

**IEZ / ITZV4**  
**Micro-ATX Intel® 810E**  
**Micro-ATX Intel® 810**  
**Socket 370 Motherboard**

**User' s Guide**

Model : IEZ / ITZV4  
Manual Version : English, version 1.0  
Release Date : JAN 14, 2000

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### 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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## General Description

Thanks for purchasing **IEZ / ITZV4 Socket 370** mainboard. **IEZ** is based on Intel<sup>®</sup> 810E chipset (North Bridge FW82810E & South Bridge FW82801AA). The 810E chipset provides stability and value with Intel graphics performance and smart integration. **ITZV4** chipset is Intel<sup>®</sup> 810(North Bridge FW82810 & South Bridge FW82801AA). It is a highly integrated chipset designed for the basic graphics / multimedia PC platform. **IEZ / ITZV4** provide you perfect function to be the same with your system operation and end user. This user's manual contains all the information and features that show you how to use the **IEZ / ITZV4** motherboard. Please take a moment to familiarize yourself with the design and organization of this manual.

### Manual Features

This manual is divided into the following four sections:

#### Section 1: Product Information

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

#### Section 2: Hardware Installation

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

#### Section 3: CMOS Setup Utility

A summary of the mainboard CMOS (BIOS) Setting.

#### Section 4: BIOS / Software Utility

Introduction of some useful mainboard BIOS / Software utility.

### Package Check List

This **IEZ / ITZV4** mainboard package contains the following items. Please inspect the package contents and confirm that every thing is there. If anything is missing or damaged, call your vendor for instructions before operating.

The Package includes:

- One **IEZ / ITZV4** mainboard
- One Floppy Interface Cable
- One IDE Interface Cable
- One Motherboard Resource CD

# I Product Information

## SECTION 1

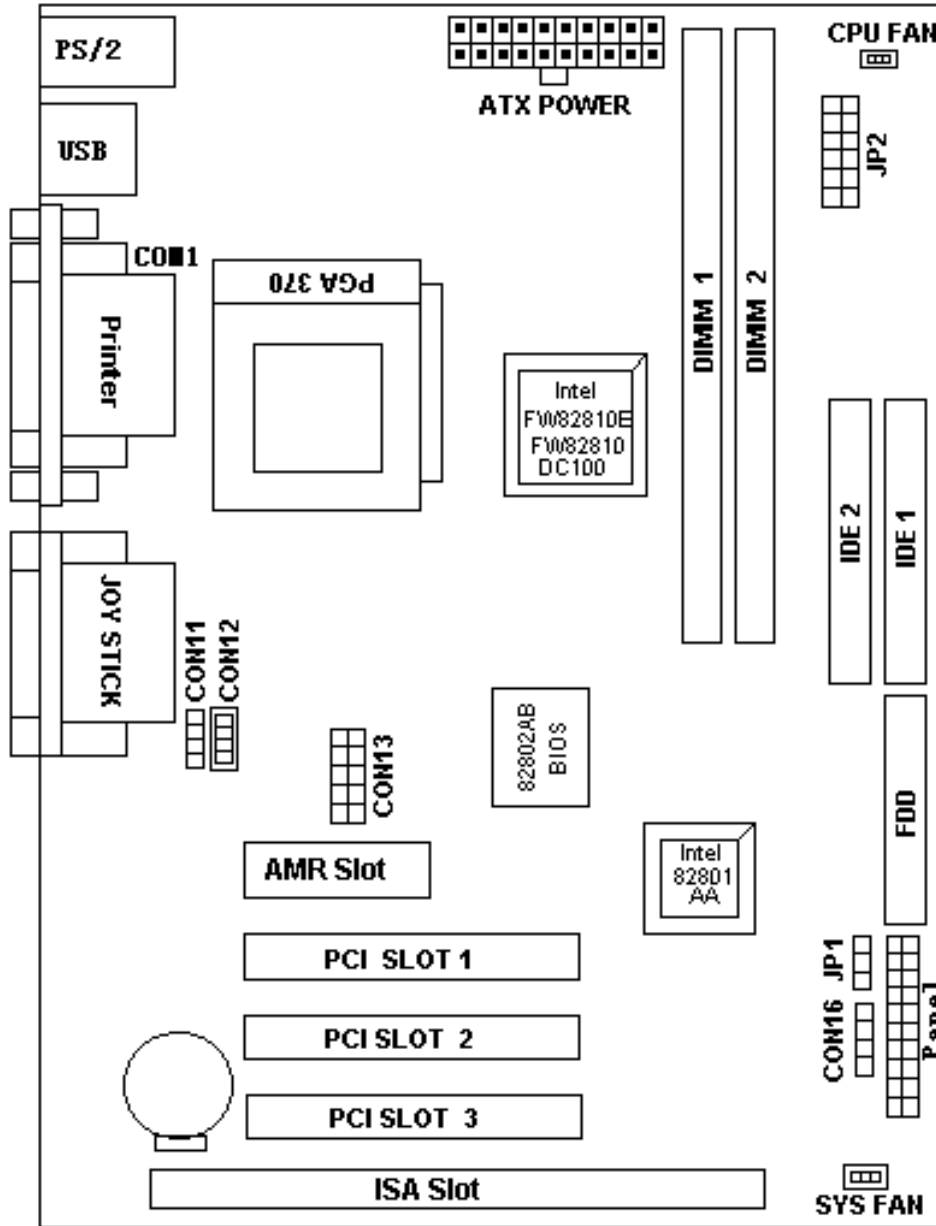
### Product Information

#### 1-1 Mainboard Specifications

Form Factor	Micro ATX form factor
Board Size	24.4cm x 19.0cm
CPU	Supports Socket 370 CPU--Celeron(PPGA) & Coppermine(FC-PGA) Supports FSB 66.8/73/100/103/118/124/133/137/140/150MHz Supports CPU type/clock by jumperless BIOS set up
System Memory	DIMM 168-pin x 2, SDRAM maximum 512MB
Chipset	Intel 810 / 810E Chipsets including: -Intel 82810(ITZV4) / Intel 82810E(IEZ)--GMCH -Intel 82801AA ICH -Intel 82802AB FWH
Expansion Slots	3 x PCI slots 1 x ISA slot 1 x AMR connector for MC'97
Serial Port	Two serial ports UATR 16550 compatible
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	Dual Ide Interface support 4 x IDE HDD or CDROM Support PIO Mode 4, ULTRA DMA/33 & ULTRA DMA/66
USB Port	Two USB ports supported Support USB Legacy Keyboard function
PS/2 Mouse	PS/2 mouse supported by connector onboard
PS/2 Keyboard	PS/2 Keyboard supported by connector onboard
Sound Function	ON-ICH Audio Codec AC'97
Fuse	Support Recoverable fuse for USB,KB & MOUSE
RTC and Battery	Built in ICH Lithium(CR-2032) battery
Power Connector	ATX
Wake up Function	LAN wake up RTC Alarm wake up
Hardware Monitor	3 Fan speed Monitor 4 Positive Voltage Inputs, 2 intrinsic voltage monitoring Over temperature indicate output Automatic Power on voltage detection beep
BIOS	Award BIOS Supports APM, DMI and ACPI Supports STR(Suspend To RAM) Supports virus warning Supports Flash / Upgrade BIOS functions
LED Indicator	System Power LED HDD activity LED System Suspend LED

# I Product Information

## 1-2 Motherboard Layout



### Jumpers

- |    |              |                     |
|----|--------------|---------------------|
| 1. | JP2          | CPU Clock Frequency |
| 2. | JP1          | Clear CMOS          |
| 3. | CON13        | COM2                |
| 4. | CON16        | IrDA                |
| 5. | CON11, CON12 | CD_IN               |

# I Product Information

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## Expansion Sockets

- |    |       |                             |
|----|-------|-----------------------------|
| 1. | DIMM1 | Support 168-pin DIMM Memory |
| 2. | DIMM2 | Support 168-pin DIMM Memory |

## Expansion Slots

- |    |                    |                                     |
|----|--------------------|-------------------------------------|
| 1. | CPU                | Socket 370 CPU                      |
| 2. | PCI slot1 to slot3 | 32-bit PCI Bus Expansion slot       |
| 3. | ISA slot           | ISA Bust Expansion slot             |
| 3. | AMR                | AMR Expansion Slot for MC97 Devices |

## Connectors

- |     |            |  |
|-----|------------|--|
| 1.  | IDE 1      | Primary IDE Connector  |
| 2.  | IDE 2      | Secondary IDE Connector  |
| 3.  | Floppy     | Floppy Drive Connector   |
| 4.  | Panel      | - PowerOn ATX Power on<br>- Reset Reset Swithch Connector<br>- HDD Led HDD Led Connector<br>- Power Led ATX Power Led Connector<br>- Speaker Chassis Speaker Connector<br>- KEYLOCK Keyboard Lock Switch Connector |
| 5.  | Sys Fan    | System Fan Connector   |
| 6.  | CPU Fan    | CPU Fan Connector  |
| 7.  | ATX Power  | ATX Power Connector  |
| 8.  | COM2       | COM2 Connector   |
| 9.  | CD         | Audio CD-IN Connector  |
| 10. | Joystick   | Game / Audio Connector   |
| 11. | Printer    | Ptinter (Parallel) Port Connector  |
| 12. | USB        | Universal Serial Bus Port1 and Port2   |
| 13. | PS/2 Mouse | PS/2 Mouse & Keyboard Connectors   |



## SECTION 2

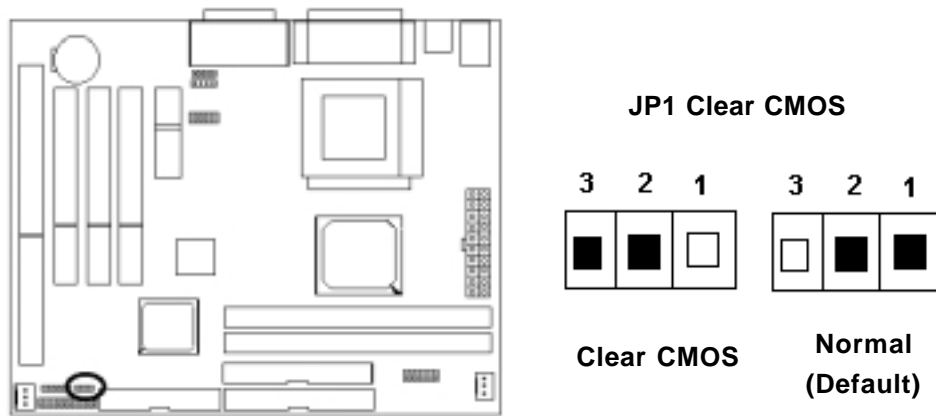
# HARDWARE INSTALLATION

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

### 2-1 Jumper Settings

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

#### 2-1.1 CMOS Clear Setting



To clear CMOS, please follow the steps below:

1. Power off the system and unplug the chassis AC power cord.
2. Short JP1 at pin 2-3 for few seconds.
3. Set JP1 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 setup default.

## II. HARDWARE INSTALLATION

### 2-1.2 CPU Type Setting

#### Static Precautions

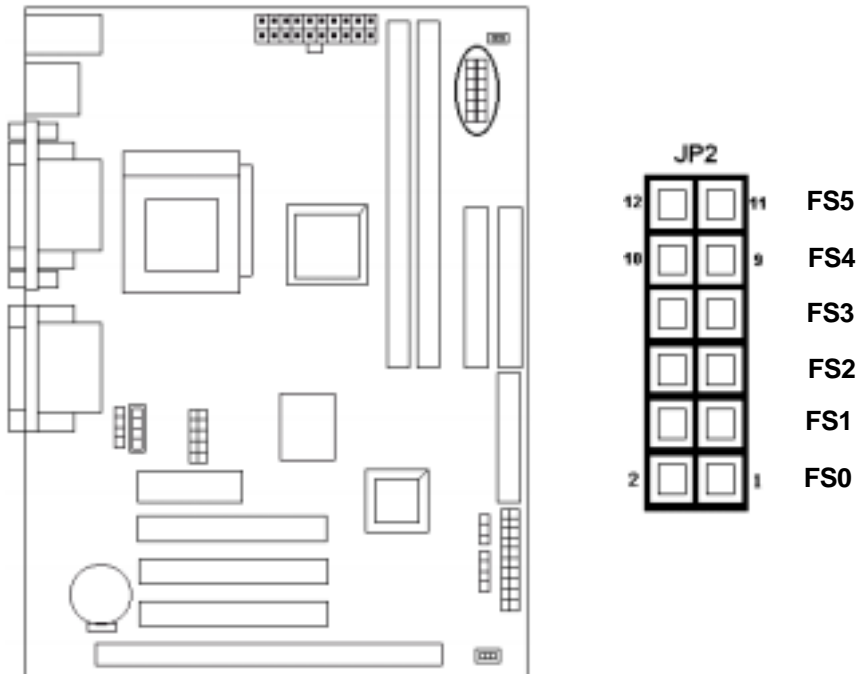
Static electricity can be a serious damage to the electronic components on this mainboard. To avoid damage caused by electrostatic discharge, observe the following precautions:

- Don't 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.

#### CPU Setting

After installing the CPU, you must set the clock selection jumpers to match the frequency of the CPU. Find the jumpers labeled **JP2** set the jumpers (from 1 to 8 jumpers, we call them as FS0, FS1, FS2 and FS3) according to the figure below and table for CPU frequency. **JP2**'s jumpers from 9 to 12 (we call them as FS4 and FS5) are used for over-clock, we also recommend them to users.

#### CPU Frequency



## II. HARDWARE INSTALLATION

**Remarks:**

This motherboard belongs to jumperless and its Clock Ratio has been Set in the BIOS. If the user need to change any ratio, please reset in the BIOS.

**☞ Clock Frequency:**

FS3	FS2	FS1	FS0	CPU (MHz)	PCICLK (MHz)
Short	Short	Short	Short	66.80	33.40
Short	Short	Short	Open	68.00	34.00
Short	Short	Open	Short	100.30	33.43
Short	Short	Open	Open	103.00	34.33
Short	Open	Short	Short	133.73	33.43
Short	Open	Short	Open	145.00	36.25
Short	Open	Open	Short	133.73	33.43
Short	Open	Open	Open	137.33	34.33
Open	Short	Short	Short	140.00	35.00
Open	Short	Short	Open	140.00	46.67
Open	Short	Open	Short	118.00	39.33
Open	Short	Open	Open	124.00	41.33
Open	Open	Short	Short	133.70	44.57
Open	Open	Short	Open	137.00	45.67
Open	Open	Open	Short	150.00	37.50
Open	Open	Open	Open	72.50	36.25

**☞ OVER-CLOCK Select :**

JP2

I

JP2

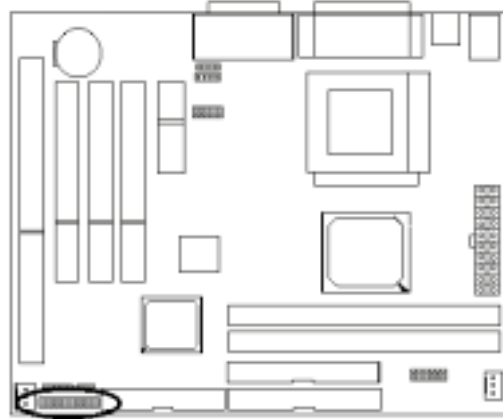
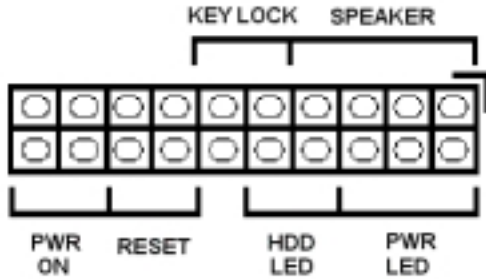
II

JP2	FS4	FS5	FREQUENCY
JP2-I	SHORT	OPEN	66/100
JP2-II	OPEN	SHORT	100/133

## II. HARDWARE INSTALLATION

### 2-2 Connectors

#### 2-2.1 Panel Connector

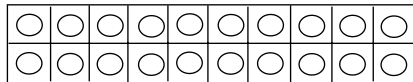


- PWRLED      ATX Power LED Connector (3 pins)
- SPEAKER    Chassis Speaker Connector (4 pins)
- KEY LOCK    Key Lock Connector (2 pins)
- HDDLED      HDD LED Connector (2 pins)
- RESET        Reset Switch Connector (2 pins)
- PWR ON        ATX Power Switch Connector (2 pins)

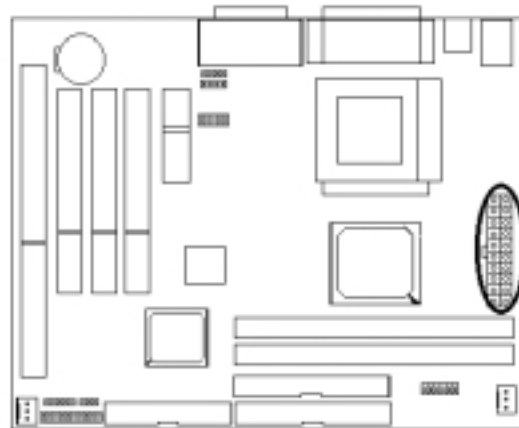
#### 2-2.2 Power Connector

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

**Remark: We suggest that users use 5 V STB and power source current should be over 0.7A, otherwise it will affect system boot up.**



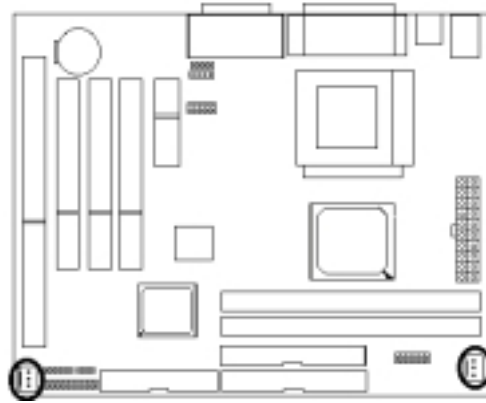
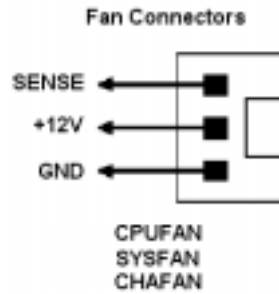
ATX Power Connector



## II. HARDWARE INSTALLATION

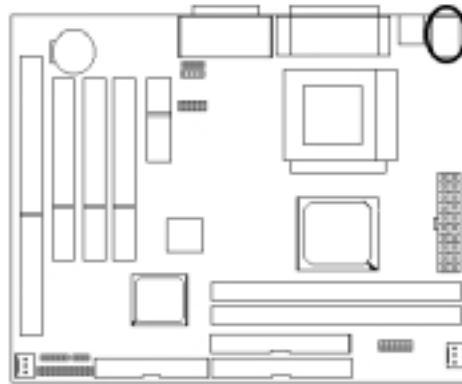
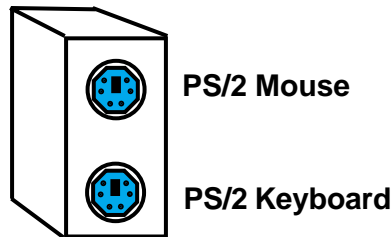
### 2-2.3 Fan Connector

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.



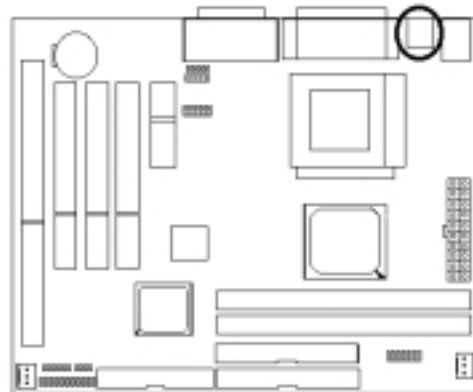
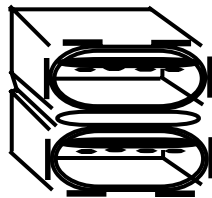
### 2-2.4 PS/2 Mouse and Keyboard Connectors

Connect the PS/2 mouse and keyboard to the onboard 6-pin Mini-Din connector shown as below.



### 2-2.5 USB Device Connector

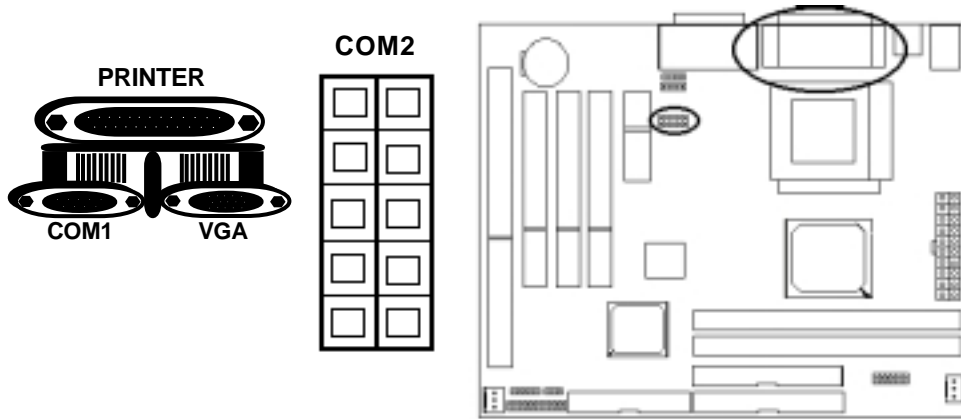
Connect your USB device(s) to the onboard USB connector shown as below.



## II. HARDWARE INSTALLATION

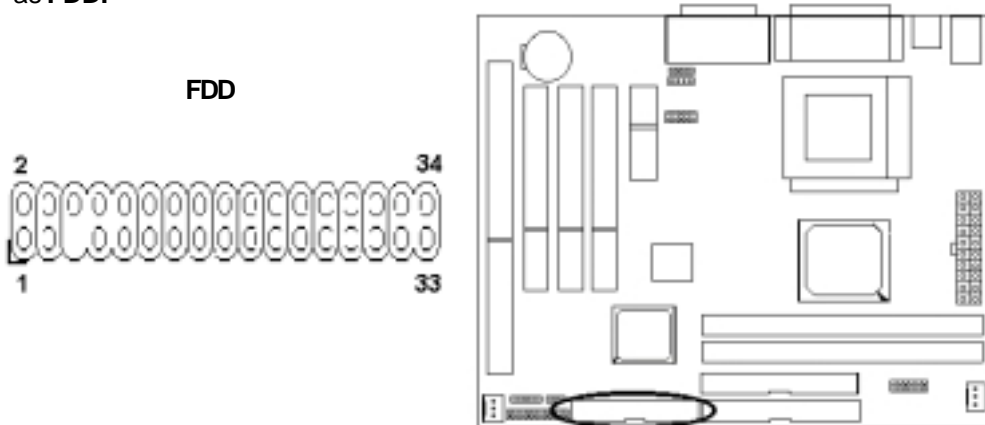
### 2-2.6 Serial Device (COM1/COM2), VGA and Printer Connectors

Connector your serial device(s) to the onboard serial connectors marked as **COM1** and **COM2**. 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.



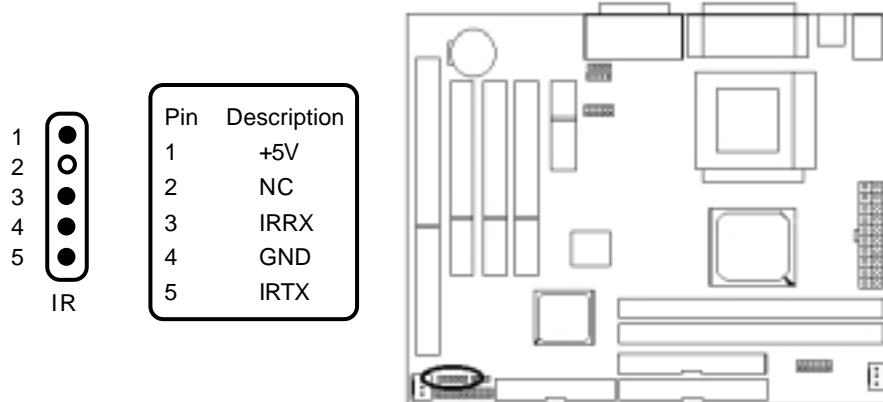
### 2-2.7 Floppy Drive Connector

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



### 2-2.8 IrDA Connector

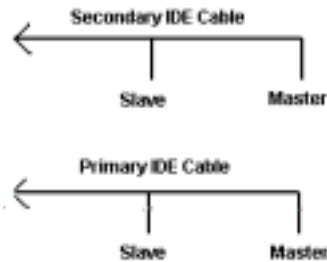
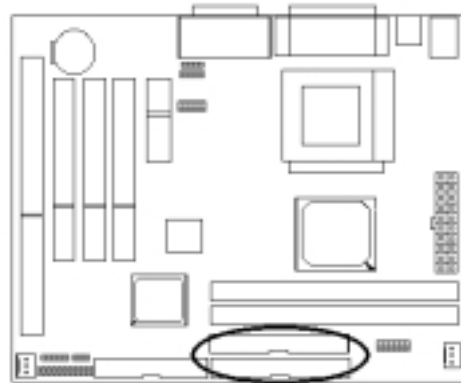
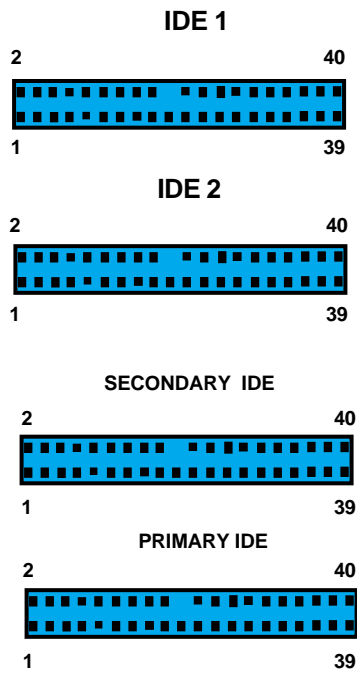
Connect your IR devices to the onboard **IrDA** connectors shown as below.



## II. HARDWARE INSTALLATION

### 2-2.9 IDE Hard Disk Connector

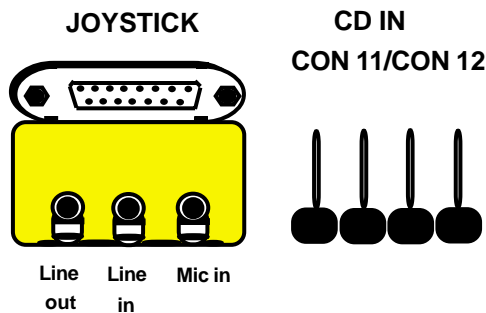
Connect your IDE devices to the onboard 40-pin IDE connectors marked as **IDE1** and **IDE2**.



It is suggested that you connect the IDE devices to your IDE cables as the figure shown above. Each IDE channel, either Primary or Secondary, supports two IDE devices which must be set differently to master mode and slave mode.

### 2-3 Game / Audio Connector and CD IN Connectors

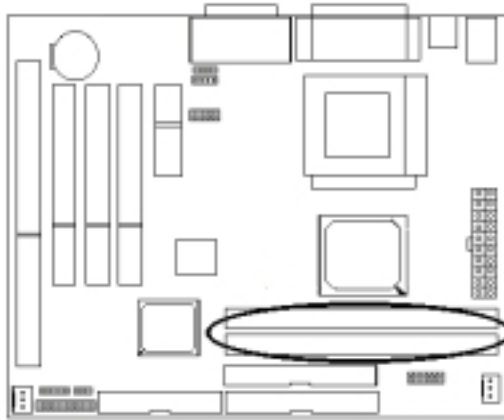
Connect the game device onboard marked as **JOYSTICK**. CD connectors onboard marked as **CD IN** are for CD-ROM connector and.



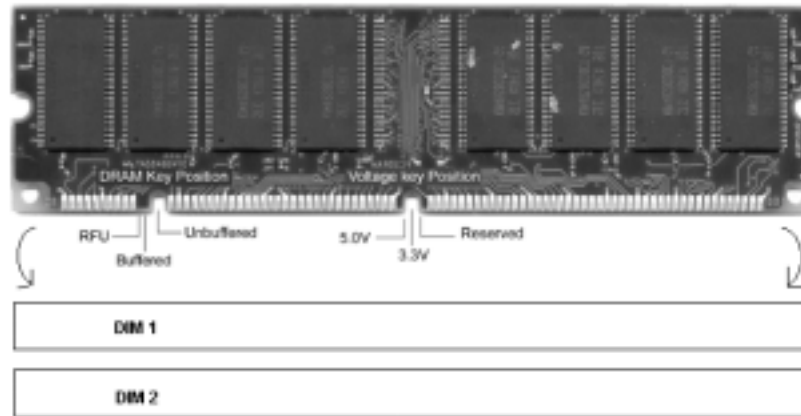
## II. HARDWARE INSTALLATION

### 2-4 System Memory Installation

There are 2 pieces 168-pin DIMM (Dual Inline Memory Module) sockets on the mainboard which support SDRAM and EDO DRAM memory.



There are 2x168-pin DIMM slots (DIMM1, DIMM2) that allow you to install the system memory max up to 512MB SDRAM.



- ◆ 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 supported: **8MB, 16MB, 32MB, 64MB, 128MB, 256MB.**
- ◆ Total Memory Size = DIMM1 + DIMM2, maximum up to 512MB.



# III CMOS SETUP UTILITY

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## SECTION 3

### CMOS SETUP UTILITY

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

#### 3-1 BIOS Setup Main Menu

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

CMOS Setup Utility - 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 Configurations	Save & Exit Setup
> PC Health Status	Exit Without Saving
Esc : Quit                                   ↑ ↓ ← → : Select Item	
F10 : Save & Exit Setup	
Abandon all Datas	

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** : General Help on setup.

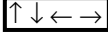
**F10** : Save CMOS Changes & Exit.

**ENTER** : To select or enter a submenu.

**ESC** : Main Menu: quit without saving changes.

## III CMOS SETUP UTILITY

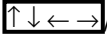
### 3-2 Standard CMOS Setup

The items in Standard CMOS Setup Menu are divided into 10 categories. Each category includes none, one or more than one setup items. Use the arrow keys to highlight the item and then use the  / <PgUp> / <PgDn> keys to select the value you want in each item.

#### Standard CMOS Features

Date (mm : dd : yy): Time (hh : mm : ss):	Mon, Feb 8 1999 16:19:20	Item Help
> IDE Primary Master > IDE Primary Slave > IDE Secondary Master > IDE Secondary Slave	Press Enter None Press Enter None Press Enter None Press Enter None	Menu Level >
Drive A Drive B	1.44M, 3.5 in. None	Change the day, month, year and century
Video Halt On	EGA/VGA All, But Keyboard	
Base Memory Extended Memory Total Memory	640K 30720K 31744K	
↑↓←→Move Enter: Select +/-PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults 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.

- IDE Primary Master
- IDE Primary Slave
- IDE Secondary Master
- IDE Secondary Slave

Press <Enter> to enter the submenu of detailed options, the following table shows the IDE primary master submenu.

#### CMOS Setup Utility – Copyright © 1984-1999 Award Software IDE Primary Master

IDE HDD Auto-Detection	Press Enter	Item Help
IDE Primary Master Access Mode Capacity Cylinder Head Precomp Landing Zone Sector	Auto Auto 0 MB 0 0 0 0 0	Menu Level >>  To auto-detect the HDD's size, head... on this channel
↑↓←→Move Enter: Select +/-PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

### III CMOS SETUP UTILITY

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■ **IDE HDD Auto-detection**

**IDE HDD Auto-detection:** Press enter to auto - detect the HDD on the channel. If detection is successful, it fills the remaining fields on the menu.

■ **IDE Primary Master**

**IDE Primary Master:** Selecting 'manual' lets you set the remaining fields on the screen. Selects the type of fixed disk. "User Type" will let you select the number of cylinders, heads, etc.  
 - None  
 - Auto  
 - Manual  
 Note: PRECOMP=65535 means NONE!

**Default: Auto**

■ **Access Mode**

**Access Mode:** Choose the access mode for this hard disk.  
 - Normal  
 - LBA  
 - Large  
 - Auto

**Default: Auto**

■ **Capacity**

**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.  
 - Auto display your drive size

<b>The following options are selectable only if the 'IDE Primary Master' item is set to 'Manual' and Access Mode is set to "Normal":</b>		
Cylinder	Min = 0 Max = 65535	Set the number of cylinders for this hard disk.
Head	Min = 0 Max = 255	Set the number of read/write heads
Precomp	Min = 0 Max = 65535	Warning: Setting a value of 65535 means no hard disk
Landing zone	Min = 0 Max = 65535	
Sector	Min = 0 Max = 255	Number of sectors per track

### III CMOS SETUP UTILITY

■ **Drive A / Drive B**

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

	<b>Default: Drive A</b>	<b>1.44MB 3.5</b>
	<b>Drive B</b>	<b>None</b>

■ **Video**

**Video:** Select the video display card type installed in your system. The available types are: EGA/VGA, CGA 40, CGA80 and Mono.

**Default: EGA/VGA**

■ **Halt On**

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

**Default: All, But Keyboard**

### 3-3 Advanced BIOS Features

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

**CMOS Setup Utility – Copyright © 1984 – 2000 Award Software  
Advanced BIOS Features**

Virus Warning Enabled CPU Internal Cache Enabled External Cache Enabled CPU L2 Cache ECC Checking 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 Off Gate A20 Option Fast Typematic Rate Setting Disabled Typematic Rate (Chars/Sec) 6 Typematic Delay (Msec) 250 Security Option Setup OS Select For DRAM > 64MB Non-OS2 Report No FDD For WIN 95 No	Item Help	Menu Level >  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
↑↓←→Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

### III CMOS SETUP UTILITY

---

- **Virus Warning**  
**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.
  - Enabled
  - Disabled

**Default: Disabled**
  
- **CPU internal / external cache**  
**CPU internal / external cache:** These two items controls Enable / Disable the CPU internal / external cache.
  - Enabled
  - Disabled

**Default: Enabled**
  
- **CPU L2 Cache ECC Checking**  
**CPU L2 Cache ECC Checking:** This item allows you to enable / disable CPU L2 Cache ECC Checking.
  - Enabled
  - Disabled

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

**Default: Disabled**
  
- **First / Second / Third / Boot Other Device**  
**First / Second / Third / Boot Other Device:** The BIOS attempts to load the operating system from the devices in the sequence selected in these items.
  - Floppy
  - LS / ZIP
  - HDD-0/1/2/3
  - SCSI
  - CDROM
  - LAN
  - Disabled
  - Enabled

**Default: First→floppy,  
Second→HDD-O,  
Third→LS/ZIP,  
Other→Enabled**
  
- **Swap Floppy Drive**  
**Swap Floppy Drive:** If the system has two floppy drives, choose enable to assign physical drive B to logical drive A and vice-versa.
  - Enabled
  - Disabled

**Default: Disabled**

### III CMOS SETUP UTILITY

---

■ **Boot Up Floppy Seek**

**Boot Up Floppy Seek:**

Seeks disk drives during boot up.

- Enabled
- Disabled

**Default: Enabled**

■ **Boot Up NumLock Status**

**Boot Up NumLock Status:**

Selects power on state for NumLock.

- Off
- On

**Default: off**

■ **Gate A20 Option**

**Gate A20 Option:**

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

- Normal
- Fast

**Default: Fast**

■ **Typematic Rate Setting**

**Typematic Rate Setting:**

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

- Enabled
- Disabled

**Default: Disabled**

■ **Typematic Rate (Chars/Sec)**

**Typematic Rate (Chars/Sec):**

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

- 6
- 8
- 10
- 12
- 15
- 20
- 24
- 30

**Default: 6**

### III CMOS SETUP UTILITY

---

■ **Typematic Delay (Msec)**

**Typematic Delay (Msec):**

- 250
- 500
- 750
- 1000

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

**Default: 250**

■ **Security option**

**Security option:**

- Setup
- System

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 the correct password is not entered at the prompt.

**Default: Setup**

■ **OS Select for DRAM > 64MB**

**OS Select for DRAM > 64MB:**

- Non-OS/2
- OS/2

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

**Default: Non-OS/2**

■ **Report No FDD for WIN 95**

**Report No FDD for WIN 95:**

- Yes
- No

Whether report no FDD for WIN 95 or not.

**Default: No**

### III CMOS SETUP UTILITY

#### 3-4 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 is if you discovered that the data were being lost while controlling your system.

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Advanced Chipset Features

SDRAM CAS Latency Time           2 SDRAM Cycle Time Tras/Trc       6/8 SDRAM RAS-to-CAS Delay           3 SDRAM RAS Precharge Time        3 System BIOS Cacheable            Disabled Video BIOS Cacheable             Disabled Memory Hole At 15M-16M          Disabled CPU Latency Timer                 Disabled Delayed Transaction               Enabled On-Chip Video Window Size        64MB Use VGA BIOS in VBU Block        Enabled Local Memory Frequency           100 Mhz  * Onboard Display Cache Setting * CAS# Latency                      3 Paging Mode Control             Open RAS-to-CAS Override             by CAS# LT RAS# Timing                       Fast RAS# Precharge Timing          Fast	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">Item Help</td> </tr> <tr> <td style="padding: 2px;">Menu Level    &gt;</td> </tr> </table>	Item Help	Menu Level    >										
Item Help													
Menu Level    >													
<table style="width: 100%; border: none;"> <tr> <td style="border: none;">↑↓←→Move</td> <td style="border: none;">Enter: Select</td> <td style="border: none;">+/-/PU/PD: Value</td> <td style="border: none;">F10:Save</td> <td style="border: none;">ESC: Exit</td> <td style="border: none;">F1:General Help</td> </tr> <tr> <td style="border: none;">F5:Previous Values</td> <td style="border: none;">F6:Fail-safe Defaults</td> <td style="border: none;">F7:Optimized Defaults</td> <td colspan="3" style="border: none;"></td> </tr> </table>		↑↓←→Move	Enter: Select	+/-/PU/PD: Value	F10:Save	ESC: Exit	F1:General Help	F5:Previous Values	F6:Fail-safe Defaults	F7:Optimized Defaults			
↑↓←→Move	Enter: Select	+/-/PU/PD: Value	F10:Save	ESC: Exit	F1:General Help								
F5:Previous Values	F6:Fail-safe Defaults	F7:Optimized Defaults											

- |          |                                |  |
|----------|--------------------------------|--|
| <b>■</b> | <b>SDRAM CAS Latency Time</b>  |  |
|          | <b>SDRAM CAS Latency Time:</b> | When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing |
| -        | 3                              |  |
| -        | 2                              |  |
|          |                                | <b>Default: 3</b>  |
- |          |                                   |  |
|----------|-----------------------------------|--|
| <b>■</b> | <b>SDRAM Cycle Time Tras/Trc</b>  |  |
|          | <b>SDRAM Cycle Time Tras/Trc:</b> | Select the number of SCLKs for an access |
| -        | 6/8                               |  |
| -        | 5/7                               |  |
|          |                                   | <b>Default: 6/8</b>                      |
- |          |                                |  |
|----------|--------------------------------|--|
| <b>■</b> | <b>SDRAM RAS-to-CAS Delay</b>  |  |
|          | <b>SDRAM RAS-to-CAS Delay:</b> | When synchronous DRAM is installed in the system, this field lets you insert a timing delay between the as CAS and RAS strobe signals, used DRAM is written to, read from, or refreshed. |
| -        | 3                              |  |
| -        | 2                              |  |
|          |                                | <b>Default: 3</b>  |



### III CMOS SETUP UTILITY

---

- **SDRAM RAS Precharge Time**  
**SDRAM RAS Precharge Time:**
  - 3
  - 2

If an insufficient number of cycles is allowed for the RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete and the DRAM may fail to retain data.

**Default: 3**
  
- **System BIOS Cacheable**  
**System BIOS Cacheable:**
  - Enabled
  - Disabled

Selecting Enabled allows caching of the system BIOS ROM at F0000h-FFFFFh, resulting in better system performance.

**Default: Disabled**
  
- **Video BIOS Cacheable**  
**Video BIOS Cacheable:**
  - Enabled
  - Disabled

Select Enabled allows caching of the video BIOS, resulting in better system performance.

**Default: Disabled**
  
- **Memory Hole At 15M - 16M**  
**Memory Hole At 15M - 16M:**
  - Enabled
  - Disabled

When this area is reserved, it cannot be cached. The user information of peripherals that need to use this area of system memory usually discusses their memory requirements.

**Default: Disabled**
  
- **CPU Latency Timer**  
**CPU Latency Timer**
  - Enabled
  - Disabled

This option allows you to Enabled/Disabled CPU latency Timer.

**Default: Disabled**
  
- **Delayed Transaction**  
**Delayed Transaction:**
  - Enabled
  - Disabled

Select Enabled to support compliance with PCI specification version 2.1

**Default: Enabled**

### III CMOS SETUP UTILITY

---

- **On-chip Video Window Size**  
**On-chip Video Window Size:** Select the on-chip video window size for VGA drive use.
  - Enabled
  - 32MB
  - 64MB

**Default: 64MB**
  
- **Use VGA BIOS in VBU Block**  
**Use VGA BIOS in VBU Block:** Let you determine whether use VGA BIOS in VBU Block or not.
  - Enabled
  - Disabled

**Default: Enabled**
  
- **Local Memory Frequency**  
**Local Memory Frequency:** Normally, the local memory frequency equals CPU frequency. But this item let you choose local memory frequency, which means you can let local memory and CPU work in different frequency.
  - 100MHz
  - 133MHz

**Default: 100MHz**
  
- **CAS # Latency**  
**CAS # Latency:** Select the local memory clock periods.
  - 3
  - 2

**Default: 3**
  
- **Paging Mode Control**  
**Paging Mode Control:** Select the paging mode control.
  - Open
  - Close

**Default: Open**
  
- **RAS-to-CAS Override**  
**RAS-to-CAS Override:** Select the display cache clock periods control.
  - By CAS # LT
  - Override

**Default: By CAS # LT**
  
- **RAS # Timing**  
**RAS # Timing:** This item controls RAS#active to Protegra, and refresh to RAS# active delay (in local memory clocks).
  - Fast
  - Slow

**Default: Fast**
  
- **RAS # Precharge Timing**  
**RAS # Precharge Timing:** This item controls RAS# precharge (in local memory clocks).
  - Fast
  - Slow

**Default: Fast**

# III CMOS SETUP UTILITY

## 3-5 Integrated Peripherals

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Integrated Peripherals

OnChip Primary PCI IDE	Enabled	Item Help
OnChip Secondary PCI IDE	Enabled	
IDE Primary Master PIO	Auto	Menu Level >
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	
USB Controller	Enabled	
USB Keyboard Support	Disabled	
Init Display First	PCI Slot	
AC97 Audio	Auto	
AC97 Modem	Auto	
IDE HDD Block Mode	Enabled	
KBC Input Clock	8MHz	
Power On Function	Hot Key	
* KB Power On Password	Enter	
* Hot Key Power On	Ctrl-F1	
Onboard FDC Controller	Enabled	
Onboard Serial Port 1	3F8/IRQ4	
Onboard Serial Port 2	2F8/IRQ3	
UART Mode Select	Normal	
* LPT2 Duplex Mode	Half	
Onboard Parallel Port	378/IRQ7	
Parallel Port Mode	SPP	
* ECP Mode Use DMA	3	
Game Port Address	201	
Mid Port Address	330	
Mid Port IRQ	10	

↑ ← → Move Enter: Select +/- PUPD Value F10: Save ESC: Exit F1: General Help  
 F5: Previous Values F6: Fail-safe defaults F7: Optimized Defaults

■ **On-Chip Primary / Secondary PCI IDE**

**On-Chip Primary / Secondary PCI IDE:**

- Enabled
- Disabled

The integrated peripheral controller contains an IDE interface with support for two IDE channels. Select Enabled to activate each channel separately.

**Default: Enabled**

■ **IDE Primary / Secondary Master / Slave PIO**

**IDE Primary / Secondary Master / Slave PIO:**

- Auto
- Mode 0
- Mode 1
- Mode 2
- Mode 3
- Mode 4

The four IDE PIO fields let you set a PIO mode for each of the four IDE devices that IDE interface support onboard. Mode 0 through 4 provide successively increased performance. In Auto mode, the system automatically determines the best mode for each device.

**Default: Auto**

■ **IDE Primary / Secondary Master / Slave UDMA**

**IDE Primary / Secondary Master / Slave UDMA:**

- Auto
- Disabled

If your hard drive and system software both support Ultra DMA 33, select Auto to enable BIOS support.

**Default: Auto**

### III CMOS SETUP UTILITY

---

- **USB Controller**  
**USB Controller:** Select Enabled if your system contains a Universal Serial Bus (USB) controller and you have a USB peripheral.  
- Enabled  
- Disabled  
**Default: Enabled**
  
- **USB Keyboard Support**  
**USB Keyboard Support:** Select Enabled if your system contains a universal Serial Bus (USB) controller and you have a USB keyboard.  
- Enabled  
- Disabled  
**Default: Disabled**
  
- **Init Display First**  
**Init Display First:** This item allows you to decide to active whether PCI slot or on-chip VGA first.  
- PCI Slot  
- Onboard  
**Default: PCI Slot**
  
- **AC 97 Audio / Modem**  
**AC 97 Audio / Modem:** This item allows you to decide to enable/disable the 810 chipset family to support AC 97 audio / modem.  
- Auto  
- Disabled  
**Default: Auto**
  
- **IDE HDD Block Mode**  
**IDE HDD Block Mode:** If your IDE hard drive supports block mode (most new drives do), select Enabled for automatic detection of the optimal number of block read / write per sector the drive can support.  
- Enabled  
- Disabled  
**Default: Enabled**
  
- **KBC input clock**  
**KBC input clock:** Set the KBC input clock.  
- 8MHz  
- 12MHz  
**Default: 8MHz**
  
- **POWER ON Function**  
**POWER ON Function:** Set the power on function mode for power on.  
- Password  
- Hot KEY  
- Mouse Left / Right  
- Any KEY  
- Bottom Only  
- Keyboard 98  
**Default: Any KEY**

### III CMOS SETUP UTILITY

---

■ **KB Power ON Password**

**KB Power ON Password:**

If Power On Function is set Password, this option let you set KB Power OnPassword. Press <Enter> and enter your password.

■ **Hot Key Power ON**

**Hot Key Power ON:**

- Ctrl-F1
- ~ Ctrl-F12

This option let you choose Power ON Key from <Ctrl-F1> to <Ctrl-F12>.

**Default: Ctrl-F1**

■ **Onboard FDC Controller**

**Onboard FDC Controller:**

- Enabled
- Disabled

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

**Default: Enabled**

■ **Onboard Serial Port 1/2**

**Onboard Serial Port 1/2:**

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

Select a logical COM port name and matching address for the first and second serial ports. Select an address and corresponding interrupt for the first and second serial ports.

**Default: Port1 3F8/IRQ4  
Port2 2F8/IRQ3**

■ **UART Mode Select**

**UART Mode Select:**

- Normal
- IrDA
- ASKIR

Let you choose UART Mode.

**Default: Normal**

■ **Onboard Parallel Port**

**Onboard Parallel Port:**

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

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

**Default: 378/IRQ7**

### III CMOS SETUP UTILITY

---

■ **Parallel Port Mode**

**Parallel Port Mode:**

Select an operating mode for the on board parallel (printer) port.

- SPP
- EPP
- ECP
- ECP+EPP

**Default: SPP**

■ **Game Port Address**

**Game Port Address:**

Select an address for game port.

- Disabled
- 201
- 209

**Default: 201**

■ **Midi Port Address**

**Midi Port Address:**

Select an address for Midi Port.

- Disabled
- 330
- 300
- 290

**Default: 330**

■ **Midi Port IRQ**

**Midi Port IRQ:**

Select a corresponding interrupt for Midi Port.

- 5
- 10

**Default: 10**

## III CMOS SETUP UTILITY

### 3-6 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 ACPI Suspend Type Power Management Video Off Method Video Off In Suspend Suspend Type MODEM Use IRQ Suspend Mode HDD Power Down Soft-Off by PWR-BTTN Power On by Ring Resume by Alarm * Date (of Month) Alarm * Time (hh:mm:ss) Alarm  ** Reload Global Timer Events ** Primary IDE 0 Primary IDE 1 Secondary IDE 0 Secondary IDE 1 FDD, CDM, LPT Port PCI PIRQ [A-D]#	Enabled S3 (STR) User Define DPMS Yes PwrOn Suspend 3 Disabled Disabled Instant-Off Enabled Disabled 0 0 0 0  Disabled Disabled Disabled Disabled Disabled Disabled	Item Help <hr/> Menu Level >
↑↓←→Move Enter: Select +/-PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

■ **ACPI Function**

**ACPI Function:** This option allows you to enable/disable the Advance Configuration and power Interface which offers improved power management

- Enabled
- Disabled

**Default: Enabled**

■ **ACPI Suspend Type**

**ACPI Suspend Type:** Select type for ACPI Suspend.

- S1 (POS)
- S3 (STR)

**Default: S1 (POS)**

■ **Power Management**

**Power Management:** This category allows you to select the type(or degree) of power directly related to the following modes: HDD Power Down; Doze Mode; Suspend Mode. User Define allows you to set each mode individually. When not disabled, each of the ranges are from 1min. to 1 hr. except for HDD Power Down which ranges from 1 min. to 15 min. and disable.

- User Define
- Min Saving
- Max Saving

**Default: User Define**

### III CMOS SETUP UTILITY

---

- **Video Off Method**  
**Video Off Method:** Determines the manner in which the monitor is banded System turns off vertical and horizontal synchroniza  
tion ports and writes blanks to the video buffer. Select  
this option if your monitor supports. System only writes  
blanks to the video buffer.
  - V/H SYNC+Blank
  - DPMS
  - Blank Screen

**Default: DPMS**
  
- **Video Off In Suspend**  
**Video Off In Suspend:** Setup whether video off in suspend or not.
  - Yes
  - No

**Default: Yes**
  
- **Suspend Type**  
**Suspend Type:** This item lets you select a method of global system  
suspend.
  - Stop Grant
  - PwrOn Suspend

**Default: PwrOn Suspend**
  
- **Modem Use IRQ**  
**Modem Use IRQ:** Name the interrupt request (IRQ) line assigned to the  
modem (if any) on your system.  
Select IRQ always awakens the system.
  - NA
  - 3,4,5,7,9,10,11
  
- **Suspend Mode**  
**Suspend Mode** After the selected period of system inactivity,  
all devices except the CPU shut off.
  - 1/2/4/8/12/20/30/40Min
  - 1 Hour
  - Disabled

**Default: Disabled**
  
- **HDD Power Down**  
**HDD Power Down** After the selected period of drive inactivity,  
the hard disk drive powers down while all  
other devices remain active.
  - 1/2/3/4/5/6/7/8/9  
/10/11/12/13/14/15 Min
  - Disabled

**Default: Disabled**



### III CMOS SETUP UTILITY

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- **Soft-Off by PWR-BTTN**  
**Soft-Off by PWR-BTTN**  
- Instant-Off  
- Delay 4 Sec.  
When Enabled, turning the system off with the on/off button places the system in a very low-power-usage state, with only enough circuitry receiving power to detect power button activity or Resume by Ring activity.  
**Default: Instant-Off**
  
- **Power On by Ring**  
**Power On by Ring**  
- Enabled  
- Disabled  
Setup whether Power on by ring or not.  
**Default: Enabled**
  
- **Resume by Alarm**  
**Resume by Alarm**  
- Enabled  
- Disabled  
Set whether resume by alarm or not.  
**Default: Disabled**
  
- **Primary/Secondary IDE 0 / IDE 1**  
**Primary/Secondary IDE 0 / IDE 1:**  
- Enabled  
- Disabled  
This option allows you determine whether enable Primary/Secondary IDE 0/IDE 1 or not.  
**Default: Disabled**
  
- **FDD,COM,LPT Port**  
**FDD,COM,LPT Port**  
- Enabled  
- Disabled  
This option allows you set whether enable FDD, COM, LPT Port or not.  
**Default: Disabled**
  
- **PCI PIRQ[A-D]#**  
**PCI PIRQ[A-D]#**  
- Enabled  
- Disabled  
This option lets you set PCI PIRQ [A-D]#.  
**Default: Disabled**

## III CMOS SETUP UTILITY

### 3-7 PnP/PCI Configurations

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

**CMOS Setup Utility - Copyright © 1984-2000 Award Software  
PnP/PCI Configurations**

PNP OS Installed	No	
Reset Configuration Data	Disabled	Item Help
Resources Controlled By	Auto(ESCD)	Menu Level >
* IRQ Resources * DMA Resources * Memory Resources	Press Enter	
PCI/VGA Palette Snoop	Disabled	
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults		

■ **Reset Configuration Data**

**Reset Configuration Data**

- Enabled
- 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 cannot boot.

**Default: Disabled**

■ **Resources controlled By**

**Resources controlled By**

- Auto(ESCD)
- Manual

The Plug and Play AwardBIOS can automatically configure all the boot and Plug and Play compatible devices. If you select Auto, all the interrupt request (IRQ) and DMA assignment fields disappear, as the BIOS automatically assigns them.

**Default: Auto(ESCD)**

■ **PCI/VGA Palette Snoop**

**PCI/VGA Palette Snoop**

- Enabled
- Disabled

Leave this field at Disabled.

**Default: Disabled**

### III CMOS SETUP UTILITY

#### 3-8 PC Health Status

This option show you some statistics including current system temp, current CPU1 temp, current CPUFAN1, FAN2 speed etc. which indicate your PC health status.

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PC Health Status

Voltage 0	1.45v	Item Help	
Voltage 1	0.97v		
Voltage 2	2.76v	Menu Level >	
Voltage 3	6.85v		
Voltage 4	11.26		
Voltage 5	(-) 16.96v		
Voltage 6	(-) 8.77v		
Voltage 7	8.00v		
Voltage Battery	3.45v		
Temperature 1	28c		
Temperature 2	54c		
Fan 1 speed	ORPM		
Fan 2 speed	ORPM		
↑↓→←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults			

#### 3-9 Frequency/Voltage Control

CMOS Setup Utility - Copyright © 1984-2000Award Software  
Frequency / Voltage Control

Auto Detect DIMM/PCI Clk	Enabled	Item Help
Spread Spectrum	Disabled	
Host CPU/DIMM/PCI Clock	Default	Menu Level >
CPU Clock Ratio	X 3	
↑↓→←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

#### ■ Auto Detect DIMM/PCI Clk

##### Auto Detect DIMM/PCI Clk:

- Enabled
- Disabled

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.

**Default: Enabled**

### III CMOS SETUP UTILITY

---

■ **Spread Spectrum**

**Spread Spectrum:**

- Enabled
- Disabled

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.

**Default: Disabled**

■ **Host CPU/DIMM/PCI Clock**

**Host CPU/DIMM/PCI Clock:**

- Default
- 66/100/33MHz
- 68/102/34MHz
- 75/112/37MHz

Setup Host CPU/DIMM/PCI Clock

**Default: Default**

■ **CPU Clock Ratio**

**CPU Clock Ratio**

- x3
- x3.5
- x4
- x4.5
- x5
- x5.5
- x6
- x6.5
- x7
- x7.5
- x8

Setup CPU Clock Ratio, you can choose from x3/x3.5/x4/x4.5/x5/x5.5/x6/x6.5/x7/x7.5/x8.

**Default: x3**



## III CMOS SETUP UTILITY

---

### 3-12 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 JP1 at Pin 2-3 for a few seconds to clear CMOS.
- iii. Set the JP1 back to Pin 1-2.
- iv. Power on the system.

#### **(2) Clear Password:**

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

### 3-13 Save & Exit Setup

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

### 3-14 Exit Without Saving

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

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## IV SOFTWARE UTILITY

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### SECTION 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. The support software contains the following programs:

- ❖ Intel VGA Driver Program
- ❖ Intel chipset Driver Program
- ❖ Audio Codec Driver Program

#### 4-1 Intel VGA Driver Program

- ◆ **Driver files location:**  
Intel VGA Driver Program: \Video\810VGA

#### 4-2 Intel chipset Driver Program

- ◆ **Driver files location:**  
Intel chipset Driver Program: \Ide\810\intelinf  
  \Ide\810\infinst  
Please run "SETUP.EXE" file in the directory "intelinf",  
then run "SETUP.EXE" file in the directory "infinst".

#### 4-3 Audio Codec Driver Program

- ◆ **Driver files location:**  
Audio Codec Driver Program:\Audio\810 Audio