)**, 4, 5, 7, 9, 10, 11

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.”

The optional are: Delay 4 sec, **Instant-Off (Default)**

Wake Up Events(PM events)

PM events are I/O events whose occurrence can prevent the system from entering a power saving mode or can awaken the system from such a mode. In effect, the system remains alert for anything which occurs to a device which is configured as *On*, even when the system is in a power down mode.

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Wake Up Events

VGA	Off	Item Help
LPT & COM	LPT/COM	
HDD & FDD	On	Menu Level ▶
PCI Master	Off	
Modem Ring Resume	Disabled	
RTC Alarm Resume	Disabled	
* Date (Of Month)	0	
* Resume Time (hh:mm:ss)	0 4 11	
IRQs Activity Monitoring	Press Enter	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

VGA

When *On*, you can set the VGA awakens the system.

The optional are: **Off (Default)**, On

LPT & COM

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

The optional are: NONE, LPT, COM, **LPT/COM (Default)**

HDD & FDD

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

The optional are: **On(Default)**, Off

PCI Master

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

The optional are: **Off(Default)**, On

Modem Ring Resume

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.

The optional are: Enabled, **Disabled(Default)**

RTC Alarm Resume

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

The optional are: Enabled, **Disabled(Default)**

CMOS Setup Utility

IRQs Activity Monitoring

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.

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

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IRQs Activity Monitoring

Primary INTR	On	Item Help
IRQ3 (COM2)	Enabled	
IRQ4 (COM1)	Enabled	Menu Level ▶▶
IRQ5 (LPT 2)	Enabled	
IRQ6 (Floppy disk)	Enabled	
IRQ7 (LPT 1)	Enabled	
IRQ8 (RTC Alarm)	Disabled	
IRQ9 (IRQ2 Redir)	Disabled	
IRQ10 (Reserved)	Disabled	
IRQ11 (Reserved)	Disabled	
IRQ12 (PS/2 Mouse)	Enabled	
IRQ13 (Coprocessor)	Disabled	
IRQ14 (Hard Disk)	Enabled	
IRQ15 (Reserved)	Disabled	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

PnP / PCI Configurations

This section describes configuring the PCI bus system. PCI- Peripheral Component 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.

**CMOS Setup Utility - Copyright (C) 1984-2000 Award Software
PnP / PCI Configuration**

PNP OS Installed	No	Item Help
Reset Configuration Data	Disabled	
Reources Controlled By	Auto(ESCD)	Menu Level »
* IRQ Reources	Press Enter	Select Yes if you are using a
* DMA Reources	Press Enter	Plug and Play capable
		operating system. Select No
		if you need the BIOS to
		configure non-boot devices
PCI/VGA Palette Snoop	Disabled	
Assign IRQ For VGA	Enabled	
Assign IRQ For USB	Enabled	
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

PNP OS Installed

This item allows you to determine PnP OS is installed or not.

The optional: Yes, **No (Default)**

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 cannot boot.

The optional are: Enabled, **Disabled(Default)**

CMOS Setup Utility

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 absolutely nothing unless you are using a Plug and Play operating system such as Windows®98.

The optional are: **Auto(ESCD) (Default)**, Manual

PCI/VGA Palette Snoop

Leave this field at Disabled.

The optional are: Enabled, **Disabled(Default)**

Assign IRQ For VGA & USB

Enable/Disable to assign IRQ for VGA & USB.

The optional are: **Enabled(Default)**, Disabled

PC Health Status

This section helps you to get more information about your system including CPU temperature, FAN speed and voltages. It is recommended that you contact with your motherboard supplier to get proper value about your setting of the CPU temperature.

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PC Health Status

Current CPU Temp. Current System Temp. Vcore 2.5V 3.3V 5V 12V	Item Help Menu Level ▶
Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults	

Current CPU Temp.

Show you the current CPU temperature.

Current System Temp.

Show you the current system temperature.

Vcore

Show you the current system voltage.

CMOS Setup Utility

Frequency / Voltage Control

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Frequency / Voltage Control

Auto Detect DIMM / PCI Clk	Enabled	Item Help Menu Level »
Spread Spectrum.	Disabled	
CPU Host Clock (CPU / PCI)	Default	
Move Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

Auto Detect DIMM / PCI Clk

To reduce the occurrence of electromagnetic interference (EMI), the BIOS detects the presence or absence of components in DIMM and PCI slots and turns off system clock generator pulses to empty slots.

The optional are: **Enabled(Default)**, Disabled

Spread Spectrum

when the system clock generator pulses, the extreme values of the pulse generate excess EMI. Enabling pulse spectrum spread modulation changes the extreme values from spikes to flat curves, thus reducing EMI. This benefit may in some cases be outweighed by problems with timing-critical devices, such as a clock-sensitive SCSI device.

The optional are: Enabled, **Disabled(Default)**

CPU Host Clock (CPU/PCI)

Setup CPU Host Clock (CPU / PCI).

The optional are: **Default(Default)**, 66/33, 75/37, 83/41, 100/33, 103/34, 112/37, 124/41, 133/33, 140/35, 150/37

Caution: we don't recommend user to try overclock, it may damage your CPU and result in a slower speed. Please think carefully before you use overclock function.

Load Fail-Safe Defaults

This option allows you load Fail-Safe Defaults settings. To load setup default, press <Y> key to confirm the operation when you see the below display.

CMOS Setup Utility - Copyright (C) 1984-2000 Award Software

■ Standard CMOS Features	■ Frequency / Voltage Control
■ Advanced BIOS Features	Load Fail-Safe Defaults
■ Advanced Chipset Features	Load Optimized Defaults
■ Inte	Load Fail - Safe Defaults (Y / N)? N
■ Pow	
■ PnP / PCI Configuration	Save & Exit Setup
■ PC Health Status	Exit Without Saving
Esc : Quit # \$! " : Select Item	
F10 : Save & Exit Setup	
Abandon all datas	

Load Optimized Defaults

This option allows you load Optimized Defaults settings to optimize your system. To load optimized default, press <Y> key to confirm the operation when you see the below display.

CMOS Setup Utility - Copyright (C) 1984-2000 Award Software

■ Standard CMOS Features	■ Frequency / Voltage Control
■ Advanced BIOS Features	Load Fail-Safe Defaults
■ Advanced Chipset Features	Load Optimized Defaults
■ Inte	Load Optimized Defaults (Y / N)?
■ Pow	
■ PnP / PCI Configuration	Save & Exit Setup
■ PC Health Status	Exit Without Saving
Esc : Quit # \$! " : Select Item	
F10 : Save & Exit Setup	
Abandon all datas	

Set Supervisor / User Password

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 main difference between Supervisor Password and User Password is the privilege. Because Supervisor Password allows you to modify all CMOS setup but User password only some of them.

Their steps all as follows:

1. Highlight the item Set Supervisor Password / Set User Password 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.

[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 JP5 at Pin 2-3 for a few seconds to clear CMOS.
 - iii. Set the JP5 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.

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.

Exit Without Saving

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

CMOS Setup Utility

How to Update Your Motherboard's BIOS?

1. Create a bootable system floppy disk by typing [FORMAT A:/S] from the DOS prompt without creating "**AUTOEXEC.BAT**" and "**CONFIG.SYS**" files.
2. Copy AWDFLASH.EXE to the just created boot disk.
3. Download an updated **EUPA BIOS** file from the Internet and save to the disk you created earlier.(EUPA web site: *www.eupacomputer.com*)
4. Boot from the disk you created earlier.
5. At the "A:\>" prompt, type AWDFLASH and then press <Enter>. The screen will displays the following window:



6. Type the new BIOS filename and the path, for example, A:\VXA.BIN and then press <Enter>. Then prompt: Do you want to save BIOS?(Y/N) Press <Y> to save current BIOS to file.Type the file name to save, then press <Enter>.Prompt: Now backup system BIOS TO file!

7. After the backup, prompt: Are you sure to program?(Y/N) Press <Y> to start to program the new BIOS information into the flash ROM. When the programming is finished. You may press <F1> to reset the PC or <F10> to Exit the AWDFLASH.

WARNING!!!

If you encounter problems while updating the new BIOS, DO NOT turn off your system since this might prevent your system from booting up. Just repeat the process, and if the problem still persists, update the original BIOS file you saved to disk above. If the Flash Memory Writer utility was not able to successfully update a complete BIOS file, your system may not be able to boot up. If this happens, your system will need service.

NOTE!!!

The previous screen displays are provided as example only and may not reflect the screen contents displayed on your system.

Chapter 4

Software Utility

The support software for this motherboard is supplied in a CD. 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.

Note !!!

For update driver, please visit EUPA web site:

www.eupacomputer.com.

Installing Interface:

After you insert CD driver, it runs automatically and appear the interface as below:



Installing Driver Location:

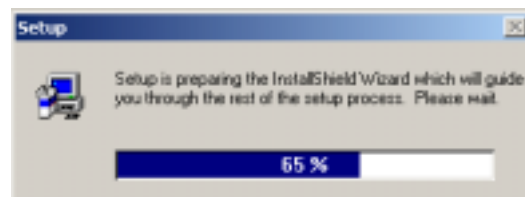
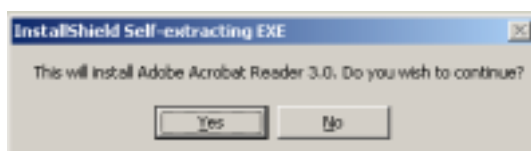
To using software, you'd better find chipset driver location: **IDE / VIA**, then install contents step by step.

VMZV6 integrates AC'97 audio system, providing perfect audio quality to users. (AC'97 system is the very popular with audio system in the world. According to the most of users' requirement, we design the function in the motherboard to increase system practicability.)

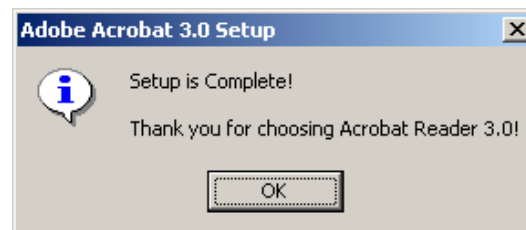
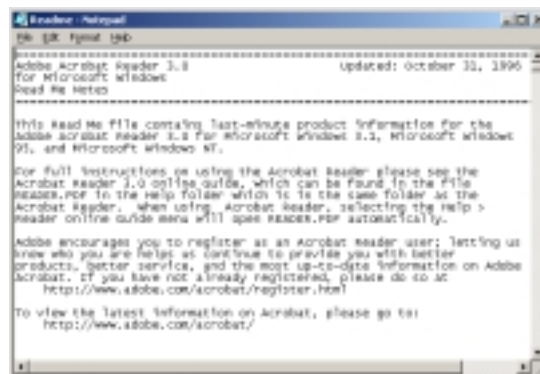
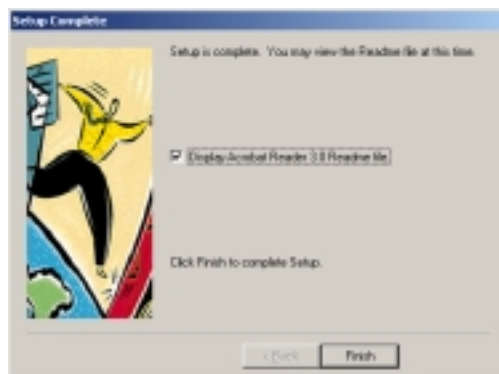
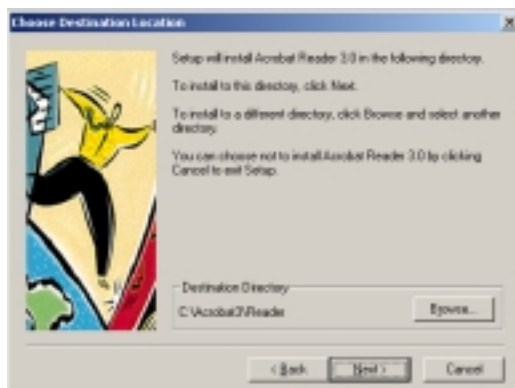
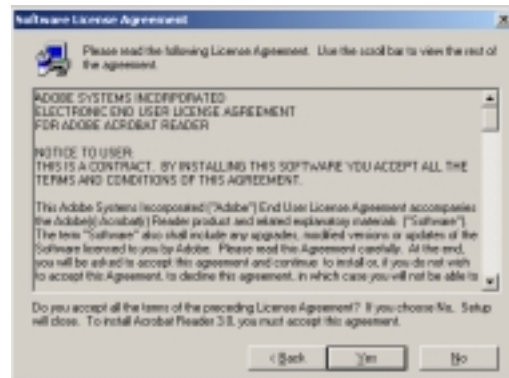
Also the product integrates audio codec function as well, to use the function, we provides its location: **|audio|via1611|setup.exe**

Installing ADOBE Acrobat Read Driver:

Insert CD Driver to the CD-ROM, driver runs by itself, and appear the following interface, please refer to the procedure, then finish installing.



Software Utility



This Page Is Left For Note