

ITZV6
Flex-ATX Intel® 810
Socket 370 Motherboard
USER'S MANUAL

Model : ITZV6
Manual Version : English, version 1.1
Release Date : May 18th, 2000

Contents

Chapter 1 Overview

General Description.....	1-1
Check Your Items.....	1-1
ITZV6 Specifications.....	1-2
Motherboard Layout.....	1-3

Chapter 2 Hardware Installation

Set Jumpers.....	2-2
Clear CMOS.....	2-3
Install CPU.....	2-4
CPU Setting.....	2-5
CPU Type Selection.....	2-5
CPU Clock Frequency.....	2-6
Connectors.....	2-7
Panel Connector.....	2-7
Power Connector.....	2-7
Fan Connector.....	2-8
PS/2 Mouse & Keyboard Connectors.....	2-9
USB device Connector.....	2-9
Serial Device com1, VGA & Printer Connectors.....	2-10
Floppy drive Connector.....	2-10
IrDA Connector.....	2-11
IDE Hard Disk Connector.....	2-11
LAN Connector	2-12
Game/Audio & CD_IN Connectors.....	2-12
System Memory Installation.....	2-13
Install DIMM.....	2-14
Removing a Memory Module.....	2-14

Contents

Chapter 3 CMOS Setup Utility

CMOS Setup Main.....	3-1
Standard CMOS Setup.....	3-3
Advanced BIOS Features.....	3-6
Advanced Chipset Features.....	3-9
Integrated Peripherals.....	3-11
Power Management Setup.....	3-15
Load Fail-Safe Defaults.....	3-17
Load Optimized Defaults.....	3-18
Set Supervisor / User Password.....	3-19
Save & Exit Setup.....	3-20
Exit Without Saving.....	3-20

Chapter 4 Software Utility

Installing Interface.....	4-1
Installing Driver Location.....	4-2
Installing ADOBE Acrobat Read Driver.....	4-2

Copyright

Copyright 2000 by this company. All rights reserved.

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language in any form or by any means, electronic, mechanical, magnetic, optical, manual or otherwise, without the prior written consent of the copyright holders.

Notice

The contents of this publication are subject to change. This company reserves the right to alter the contents of this publication at any time and without notice. The contents of this publication may contain inaccuracies or typographical errors and is supplied for informational use only.

Intel and Pentium are registered trademarks of Intel Corporation.

OS/2 and IBM are registered trademarks of International Business Machines.

Windows and MS-DOS are registered trademarks of Microsoft Corporation.

AWARD is a registered trademark of Award Software Inc.

Other brand, corporate, and product names may or may not be registered trademarks or copyright of their respective companies.

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.

Chapter 1

Overview

General Description

Thanks for purchasing **EUPA ITZV6 Socket 370** motherboard. **ITZV6** is based on Intel 810 chipset -- 82810(GMCH) & 82801AA(ICH) which was for Celeron TM (PPGA) and Copperminer (FC-PGA) Socket 370 processors. The product integrates 2D/3D graphics accelerator. It design 1 DIMM supporting 256MB system memory with PC 100. Also it employs AC ' 97 system, Ultra DMA 33/66 function, dual USB connectors and PCI IDE controller. This user's manual contains all the information and features that show you how to control **ITZV6** motherboard. Please take a moment to familiarize yourself with the design and organization of this manual.

Check Your Items

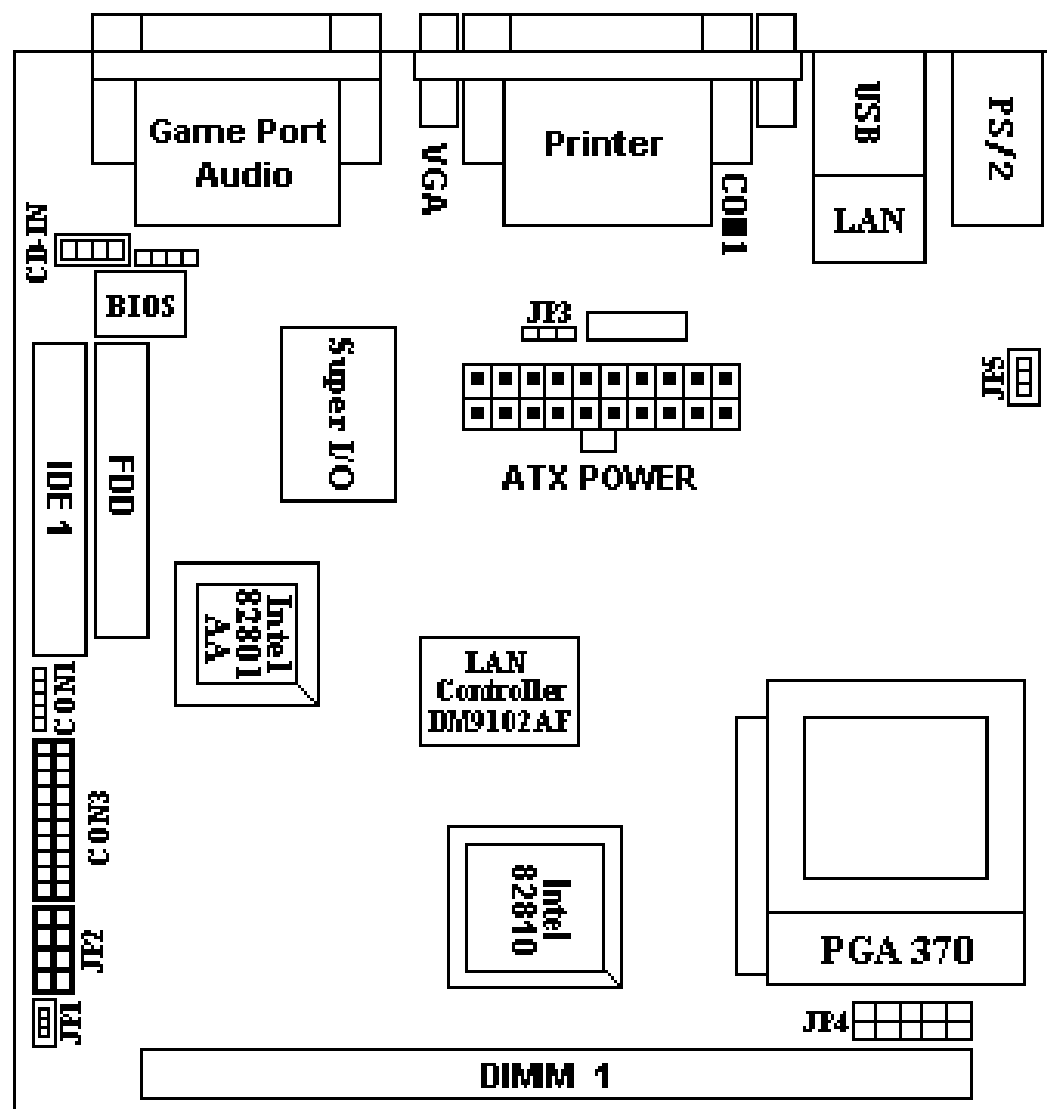
This **ITZV6** motherboard package contains the following items. Please inspect the package contents and confirm that everything is there. If anything is missing or damaged, call your vendor for instructions before operating.

The Package includes:

- ☞ **One ITZV6 motherboard**
- ☞ **One Floppy Interface Cable**
- ☞ **One IDE Interface Cable**
- ☞ **One Motherboard Resource CD**
- ☞ **One User's Manual**

ITZV6 Specifications:

Form Factor	FLEX-ATX
Board Size	17.0cm x 17.0cm
CPU	Supports Socket 370 Celeron(PPGA), Cu(FC-PGA) and further CPUs Supports FSB 66/100MHz
System Memory	DIMM 168-pin x 1, SDRAM maximum 256MB with PC100 SDRAM
Chipset	Intel 82810 GMCH Intel 82801AA ICH Intel 82802AB
Sound Function	ON board AC'97 system, Crystal4299 Audio Codec
Graphic	2D/3D graphic accelerator i752 Built in 82810 GMCH
I/O Interface	2 USB Ports 1 Audio Port (MIDI / game port, Line-in, Line-out, Mic-in) 1 LAN Port (10M / 100M auto detect) 1 PS/2 Mouse, 1 PS/2 Keyboard 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 drives 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 ICH Lithium(CR-2032) battery
Power Connector	ATX
Power On Function	Keyboard / Mouse power on
Other Key Feature	Monitor voltage and system environment temperature Wake on Modem
BIOS	Award BIOS ITE Hardware Monitor Supports virus warning Supports Flash / Upgrade BIOS functions
LED Indicator	System Power LED HDD activity LED



Jumpers

- | | | |
|----|-----|----------------------------|
| 1. | JP3 | Clear CMOS |
| 2. | JP2 | Select CPU clock frequency |
| 3. | JP4 | Select CPU type |

Expansion Slots

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

Connectors

- | | | |
|-----|-------------|--------------------------------------|
| 1. | PS/2 KB | PS/2 Keyboard Connector |
| 2. | PS/2 Mouse | PS/2 Mouse Connector |
| 3. | LAN | LAN Connector |
| 4. | USB | Universal Serial Bus Port1 and Port2 |
| 5. | Printer | Printer (Parallel) Port Connector |
| 6. | ATX Power | ATX Power Connector |
| 7. | JP1 | System Fan Connector |
| 8. | JP5 | CPU Fan Connector |
| 9. | Floppy | Floppy Drive Connector |
| 10. | IDE 1 | Primary IDE Connector |
| 11. | CON 1 | IrDA Connector |
| 12. | CON 2 | Audio CD-IN Connector |
| 13. | Panel(CON3) | |
-
- | | |
|-----------|--------------------------|
| - 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.

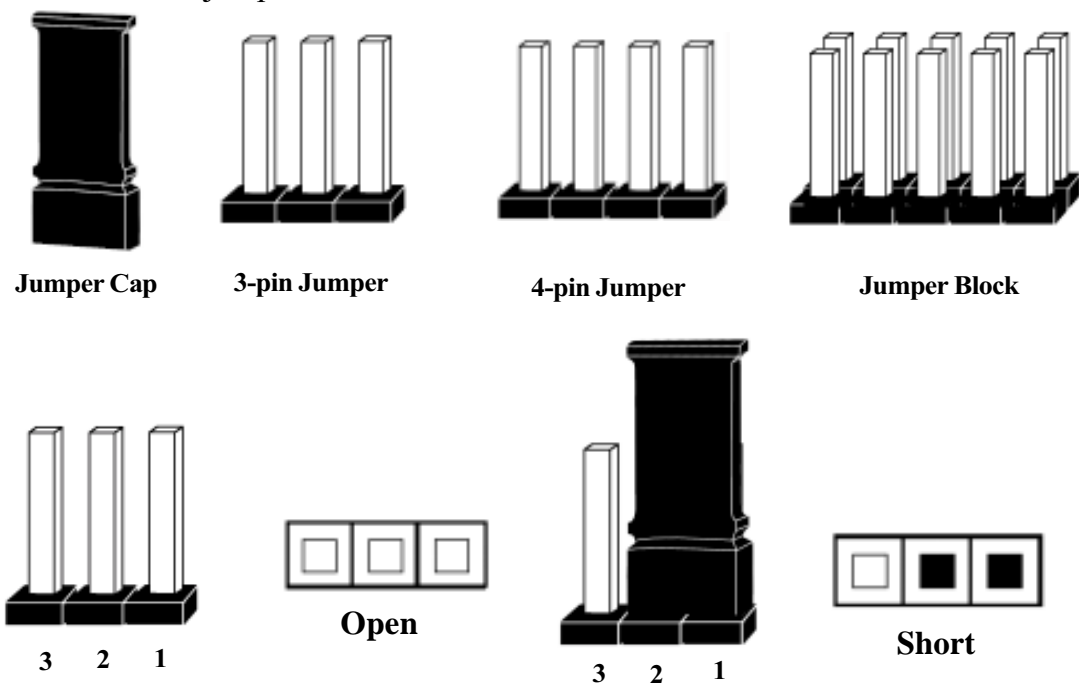
Cautions: **Protecting Against Electrostatic Discharge**

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:

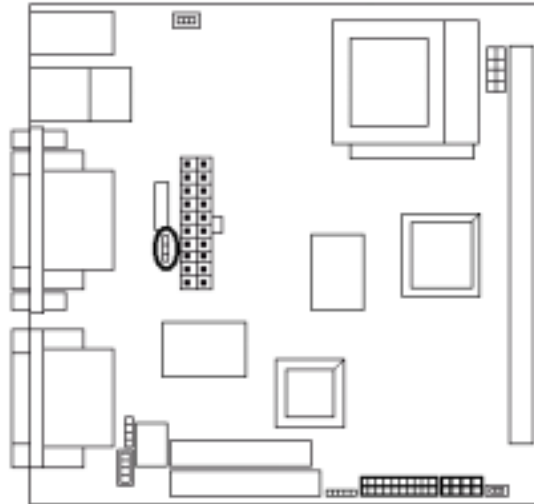
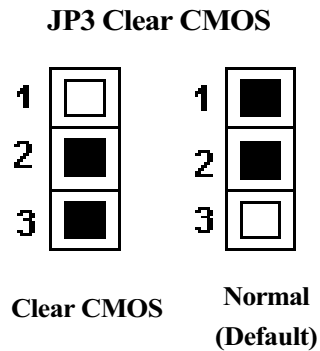


Note:

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

Clear CMOS: JP3



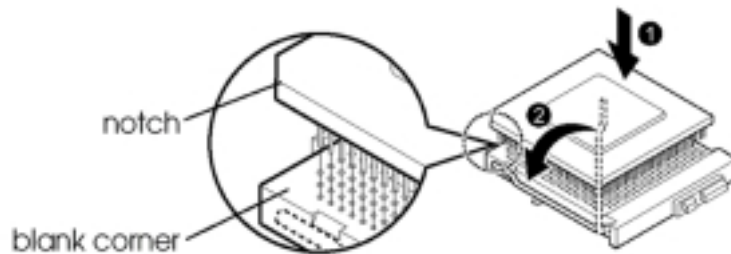
To Clear CMOS, please follow the steps below:

1. Power off the system and unplug the chassis AC power cord.
2. Short JP3 at pin 2-3 for few seconds.
3. Set JP3 back to its Normal position at pin1-2
4. Plug the AC power cord to the chassis.
5. Power on the system and load the BIOS set up default.

Install CPU

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

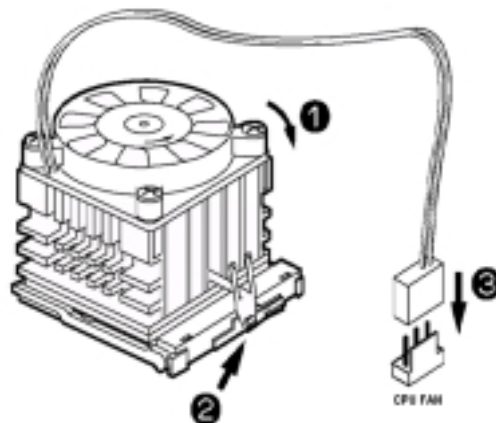
- 1) Locate the new processor you are installing over the socket so that the notched corner on the processor (pin 1) can be aligned with the blank corner on the socket. Then gently push the processor straight into the socket until its pins are completely inserted into the holes of the socket.



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.

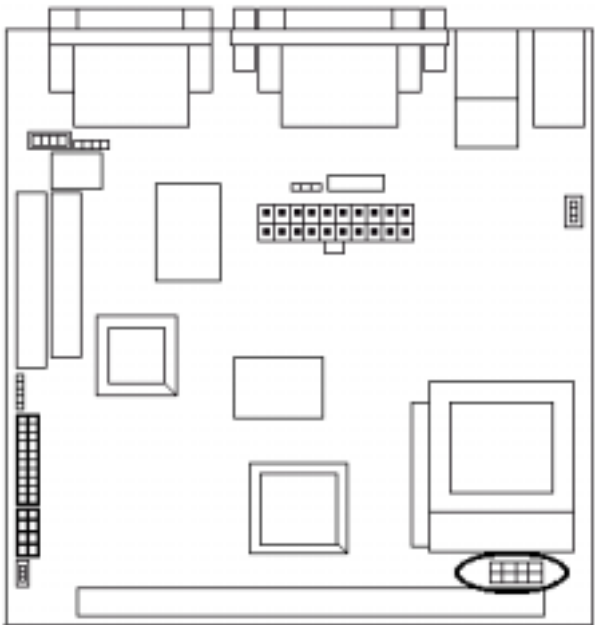


Hardware Installation

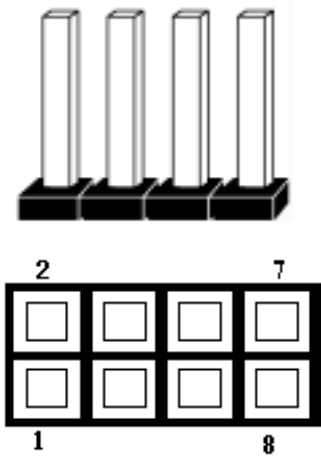
CPU Setting

After installing the CPU, you must set the clock selection jumpers to match the frequency of the CPU. Find the jumper labeled **JP2**, set it (from pin 1 to 8, we call them as FS0, FS1, FS2, FS3) according to the figure below and table for CPU clock frequency. **JP4** is used for CPU Type Selection.

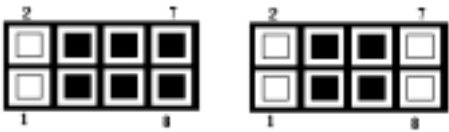
1 CPU Type Selection: JP4



JP4
CPU Type Selection



Celeron

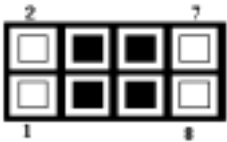


66MHz

100MHz

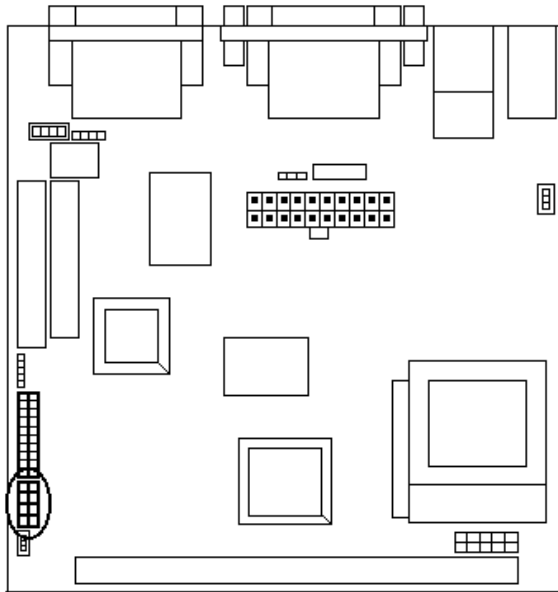
CPU TYPE	JP4 PIN	
	66MHz	100MHz
Celeron	3-4 5-6 7-8	3-4 5-6
Coppermine		3-4 5-6

Coppermine

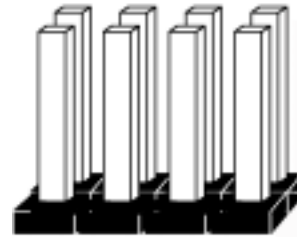


100MHz

2 CPU Clock Frequency: JP2

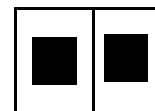
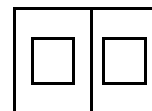


JP2



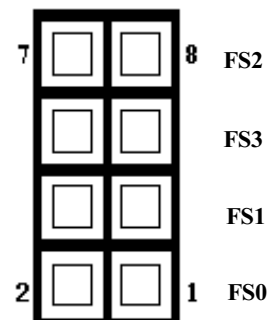
OPEN (O)

SHORT (S)



CPU (MHz)	PCICLK (MHz)	JP2 PIN			
		FS0 (1-2)	FS1 (3-4)	FS2 (7-8)	FS3 (5-6)
66.80	33.40	S	S	S	S
68.00	34.00	O	S	S	S
72.50	36.25	O	O	O	O
100.30	33.43	S	O	S	S
103.00	34.33	O	O	S	S
118.00	39.33	S	O	S	O
124.00	41.33	O	O	S	O
133.70	44.57	S	S	O	O
137.00	45.67	O	S	O	O
140.00	46.67	O	S	S	O
150.00	50.00	S	O	O	O

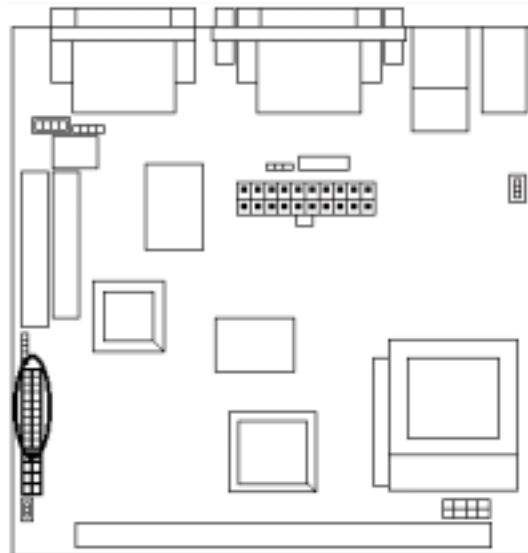
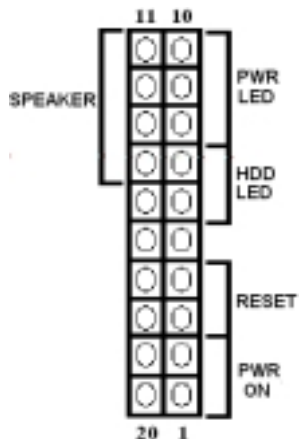
JP2



Hardware Installation

Connectors:

1. Panel Connector:



- POWER LED
- SPEAKER
- HDD LED
- RESET
- PWR ON

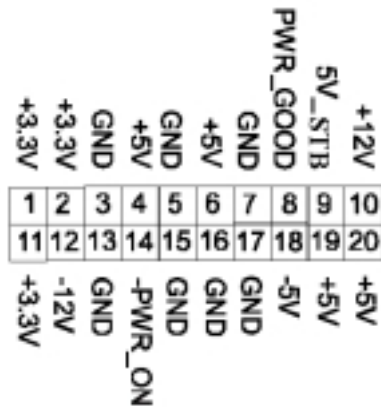
- ATX Power LED (3-pins)
- Chassis Speaker (4-pins)
- HDD LED (2-pins)
- Reset Switch (2pins)
- ATX Power Switch (2pins)

2. Power Connector

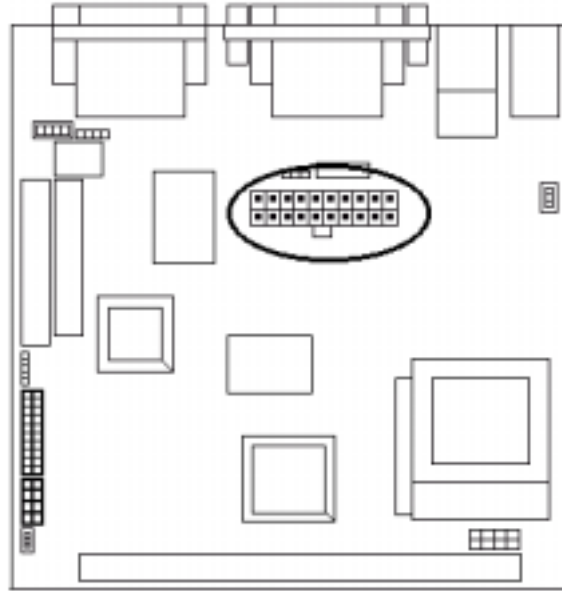
Connect the 20-pin ATX power supply cable to this power connector. Make sure the right plug-in direction and the power supply is off before connecting or disconnecting the power cable.

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.

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.

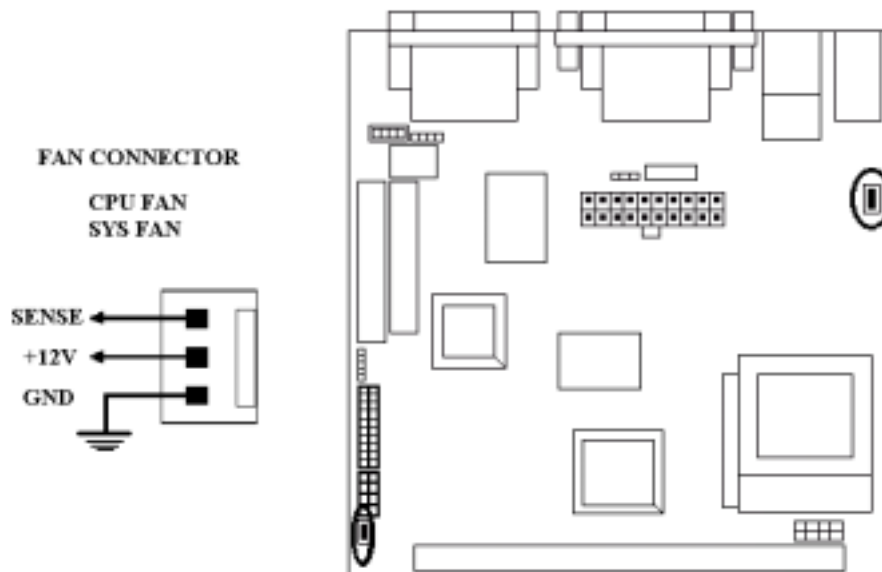


ATX Power Connector



3. Fan Connector

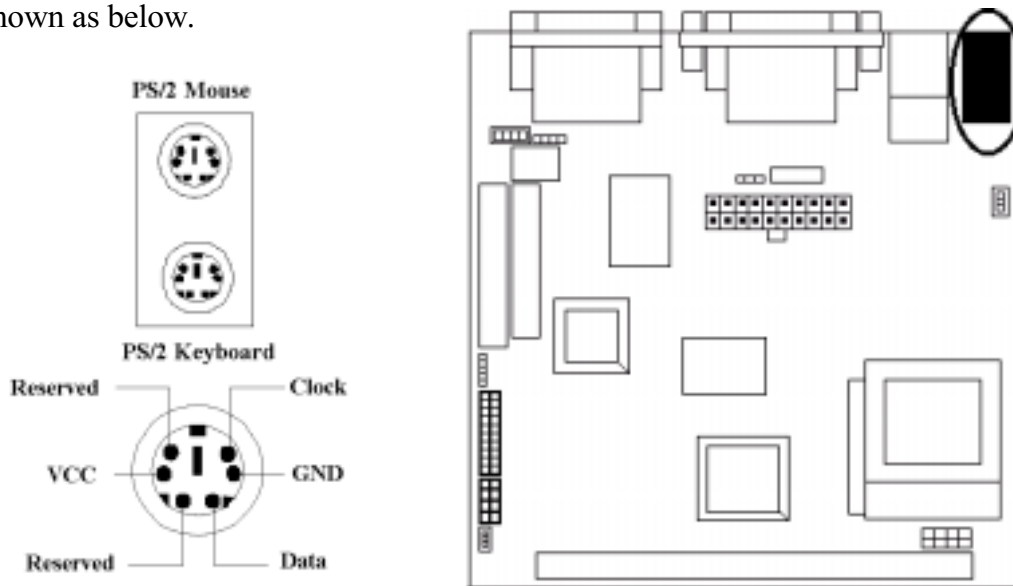
Connect the CPU and System fan cables to the fan connectors shown below.
The fan connectors are marked as: **SYS FAN & CPU FAN** on the motherboard.



Hardware Installation

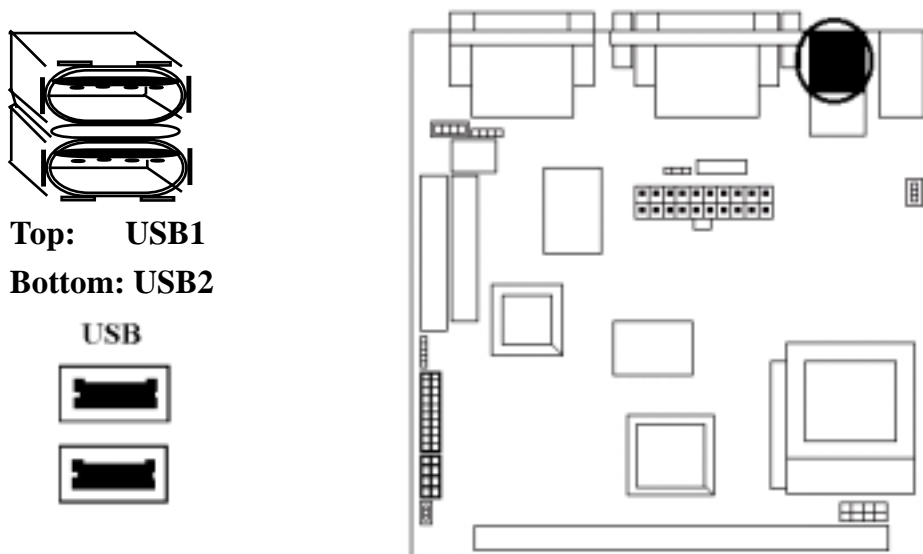
4. PS/2 Mouse and Keyboard Connector

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



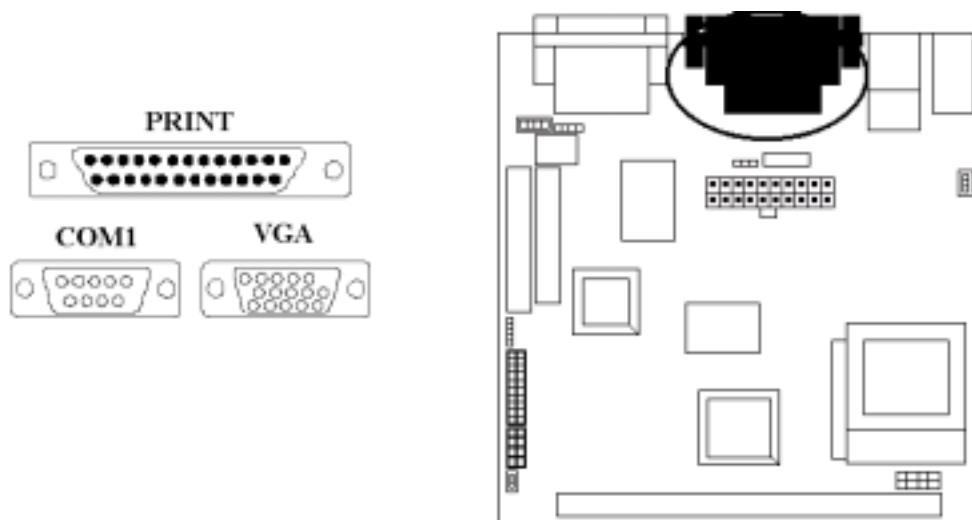
5. USB Device Connector

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



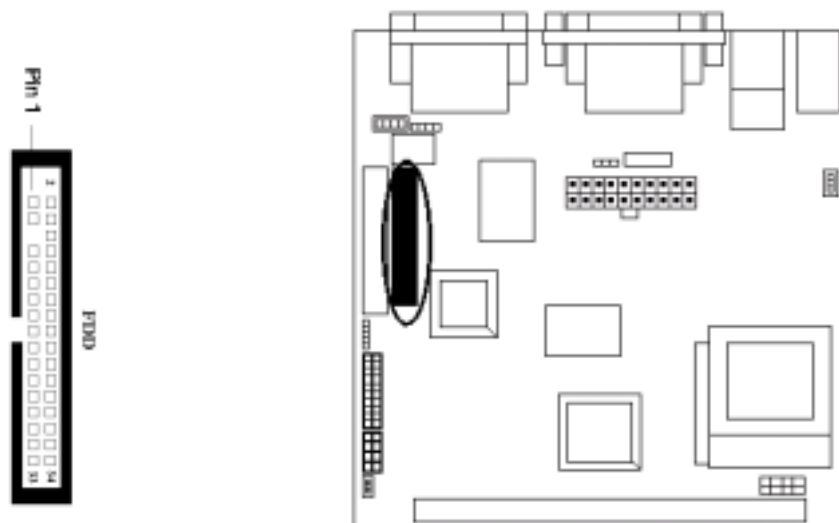
6. Serial Device COM1, VGA and Printer Connectors

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

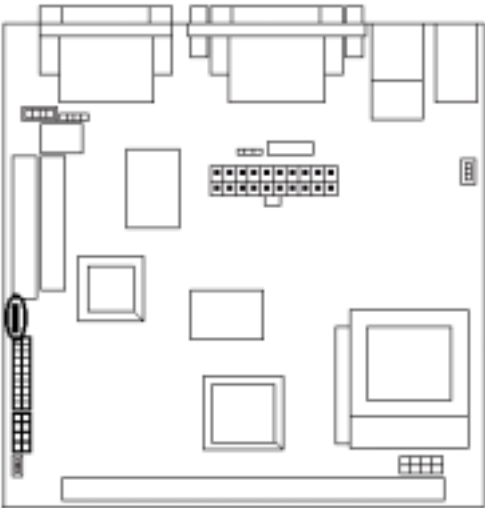
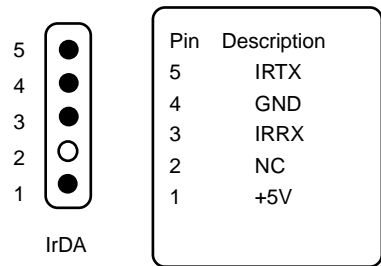
Connect the floppy drive cable to the onboard 34-pin floppy drive connector marked as **FDD**.



Hardware Installation

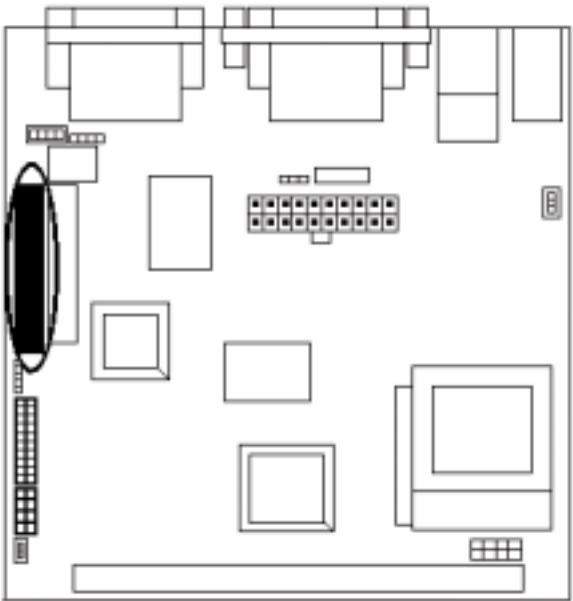
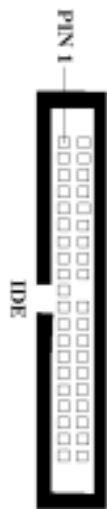
8. IrDA Connector

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



9. IDE Hard Disk Connector

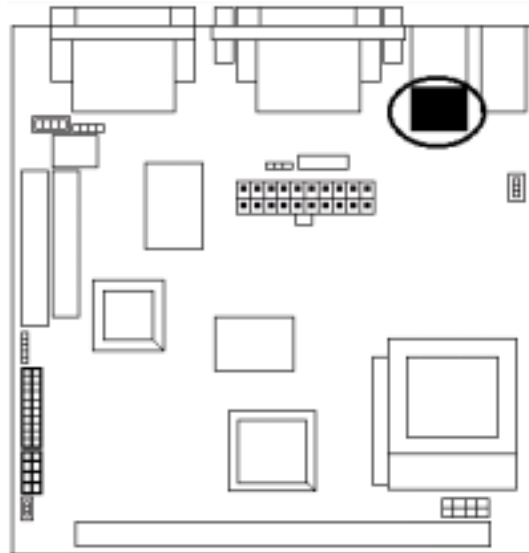
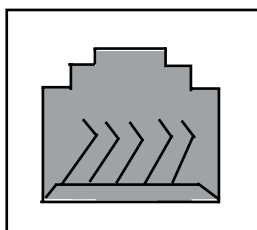
Connect your IDE devices to the onboard 40-pin IDE connectors marked as **IDE1** .



10. LAN Connector

Connect your **LAN** port to the onboard LAN connector shown as below.

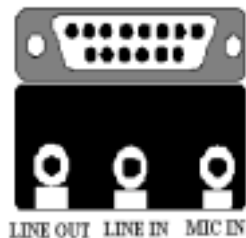
LAN Connector



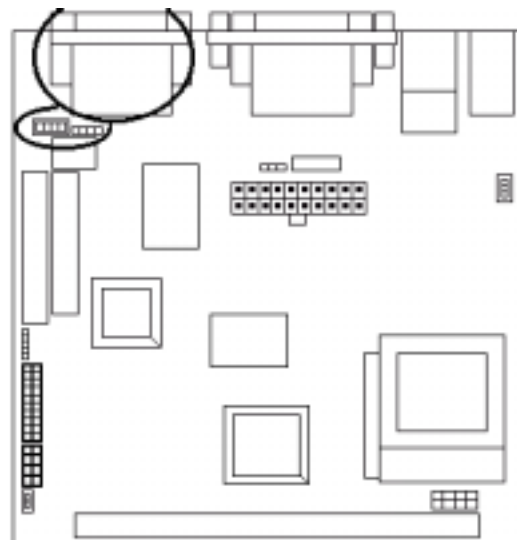
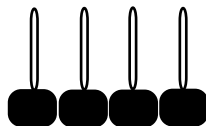
11. Game / Audio Connector and CD_IN Connectors

The 15-pin female **Game/Audio** connector allows you to connect game joystick or game pads for playing games. Connect MIDI devices for playing or editing audio. The CD connector onboard marked as **CD-IN** is for CD-ROM connection.

JOYSTICK



**CD-IN
CON 2**

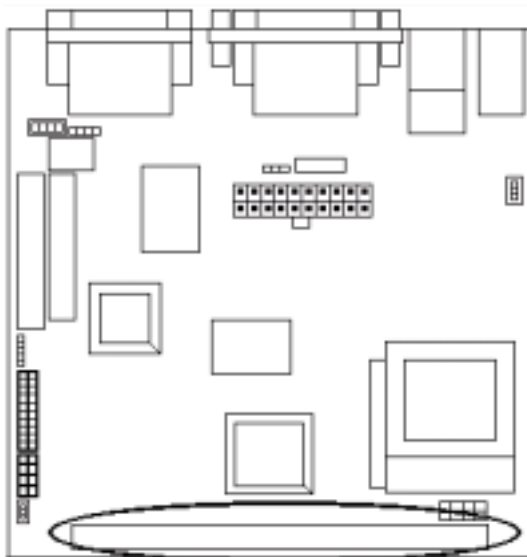


Hardware Installation

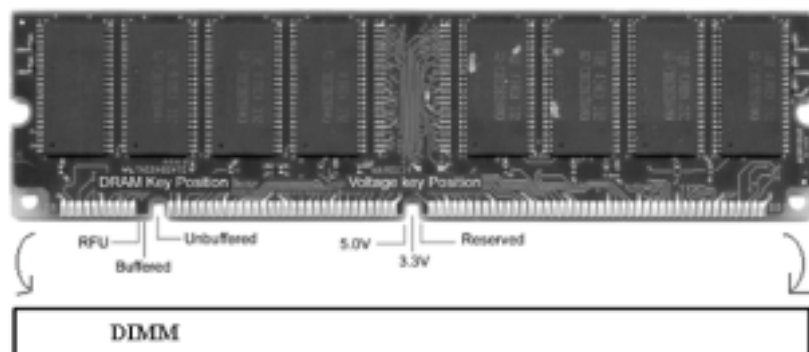
System Memory Installation

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

- ◆ To ensure reliability, it is recommended to use PC 100 SDRAM for your high clock SDRAM performance requirement.
- ◆ DIMM Sizes supported: **8MB, 16MB, 32MB, 64MB, 128MB, 256MB.**

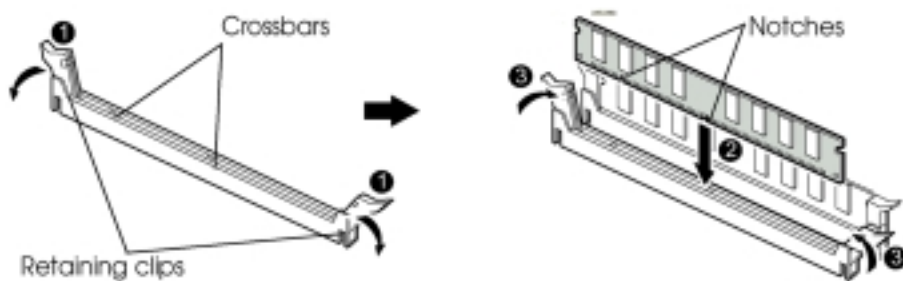


There are 1x168-pin DIMM slot that allow you to install the system memory max up to 256MB SDRAM.



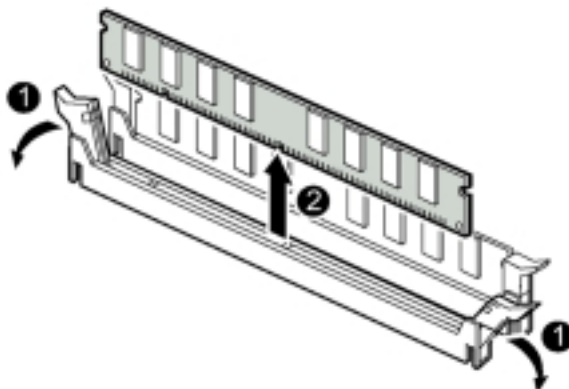
1 Install DIMM

- 1) Locate the DIMM socket on the motherboard.
- 2) Orient a DIMM to the socket so that 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 module, press the retaining clips outward simultaneously until the DIMM disengages from the socket and then carefully remove the DIMM from the socket.



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	Load Fail-Safe Defaults
■ Advanced BIOS Features	Load Optimized Defaults
■ Advanced Chipset Features	Set Supervisor Password
■ Integrated Peripherals	Set User Password
■ Power Management Setup	Save & Exit Setup
	Exit Without Saving
Esc : Quit ↑↓←→: Select Item	
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.

CMOS Setup Utility

Standard CMOS Setup


The items in Standard CMOS Setup Menu are divided in 10 catagories. 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):	Fri, May 19 2000	Item Help
Time (hh:mm:ss):	16:19:20	
» IDE Primary Master	Press Enter 3249MB	Menu Level » Change the day, month, year and century
» IDE Primary Slave	Press Enter None	
Drive A	1.44M. 3.5in	
Drive B	None	
Video	EGA / VGA	
Halt On	All, But Keyboard	
Base Memory	640K	
Extended Memory	63488K	
Total Memory	64512K	
↑↓←→: Move 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

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

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

IDE HDD Auto-Detection	<u>Press Enter</u>	Item Help
IDE Primary Master	Auto	Menu Level » Change the day, month, year and century
Access Mode	Auto	
Capacity	3249MB	
Cylinder	6296	
Head	16	
Precomp	65535	
Landing Zone	6295	
Sector	63	
↑↓←→: Move Enter: Select +/-/PU/PD: Value F10: Save Esc:Exit F1: General Help F5 : Previous Values F6 : Fail-safe defaults F7 : Optimized Defaults		

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

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.

Note: PRECOMP=65535 means NONE!

The optional are: None, **Auto (Default)**, Manual

The following options are selectable onlyif the 'IDE Primary Master' item is set to 'Manual':		
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

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

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

Advanced BIOS Features

Virus Warning	Disabled	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.
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	LS120	
Boot other device	Enabled	
Swap Floppy Drive	Disabled	
Boot Up Floppy Seek	Enabled	
Boot Up Numlock Status	On	
Gate A20 Option	Fast	
Typematic Rate Setting	Disabled	
x Typematic Rate (Chars/Sec)	6	
x Typematic Delay (Msec)	250	
Security Option	Setup	
OS Select For DRAM > 64MB	Non-OS2	
Report No FDD For WIN 95	No	
↑↓←→: Move 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 warming 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

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 120 (Third Default)**, HDD-1/2/3, ZIP 100, SCSI, CDROM, LAN.

Boot Other Device

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

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, **Fast (Default)**

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

Report No FDD for WIN 95

Whether report no FDD for WIN 95 or not.

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

CMOS Setup Utility

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 was being lost while controlling your system.

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

SDRAM CAS Latency Time	3	<div>Item Help</div> <div>Menu Level ▶▶</div>
SDRAM Cycle Time Trs/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	
↑↓←→: Move Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

SDRAM CAS Latency Time

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing.

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

SDRAM Cycle Time Trs/Trc

Select the number of SCLKs for an access.

The optional are: **6/8 (Default)**, 5/7

SDRAM RAS-to-CAS Delay

When synchronous DRAM is installed in the system, this field lets you insert a timing delay between the CAS and RAS strobe signals, used DRAM is written to, read from, or refreshed.

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

SDRAM RAS Precharge Time

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.

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

System BIOS Cacheable

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

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

Video BIOS Cacheable

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

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

Memory Hole At 15M - 16M

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

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

CPU Latency Timer

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

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

Delayed Transaction

Select Enabled to support compliance with PCI specification version 2.1.

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

CMOS Setup Utility

Delayed Transaction

Select Enabled to support compliance with PCI specification version 2.1.

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

On-chip Video Window Size

Select the on-chip video window size for VGA drive use.

The optional are: Enabled, 32MB, **64MB(Default)**

Use VGA BIOS in VBU Block

Let you determine whether use VGA BIOS in VBU Block or not.

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

Integrated Peripherals

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

On-Chip IDE	Enabled	Item Help Menu Level »
IDE Master PIO	Auto	
IDE Slave PIO	Auto	
IDE Master UDMA	Auto	
IDE Slave UDMA	Auto	
USB Controller	Enabled	
USB Keyboard Support	Disabled	
AC97 Audio	Auto	
IDE HDD Block Mode	Enabled	
KBC input clock	8MHz	
Power On function		
KB Power ON Password	Enter	
Hot Key Power On	Ctrl-F1	
Onboard FDC Controller	Enabled	
Onboard Serial Port1	3F8/IRQ4	
UART Mode Select		
UR2 Duplex mode	Half	
Onboard Parallel Port		
Parallel Port Mode		
ECP Mode Use DMA	3	
Game Port Address	201	
Midi Port Address	330	
Midi Port IRQ	10	
↑↓←→: Move 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

The integrated peripheral controller contains an IDE interface with support IDE channel. Select Enabled to activate the channel.

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

IDE Master / Slave PIO

The two IDE PIO fields let you set a PIO mode for each of the two IDE devices that IDE face support onboard. Mode 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

IDE Master / Slave UDMA

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

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

USB Controller

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

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

USB Keyboard Support

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

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

AC 97 Audio

This item allows you to decide to enable/ disable the 810 chipset family to support AC 97 audio.

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

CMOS Setup Utility

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.

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

KBC input clock

Set the KBC input clock.

The optional are: **8MHz (Default)**, 12MHz

POWER ON Function

Set the power on function mode for power on.

The optional are: Password, Hot Key, Mouse Move / Click, **Any Key(Default)**, BUTTON ONLY, Keyboard 98

KB Power ON Password

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

Hot Key Power ON

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

The optional are: Ctrl-F1(**Default**), Ctrl-F12

Onboard FDC Controller

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

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

Onboard Serial Port

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

The optional are: Auto, Disabled, **3F8 / IRQ4(Port 1 Default)**, **2F8 / IRQ3(Port 2 Default)**, 3E8 / IRQ4, 2E8 / IRQ3

UART Mode Select

Let you choose UART Mode.

The optional are: **Normal(Default)**, IrDA, ASKIR, SCR

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

Parallel Port Mode

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

The optional are: **SPP(Default)**, EPP, ECP, ECP+EPP

Game Port Address

Select an address for game port.

The optional are: Disabled, **201(Default)**, 209

Midi Port Address

Select an address for Midi Port.

The optional are: Disabled, **330 (Default)**, 300

Midi Port IRQ

Select a corresponding interrupt for Midi Port.

The optional are: 5, **10(Default)**

CMOS Setup Utility

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.

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

Power Management	User Define	Item Help
Video Off Method	DPMS	
Video Off In Suspend	Yes	Menu Level »
Suspend Type	Stop Grant	
Suspend Mode	Disabled	
HDD Power Down	Disabled	
Soft-Off by PWR-BTTN	Instant-Off	
Wake On by Ring	Enabled	
** Reload Global Timer Events **		
Primary IDE 0	Disabled	
Primary IDE 1	Disabled	
FDD, COM, LPT Port	Disabled	
PCI PIRQ [A-D]#	Disabled	
↑↓←→: Move Enter: Select F5 : Previous Values +/-/PU/PD: Value F10: Save F6 : Fail-safe defaults Esc:Exit F1: General Help F7 : Optimized Defaults		

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 1hr. except for HDD Power Down which ranges from 1min. to 15min. and disable. The optional are: **User Define(Default)**, Min Saving, Max Saving

Video Off Method

Determines the manner in which the monitor is blanded. System turns off vertical and horizontal synchronization ports and writes blanks to the video buffer. Select this option if your monitor supports. System only writes blanks to the video buffer.

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

Video Off In Suspend

Setup whether video off in suspend or not.

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

Suspend Type

This item lets you select a method of global system suspend.

The optional are: **Stop Grant(Default)**, PwrOn Suspend

Suspend Mode

After the selected period of system inactivity, all devices except the CPU shut off.

The optional are: 1/2/4/8/12/20/30/40Min, 1 Hour, **Disabled (Default)**

HDD Power Down

After the selected period of drive inactivity, the hard disk drive powers down while all other devices remain active.

The optional are: 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15 Min, **Disabled(Default)**

Soft-Off by PWR-BTTN

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.

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

Wake On by Ring

Setup whether Wake on by ring or not.

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

Primary IDE 0 / IDE 1

This option allows you determine whether enable Primary IDE 0/IDE 1 or not.

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

CMOS Setup Utility

FDD,COM,LPT Port

This option allows you set whether enable FDD, COM, LPT Port or not.

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

PCI PIRQ[A-D]#

This option lets you set PCI PIRQ [A-D]#.

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

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
■ Integrate	Load Fail - Safe Defaults (Y / N)? N sord
■ Power Management Setup	Set User Passoword
■ PnP / PCI Configuration	Save & Exit Setup
■ PC Health Status	Exit Without Saving
Esc : Quit	↑↓←→: Select Item
F10 : Save & Exit Setup	
Abandon all datas	

■ 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 M	Load Optimized Defaults (Y / N)?
■ PnP / PCI Configuration	Save & Exit Setup
■ PC Health Status	Exit Without Saving
Esc : Quit ↑↓←→: Select Item	
F10 : Save & Exit Setup	
Abandon all datas	

CMOS Setup Utility

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 JP3 at Pin 2-3 for a few seconds to clear CMOS.
 - iii. Set the JP3 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.

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.

Installing Interface

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



Choose the language and interface you need.

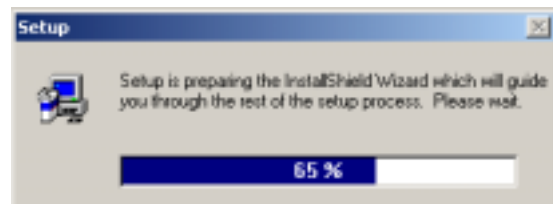
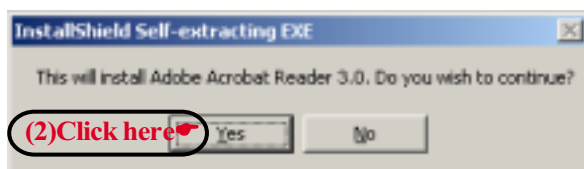
Installing Driver Location:

Insert CD Driver to the CD-ROM, driver runs by itself, and appear the following interface, please refer to the procedure, then finish installing. ITZV6 provides you the following Installing Driver:

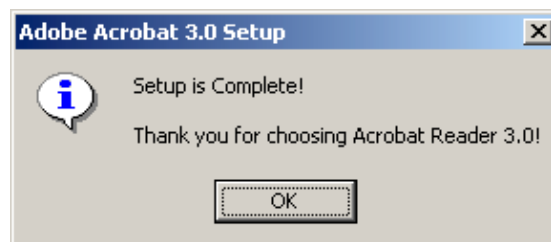
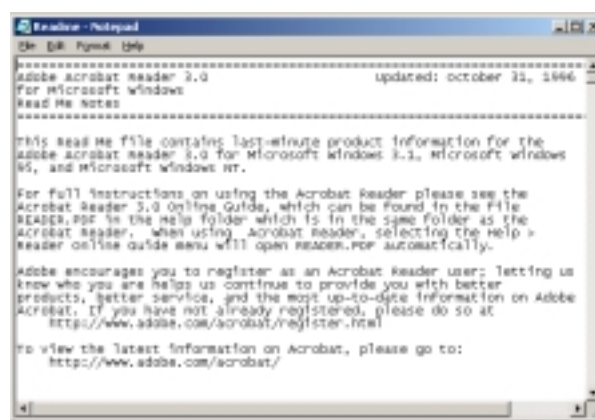
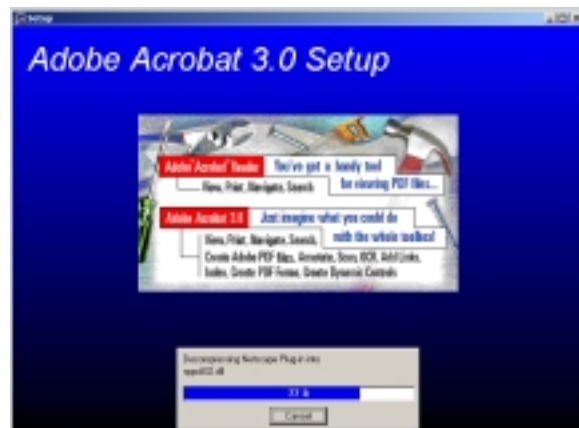
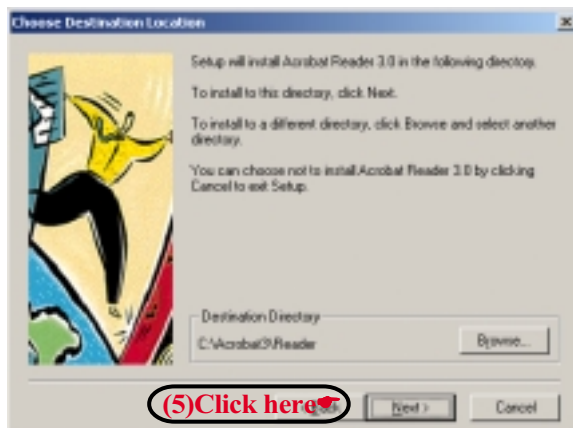
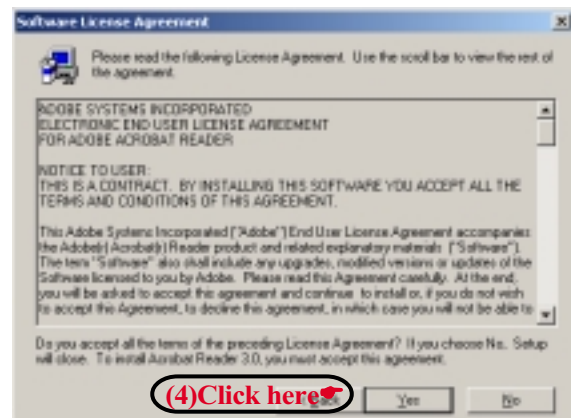
Intel Video Driver Location :	/VGA DRIVER
Intel 810 Chipset Driver Location:	/CHIPSET
IDE DMA66 Driver Location:	/IDE
Audio Driver Location:	/AUDIO
LAN Driver Location:	/LAN

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