

V694

Socket -370 Mainboard

English Manual

VER.1.1 Second Edition

113000

Disclaimer

This manual has been written with great care, yet errors are unavoidable. We constantly improve our products with continuous R&D, and the contents of this manual shall thus be subject to changes without further notice.

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Cautions

We strongly recommend you to carefully read through this manual before installation. If you are not familiar with computers, please follow the instructions of the manufacturer when setting up all values for the mainboard to avoid any damage to the mainboard or system instability.

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CHAPTER 0. GUARDIAN SYSTEM

Guardian System: the superpower BIOS (All rights reserved)

[F9] → Uninstall	Press [F9] to uninstall Guardian System® if you want to disable this function or use the hard drive on another PC, uninstall Guardian System before doing so.
[F11] → Save	Press [F11] to save current changes on the fixed disk® Guardian System will overwrite all existing data. Verify all changes are correct before doing so.
[F12] → Undo	Press [F12] to undo saving® all new changes will be removed and previous data will be restored. Verify all changes are correct before doing so.

A : Attention

1. Guardian System currently supports ONLY FAT 32 fixed disk formats of Windows 95/98/SE/Me and Windows 2000, other fixed disk formats (*eg.*, NTFS of Windows NT) are not supported,
2. We recommend that you install the OS and Guardian System IDE driver before running Guardian System.
3. Guardian System will cause error detection for Primary IDE and Secondary IDE in Windows 95/98/98SE/Me and Windows 2000 (*ie.*, an exclamation mark in System Properties) and problems to CD-ROM use, it is thus necessary to install the Guardian System IDE driver.
4. Install Guardian System before installing any antivirus software.
5. Install the Guardian System IDE driver from the Installation CD after doing the Guardian System installation.

B : Before using Guardian System

1. Windows 98 and Windows Me need space on system drive (Drive C) for disk swapping, we recommend you to reserve approx. 800MB space for disk swapping.
2. To prevent data from occupying the dynamic virtual partition of Guardian System, we recommend you to save up data very often (press [F11]® Save) to update the data in the partition, in order to prevent an erroneous read/write of the master system (drive C).
[Make sure the system is correct before saving.]

When you forget to save up data and a system read/write error occurs under Windows 98 or Windows Me, simply reboot your system to DOS mode and run Scandisk to restore the disk. However, since DOS mode is unavailable from Windows 2000, please select

3. System Reboot and press [F12] ® Undo to restore the original system.
4. Computer viruses keep changing and damages computer systems at all channels. The Guardian System is your solution to restoring your system, which you built up by your continued efforts, so that you may work with your system immediately.
5. We recommend that you save system programs and data files in different partitions, so that your data files will be safe after you press [F12]® Undo to restore your system.

C : RUNNING THE GUARDIAN SYSTEM & FUNCTION

KEYS

1. Guardian System provides the easiest installation and user interfaces.
2. Start the computer and enter BIOS setup (press DEL when the system is starting), select Integrated Peripherals and locate **Guardian System Function**, and then set Guardian System Function to 'Enabled'.
3. Restart your system, and the following message will appear on the screen:
Are you sure you want to install Guardian System?
(1) Yes
(2) No
4. Push '1' to install Guardian System to your hard drive or '2' to skip installation.
5. The system will restart after the installation is completed. Before entering the system, the following prompts will appear on the screen:
6. **[F9] → Uninstall [F11] → Save [F12] → Undo**

Select an action or the system will run as usual in about 3 seconds.

[F9] → Uninstall	Press [F9] to uninstall Guardian System® if you want to disable this function or use a hard drive on another PC, uninstall Guardian System before doing so.
[F11] → Save	Press [F11] to save current changes on the fixed disk® Guardian System will overwrite all existing data. Verify all changes before doing so.
[F12] → Undo	Press [F12] to undo saving® all new changes will be removed and previous data will be restored. Verify all changes before doing so.

You may use the Supervisor Password in the BIOS Setup to protect your Guardian System from intrusion. Remember, you will need to enter the same password when you press 'F11' to save changes.

Chapter 1. Components List

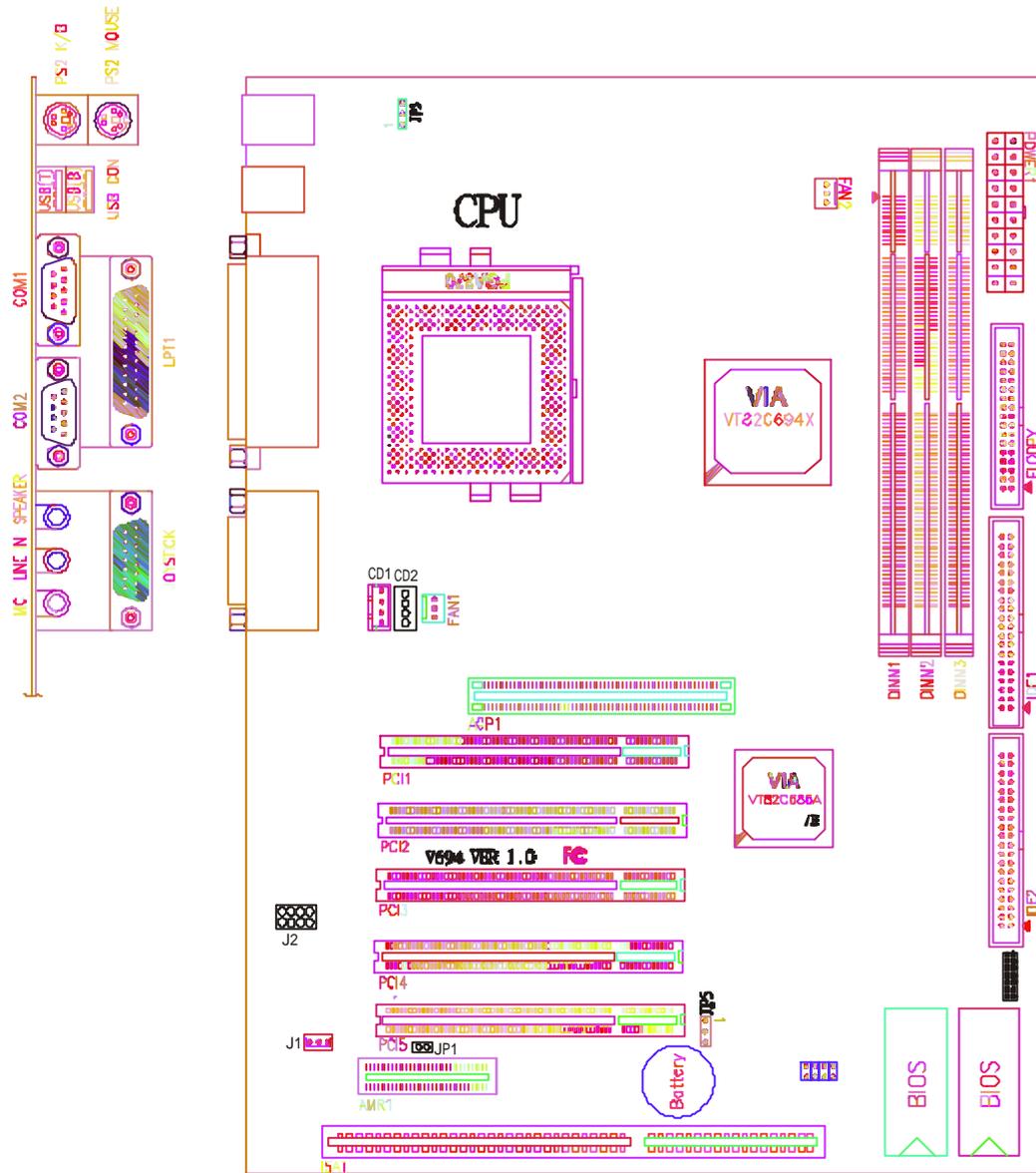
Make sure the package of the product is free from defects. In case of package defects or shortage of accessories, contact your local dealers.

- (1) One mainboard**
- (1) One IDE ribbon cable**
- (1) One floppy ribbon cable**
- (1) One drivers and shareware CD**
- (1) One user's manual**

Chapter 2. V694 Features

Specifications	V694 uses a 4-layer circuit board and builds on an ATX form factor with a dimension at 24.4 x 21.0 cm.
CPU	Socket 370 CUPs Intel Pentium®III 100/133MHz FSB, FC-PGA Intel Celeron™66MHz FSB, FC-PGA VIA Cyrix III processors
Chipset	VIA 694x + 686A(B) Controller
BIOS	Dual Bios E-Bios Boot (Optional)
CPU Clock	ICS 9248DF-39 66/100/133MHz System Bus Speeds
RAM	3 x 168 Pin DIMM supports PC66/PC100/PC133 SDRAM up to 1.5GB 3.3V SDRAM DIMM
Expansion slots	1 x AGP slot, 4X Mode and AGP 2.0 compliant 5 x PCI slots, 33MHz & PCI 2.2 Compliant 1 x ISA
Onboard IDE	2 IDE Bus Master [ATA33/66(686A Chips) ATA100 (686B Chips)] IDE interfaces supporting 4 ATAPI devices Supports PIO Mode 3, 4 IDE and ATAPI CD-ROM
Integrated Peripherals	1 x floppy socket for 2 floppy drives 360K, 720K, 1.2MB, 1.44MB and 2.88MB 1 x Parallel Port SPP/EPP/ECP Mode 2 x Serial Port COM A & COM B 4 x USB Channels A & B (B is optional) 1 x IR device connector
Integrated Sound Function	AC 97 CODEC Line-in/Line-out/Mic-in/CD-in/AUX-in/Game Port
PS/2 Ports	PS/2@keyboard and mouse ports
Hardware Monitoring	CPU/Power Supply/System Fans Speed Detection CPU/ Power Supply/System Temperature Detection System Voltage Auto Detection
Miscellaneous	WAL(Wake On LAN) Modem Ring On Keyboard overcurrent protection

V694 Layout

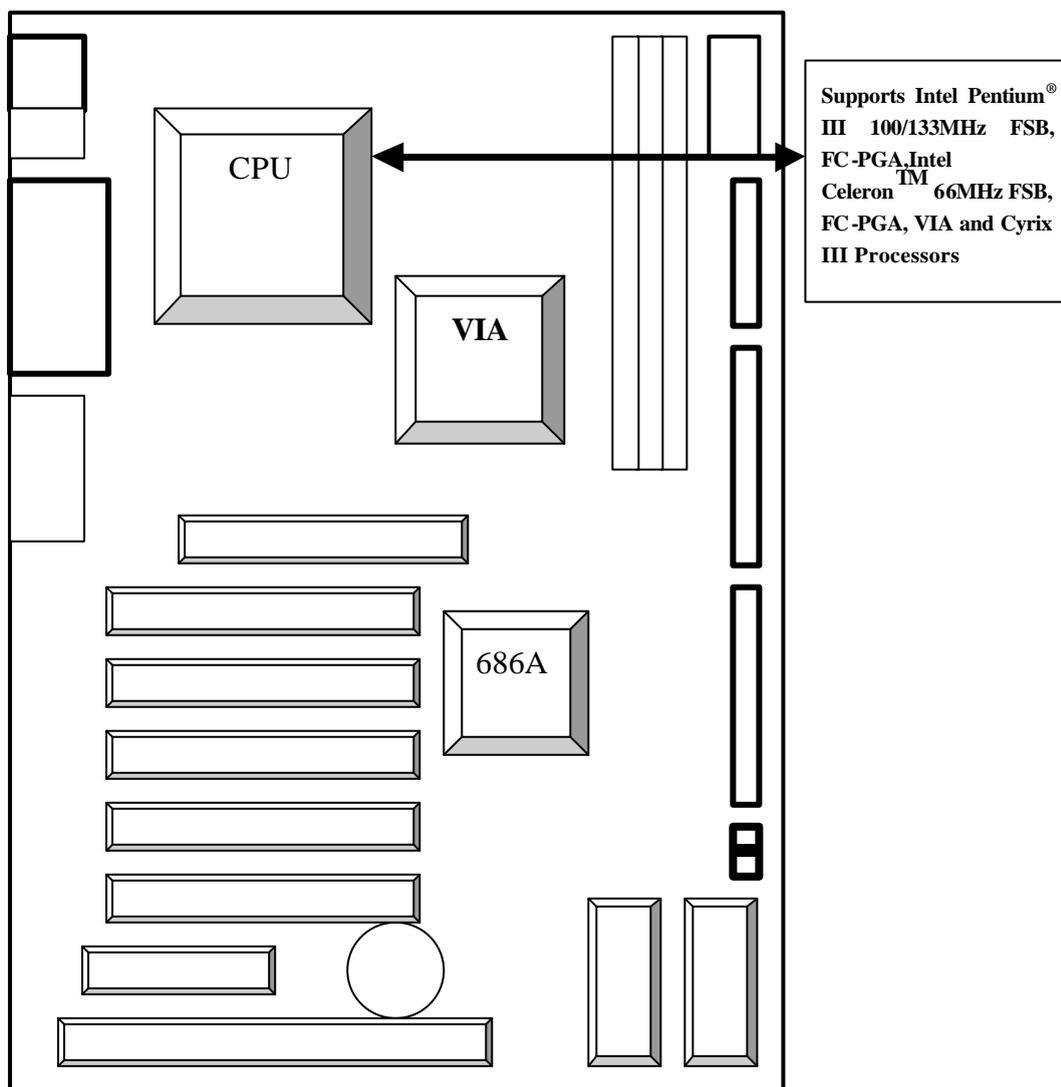


Chapter 3. V694 Hardware Component Setup

Socket-370 CPU Expansion Slots:

CPU Clock Setup

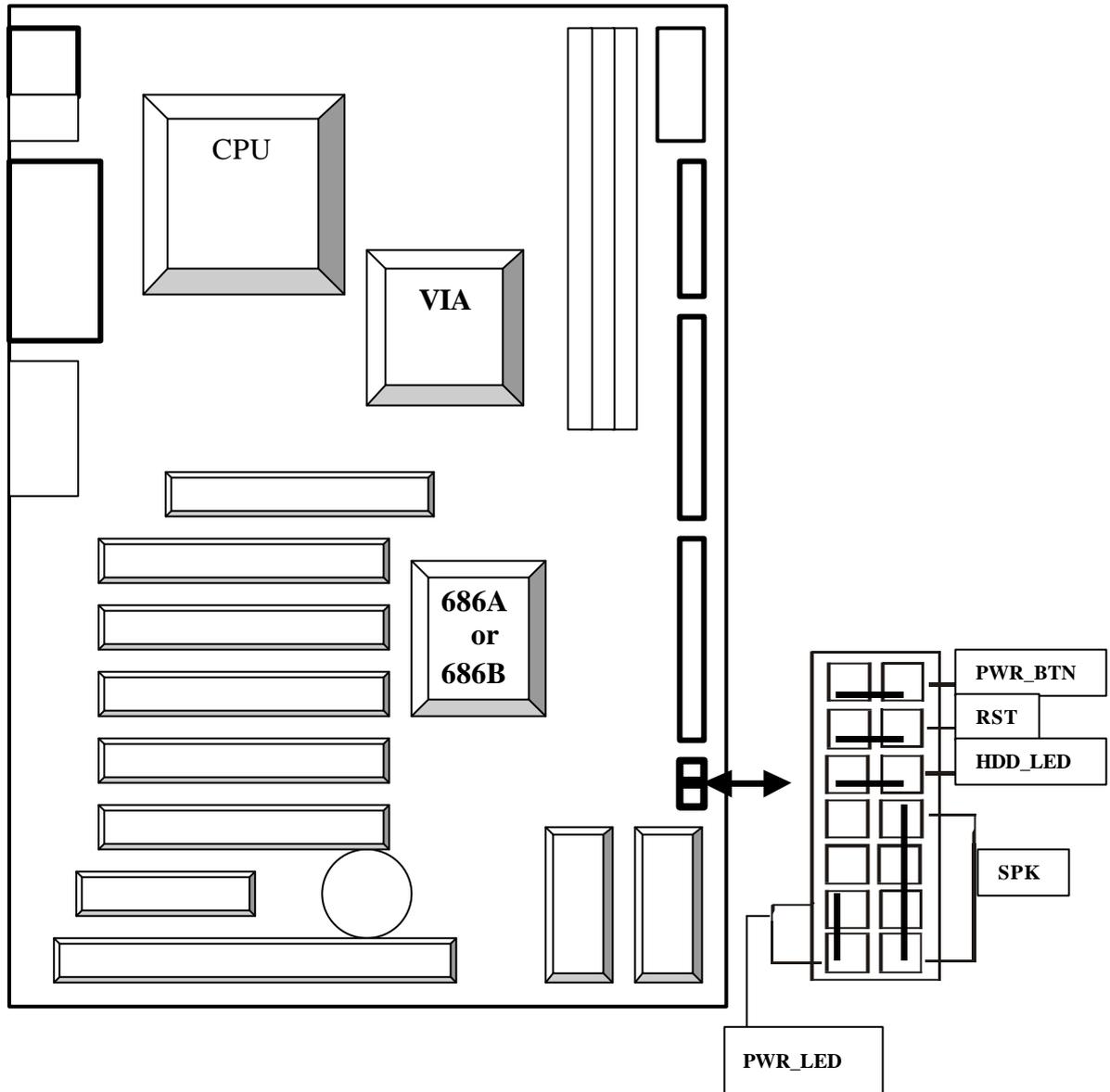
Both the CPU clock and factor setups are automatic, and you do not need to make any adjustments.



※ Attention:

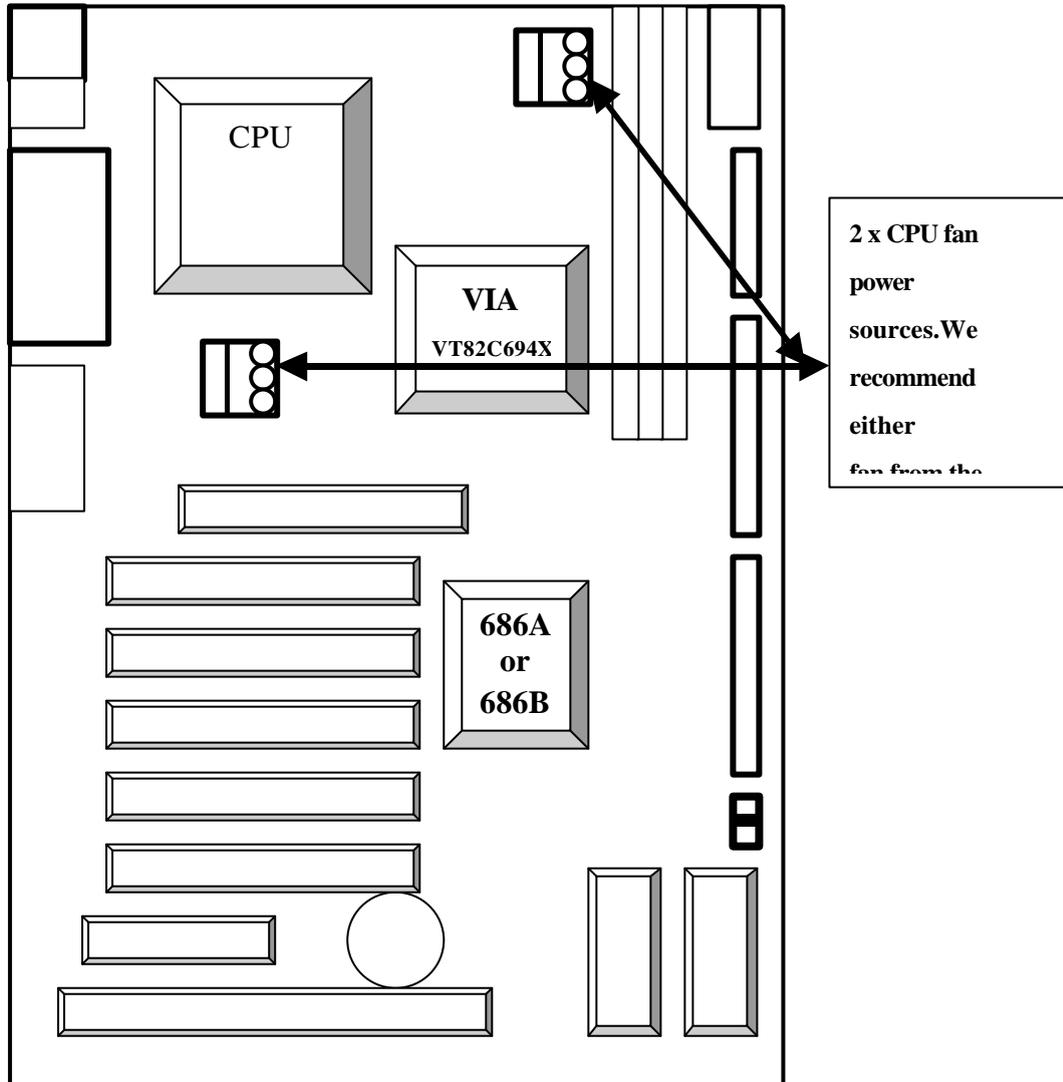
1. Please ask for technical support for CPU installation and setup.
2. Overclocking for Intel CPUs is available. Nonetheless, all consequences are the user's responsibility.
3. Enter BIOS Setup and change the FSB. Confer to P. 51. CPU FSB Setup.

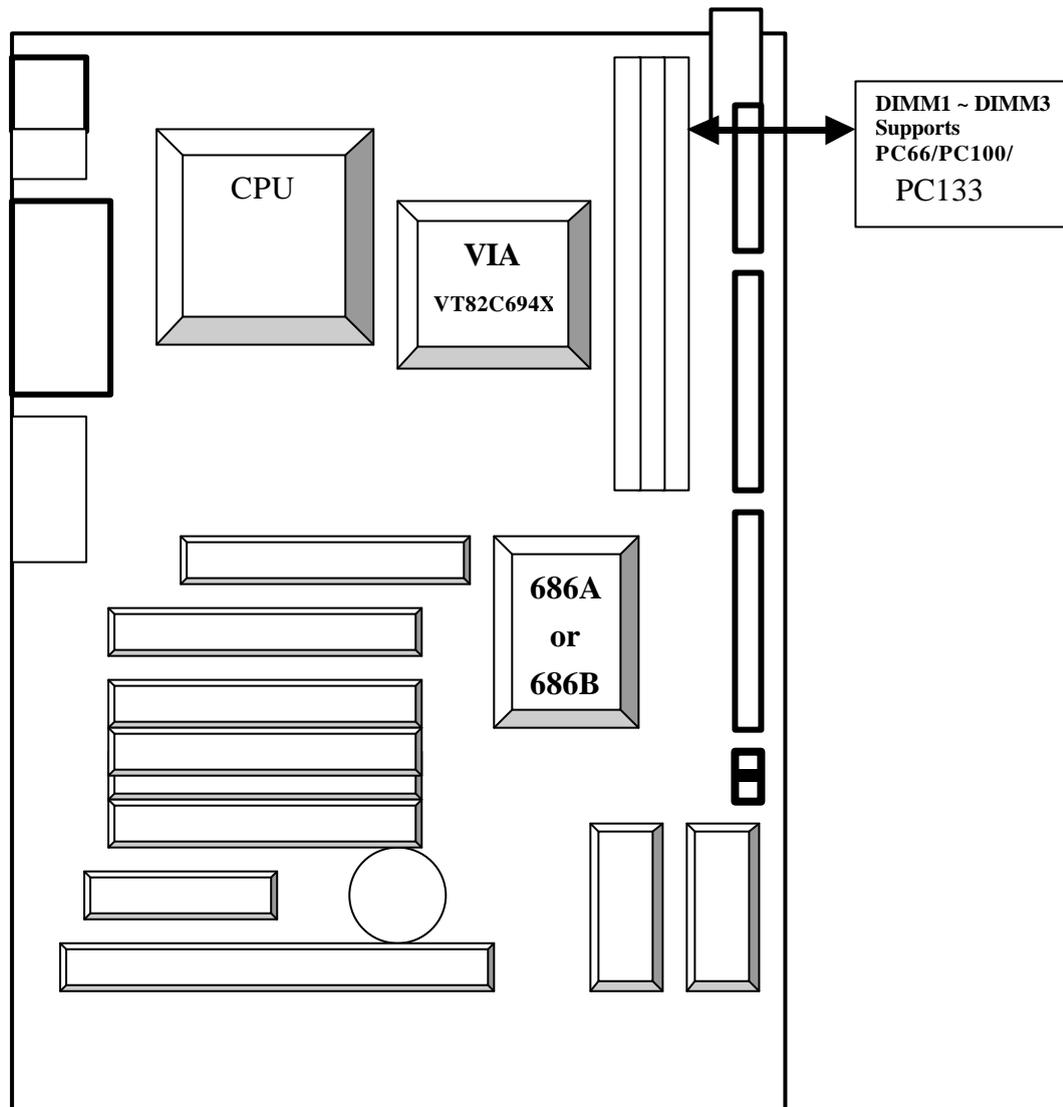
Indicators Connection



※ Attention: Please ask for technical support in order to avoid short circuit due to connection errors.

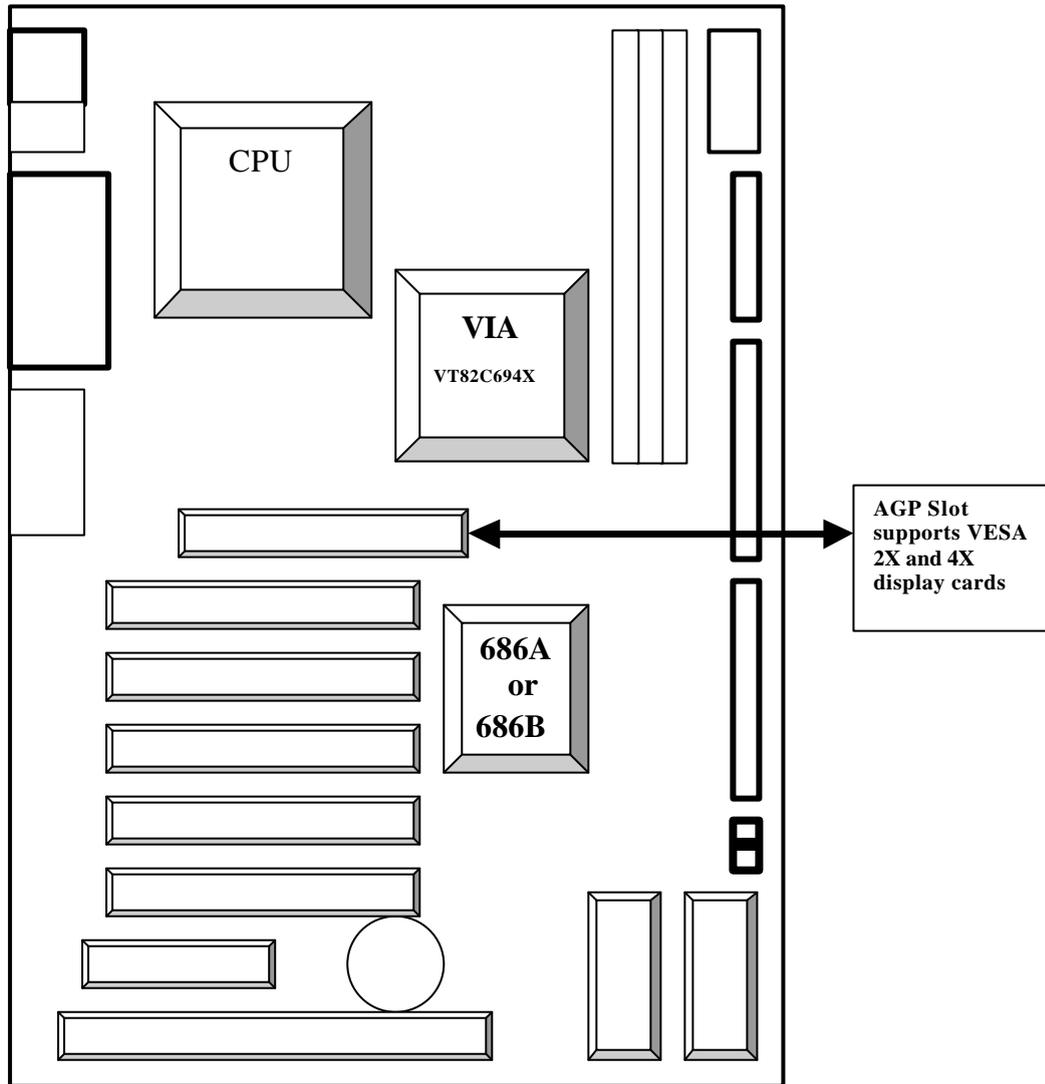
Fan Socket:



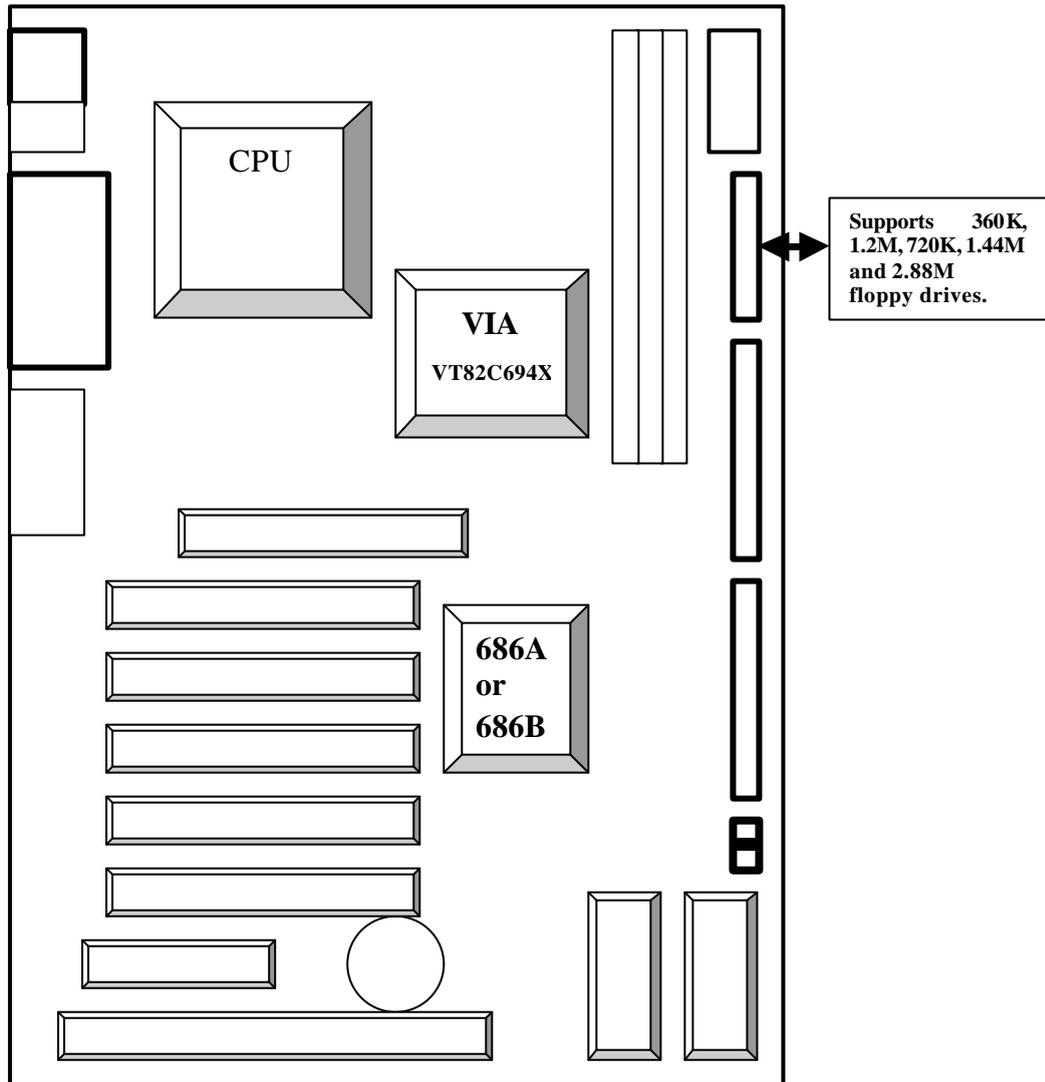
Memory Installation

※Attention: V694 supports PC-66, PC-100 and PC-133 DIMM, please choose SDRAM with the same frequency as your CPU to prevent system boot difficulties. Ensure that you Check CPU and SDRAM specifications before installation.

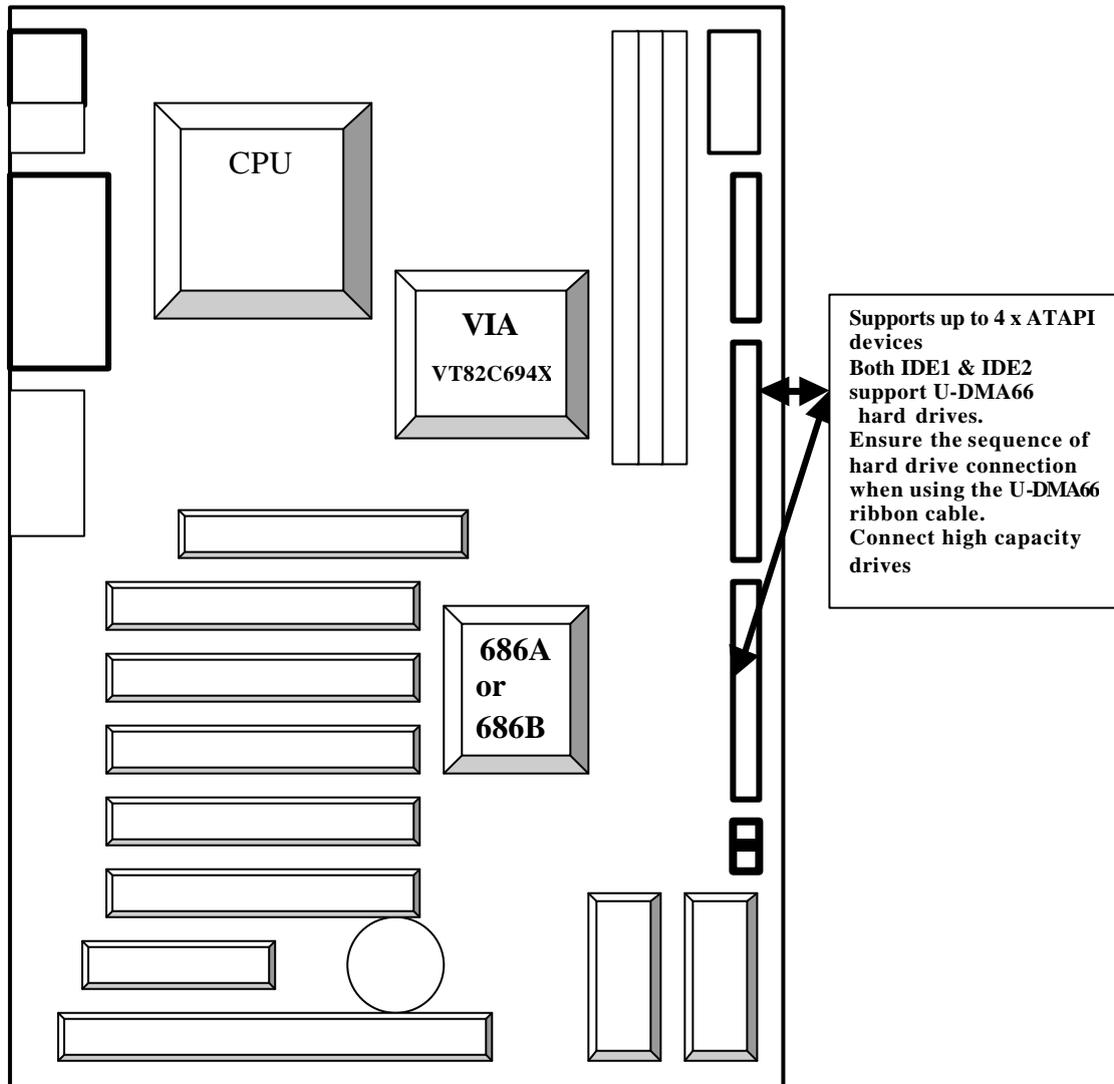
AGP Slot:



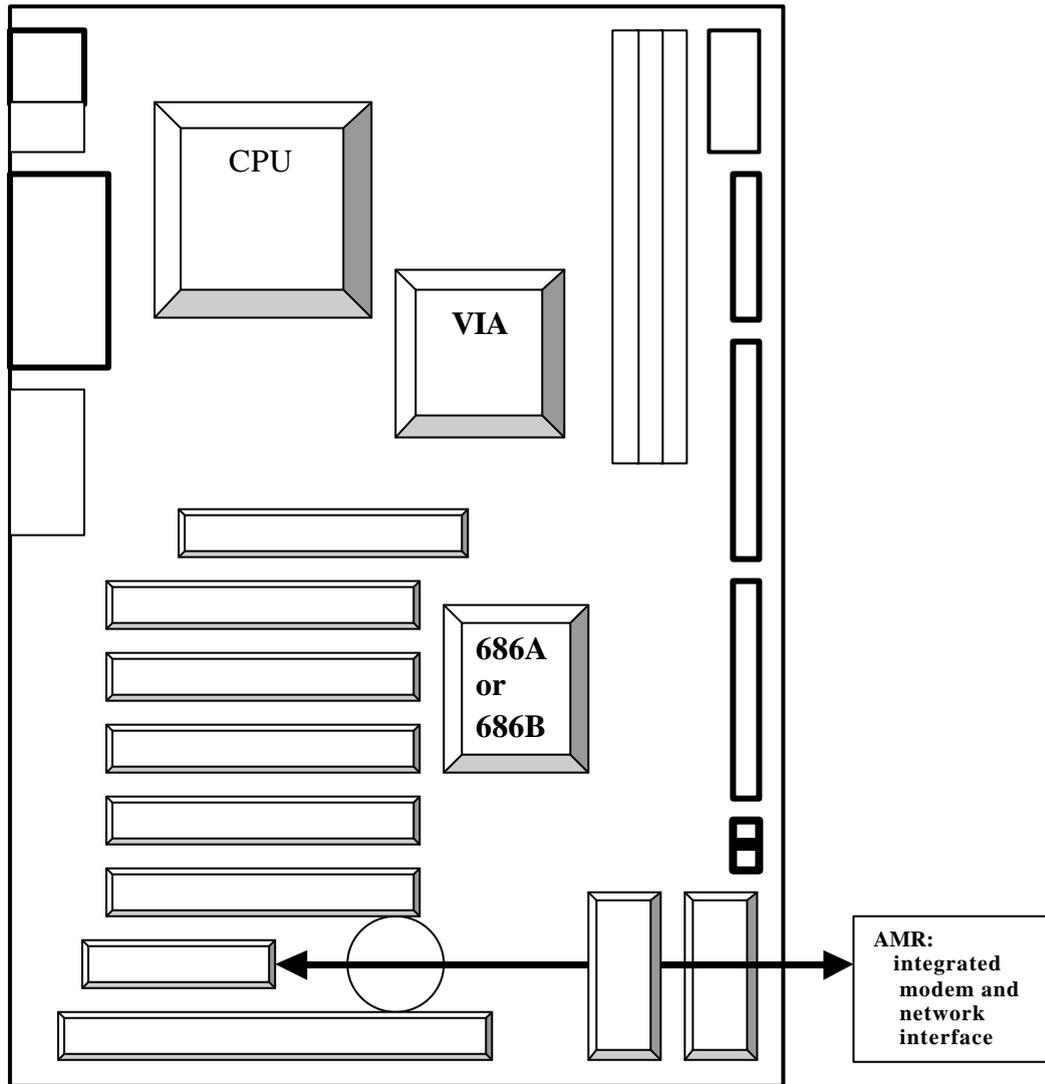
Floppy Drive Socket



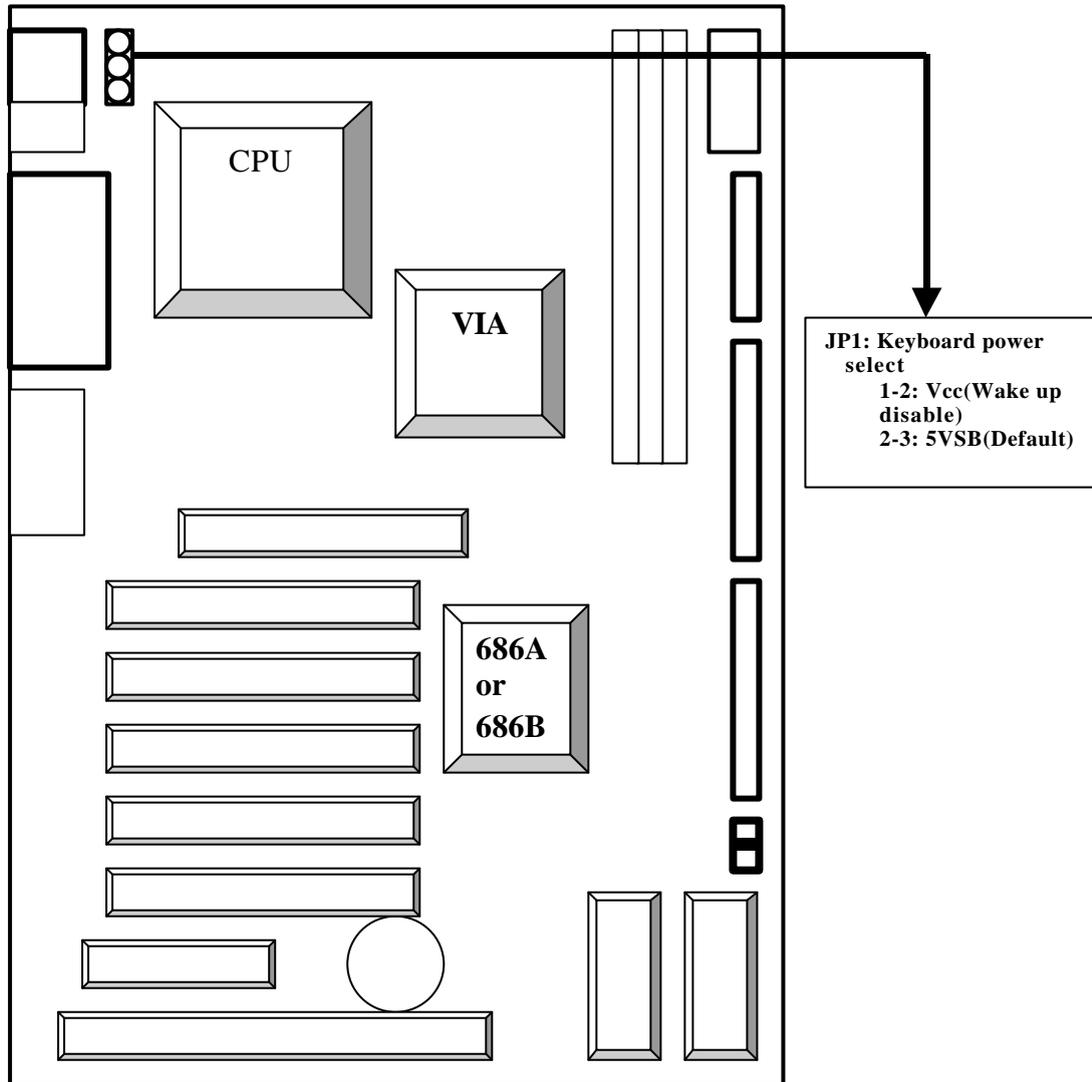
IDE1 & IDE2 Interfaces:



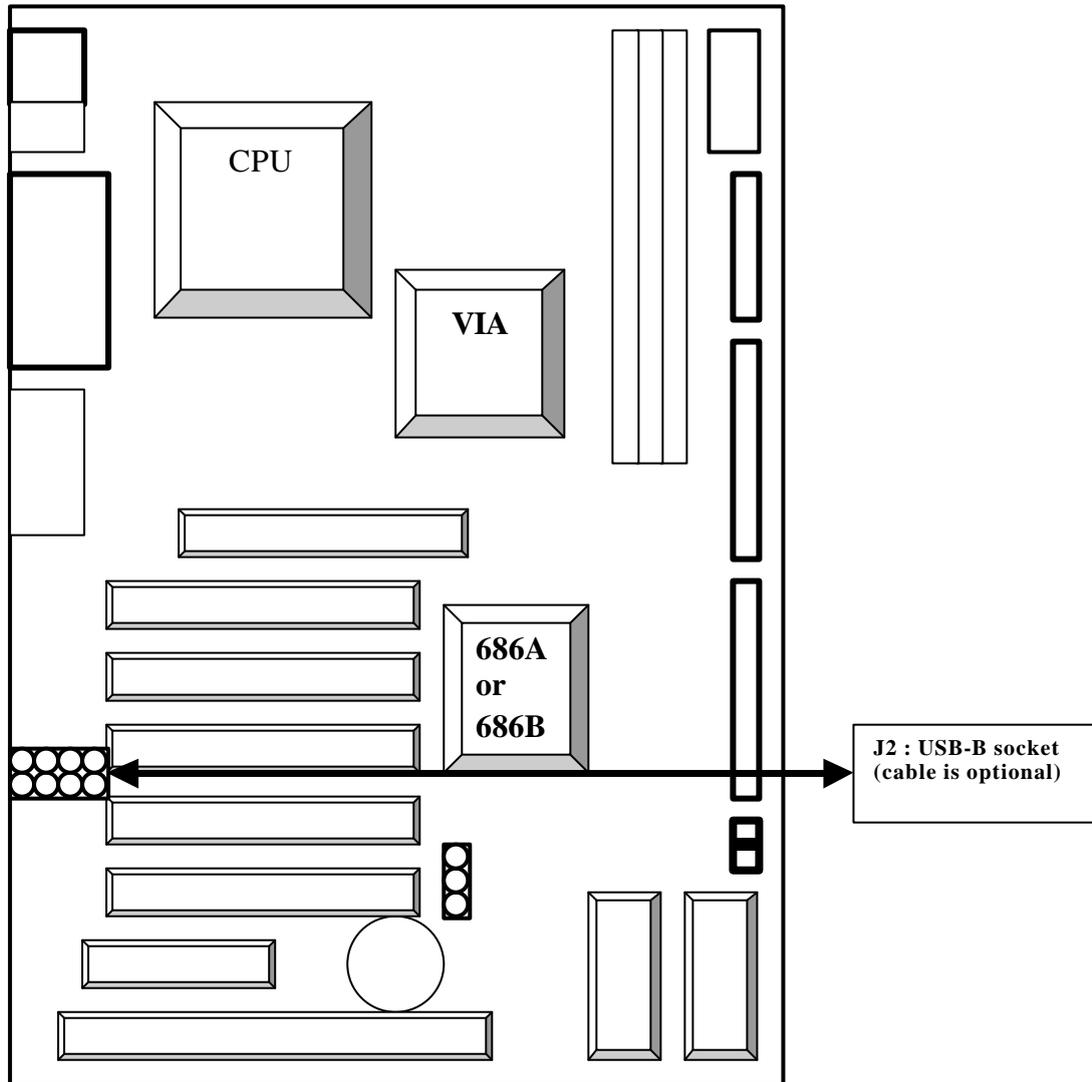
AMR Slot:



Keyboard, Mouse or USB Wake-up Options:



USB-B Location and Power Supply Options:

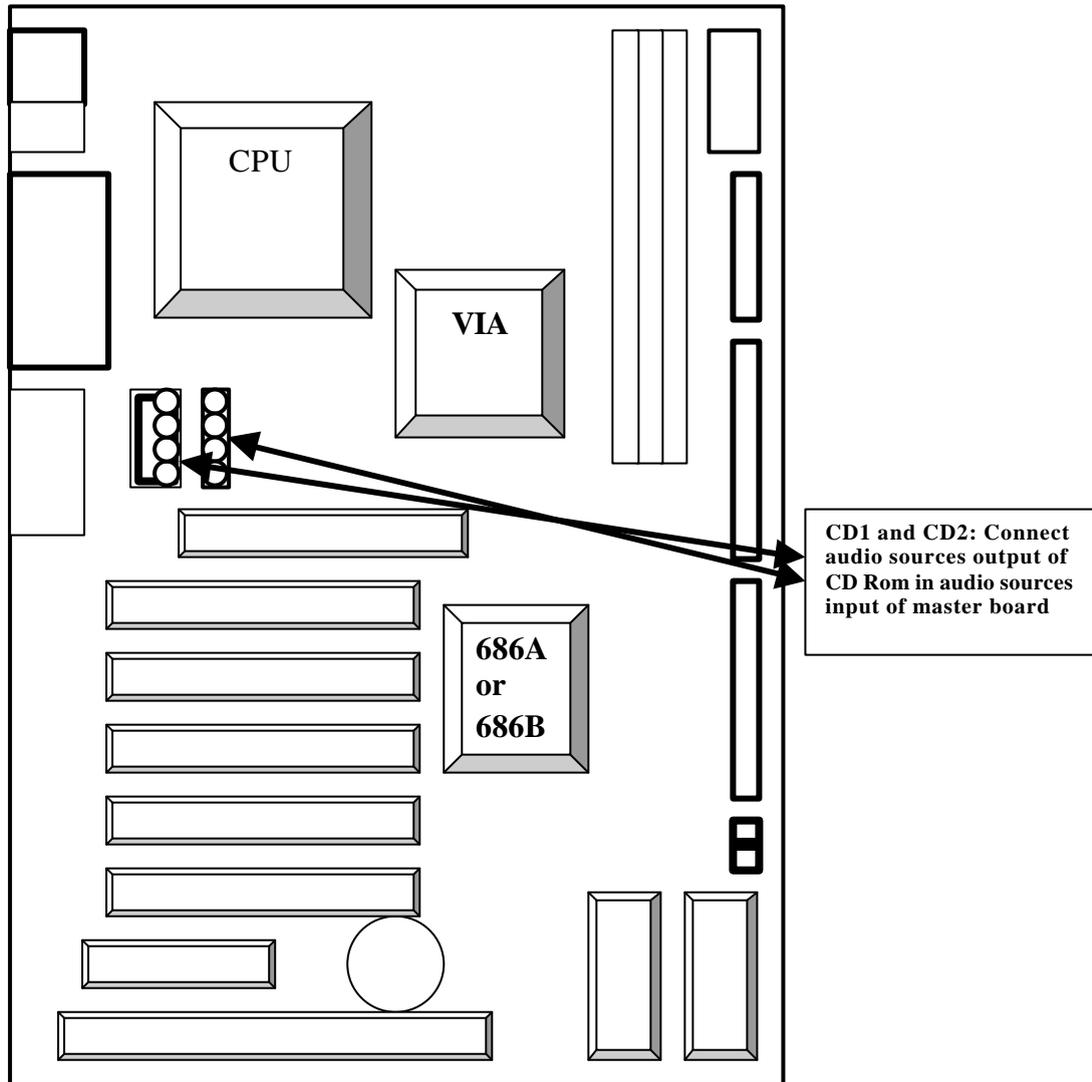


 USB-B Socket, red line and pin1 pink.

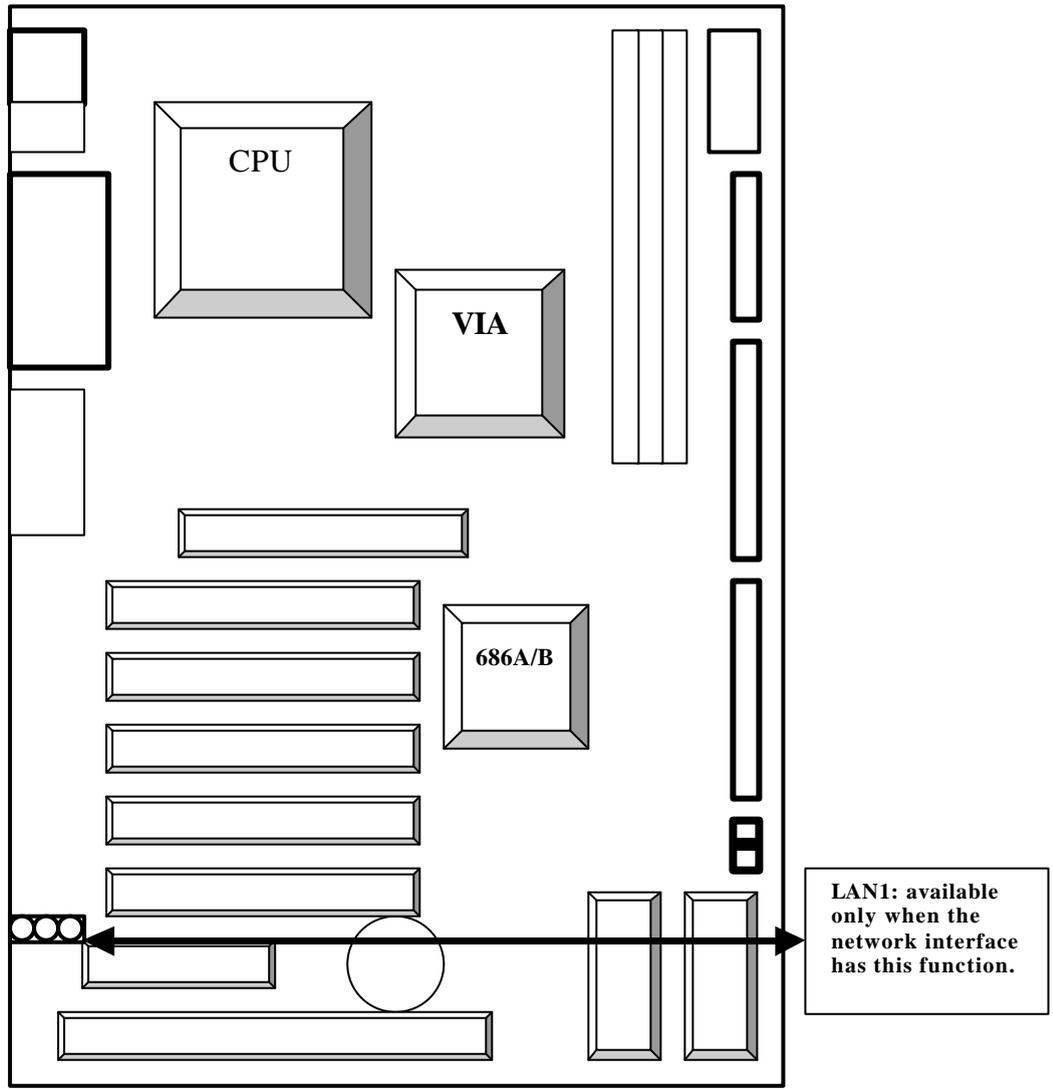
 Easy hot connector.

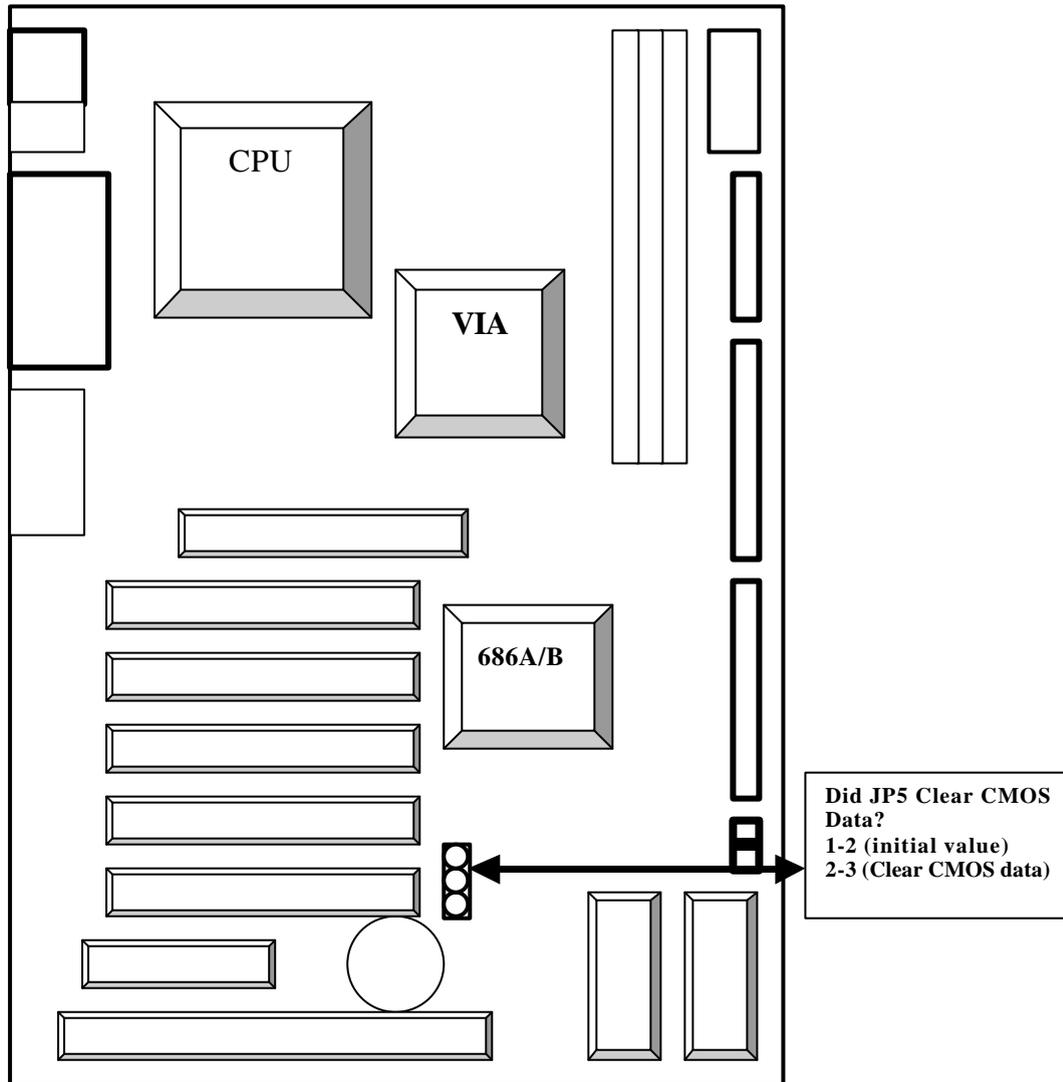
V694 users may enjoy the USB network function with this USB-B com.

CD-ROM Audio In Put receptacle:



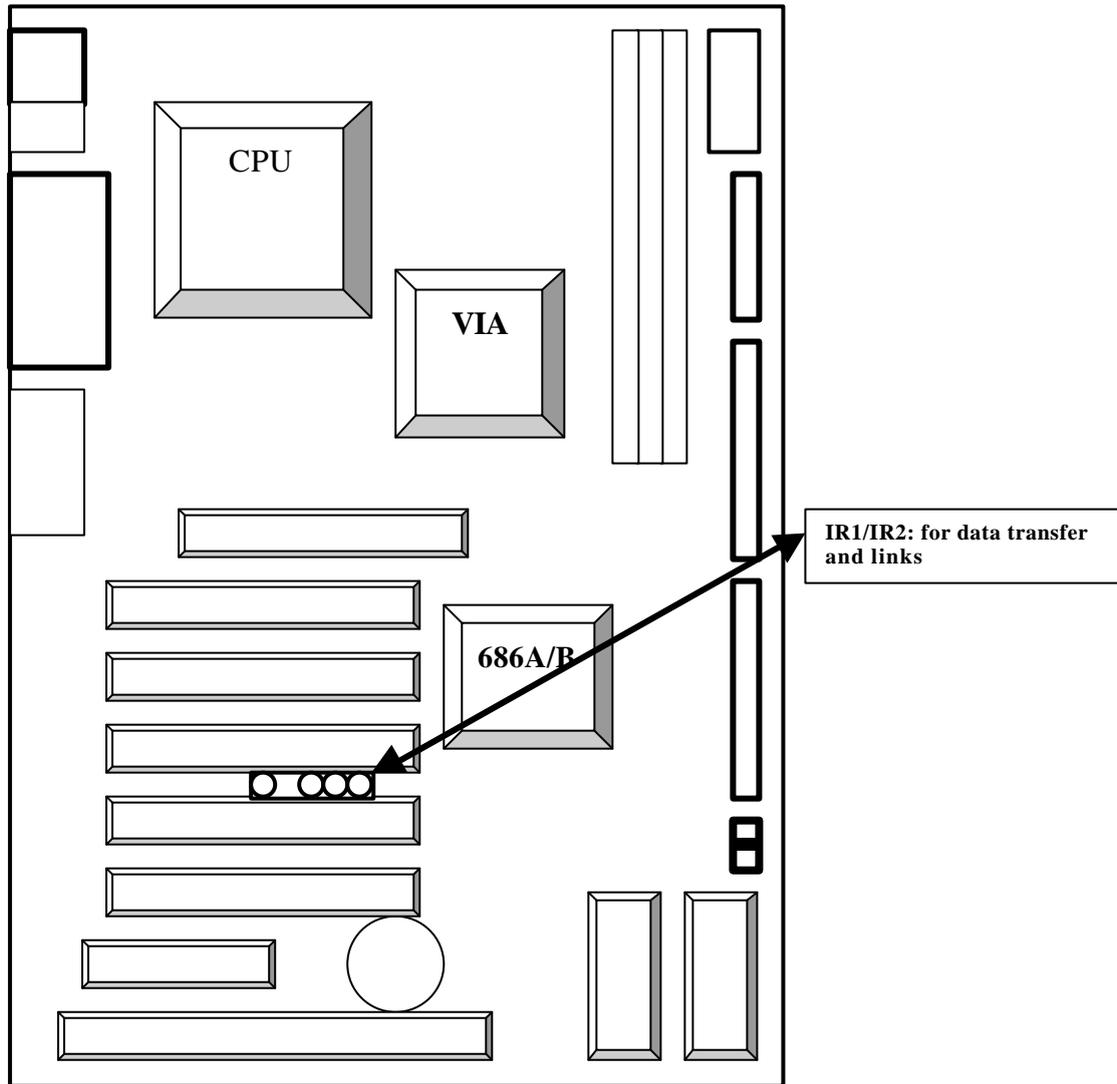
Wake-up On LAN :



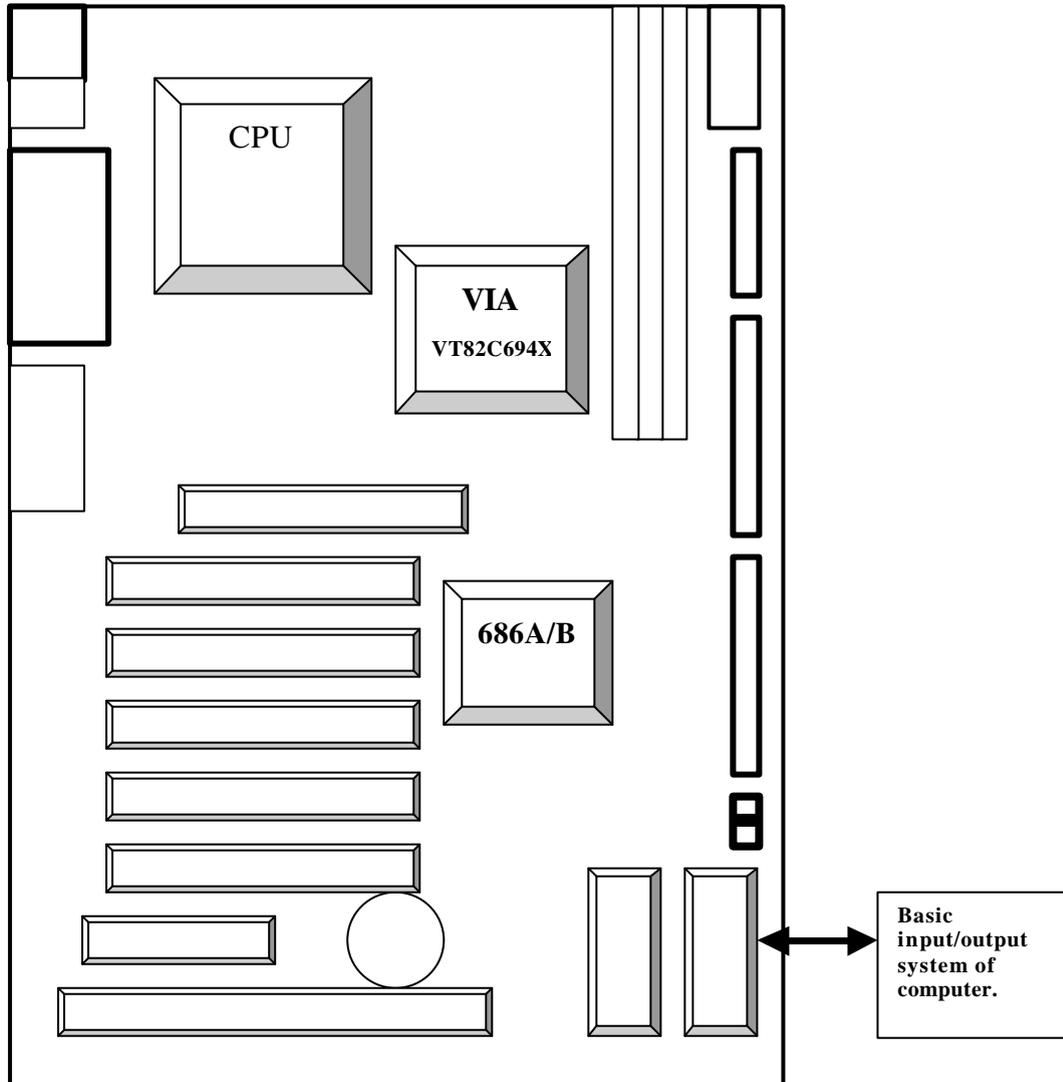
CMOS Reset:

Attention: To avoid motherboard damage, do not clear CMOS data during system operation. Disconnect power supply before CMOS clearing.

Infrared Device Connection :



BIOS Location:



Chapter 4. BIOS Setup

Start the computer and press DEL when the BIOS is running POST to enter the Award BIOS CMOS setup main menu.

The right arrow key indicates the presence of submenus under certain items.

Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Intergrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status	Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving
ESC:Quit	: Select Item
F10:Save & Exit Setup	
Time, Date, Hard Disk Type...	

<< main menu >>

Standard CMOS Features

You may set the date, time, floppy and hard drives specifications and monitor, type in this page.

Data (mm:dd:yy)	Sat, Jan 1 2000	Item Help
Time (hh:mm:ss)	0 : 19 : 27	
IDE Primary Master	[None]	Menu Level
IDE Primary Slave	[None]	Change the dag, month,
IDE Secondary Master	[None]	year and century
IDE Secondary Slave	[None]	
Drive A	[1.44M, 3.5 in.]	
Drive B	[None]	
Video	[EGA/VGA]	
Halt On	[All, But Keyboard]	
Base Memory	640K	
Extended Memory	130048K	
Total Memory	131072K	

↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
 F5:Previous Values F6:Fail -Safe Defaults F7:Optimized Defaults

Date

Use <Page Up>/<Page Down> or <+>/<-> to set date in MM/DD/YY format. The reasonable range of each item is 1-12 for month, 1-31 for day, and xxxx-2079 for year.

Time

Use <Page Up>/<Page Down> or <+>/<-> to set time in HH/MM/SS format. The reasonable range of each item is: hour (00-23), minute (00-59), and second (00-59).

IDE Primary Master(Slave) / IDE Secondary Master(Slave)

Method below can be adopted for setting.

AUTO	Set both TYPE & MODE to AUTO to enable BIOS to detect IDE device values automatically when you start the computer.
User TYPE	<p>Enter the data of each device according to the information from the manufacturer.</p> <ol style="list-style-type: none"> 1. CYLS: number of cylinders 2. HEADS: number of heads 3. PRECOMP: pre-compensation 4. LANDZONE: landing zone 5. SECTORS: number of sectors

Drive A / Drive B

Items to be set are as follows:

None	No floppy drive is installed.
360K, 5.25 in	5.25-inch floppy drive at 360KB capacity
1.2M, 5.25 in	5.25-inch floppy drive at 1.2MB capacity
720K, 3.5 in	3.5-inch floppy drive at 720KB capacity
1.44M, 3.5 in	3.5-inch floppy drive at 1.44MB capacity
2.88M, 3.5 in	3.5-inch floppy drive at 2.88 MB capacity

Floppy 3 Mode Support (Japanese 3 Mode floppy drive)

Disabled	No 3 mode floppy installed
Drive A	3 mode floppy drive at path A
Drive B	3 mode floppy drive at path B
Both	3 mode floppy drives at paths A & B

Video

EGA / VGA	Choose this item for EGA, VGA, SVGA, PGA displays
CGA 40	Color Graphics Adapter at 40 columns
CGA 80	Color Graphics Adapter at 80 columns
MONO	Monochrome display

Halt Setting Options

Upon turning on the machine, if post detect abnormality, Whether briefing is required or wait for disposition? Clans to be selected are as follows :

NO Errors	System will not halt for any error.
All Errors	System halts when there is an error.
All, But Keyboard	System halts when there is an error, except keyboard error
All, But Diskette	System halts when there is an error, except diskette error
All, But Disk/Key	System halts when there is an error, except disk/keyboard error

Memory

Size of memory installed on the system will be displayed on the bottom right corner of the STANDARD CMOS SETUP while BIOS is running the POST (Power-On Self-Test)

Base Memory: size of conventional memory (640KB) reserved for DOS.

Extended Memory: Size of extended memory equals to the total memory installed, minus the sizes of base and other memories. If the value is incorrect, check that the DIMM module has been properly installed.

Advanced BIOS Features

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software
Advanced BIOS Features

<p>Virus Warning [Disabled] CPU Internal Cache [Enabled] External Cache [Enabled] CPU L2 Cache ECC Checking [Enabled] Processor Number Feature [Enabled] Quick Power On Self Test [Enabled] First Boot Device [Floppy] Second Boot Device [HDD-0] Third Boot Device [CDROM] Boot Other Device [Enabled] Swap Floppy Seek [Disabled] Boot Up Floppy Seek [Disabled] 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] Us Select For DRAM > 64MB [Non-OS2] Video BIOS Shadow [Enabled] C8000-CBFFF Shadow [Disabled] CC000-CFFFF Shadow [Disabled] D0000-D3FFF Shadow [Disabled] D4000-D7FFF Shadow [Disabled] D8000-DBFFF Shadow [Disabled] DC000-DFFFF Shadow [Disabled]</p>	<p>Item Help</p> <hr/> <p>Menu Level</p> <p>Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area , BIOS will show a warning message on screen and alarm beep</p>
---	--

↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
 F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults

Virus Warning

Enabled	During and after the system boots up, any attempt to write the to the boot sector or partition table of the hard drive will halt the system and a warning message will appear to prompt users.
Disabled	To disable virus warning (Default).

CPU Internal Cache

Enables CUP internal cache memory.

External Cache

Enables CUP external cache memory

CPU L2 Cache ECC Checking

Enables or disables L1 or L2 cache memory on the mainboard according to user needs.

Quick Power On Self Test

Skips the second, third and fourth POSTs to shorten POST duration. Each POST is a complete test.

First / Second / Third Boot device

Floppy	System first boots from floppy.
LS120	System first boots from LS120
ZIP100	System first boots from ZIP100
HDD-0~3	System first boots from hard drives 0-3
SCSI	System first boots from SCSI
CDROM	System first boots from CD-ROM
Disable	Disable boot sequence.
LAN	System first boots from LAN

Boot Up Floppy Seek

To enable or disable floppy seek testing by POST.

Enabled	BIOS searches for floppy drive type (Default)
Disabled	BIOS will not search for floppy drive type.

Boot Up NumLock Status

On	Keypad is used as number keys (Default)
Off	Keypad is used as arrow keys.

Security Option

System	The system will not boot and the access to CMOS Setup will be denied unless the correct password is entered at the prompt.
Setup	The system will boot, but the access to CMOS Setup will be denied unless the correct password is entered at the prompt. (Default)

- ☛ If you do not wish to use a password, first select a new password in SETUP and do not enter any password, then press ENTER.

Gate A20 option

Enables use of memory over 1MB.

Typematic Rate Setting

Enables typematic rate setup.

Typematic Rate (Chars/Sec)

Enables key repeat timing from 6 to 30 character/second, available values are: 6, 8, 10, 12, 16, 20, 24 or 30.

US Select For DRAM>64MB

Set to Enabled for use of OS/2 with onboard memory over 64MB.

Video BIOS Shadow

Enables Video BIOS to release from ROM to RAM to enhance display efficiency.

C8000-CBFFF To DC000-DFFFF

Enables ROM contents of all interfaces loan to RAM. Check if there is ROM on an interface and its shadow address. This function may reduce the size of usable memory from 640KB to 1024KB.

Advanced Chipset Features

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software
Advanced Chipset Features

		Item Help
DRAM Clock	[Host CLK]	
SDRAM Cycle Length	[3]	
DRAM Drive Strength	[Auto]	Menu Level
X DRAM Drive Value	DC	
Memory Hole	[Disabled]	
P2C/C2P Concurrency	[Disabled]	
System BIOS Cacheable	[Disabled]	
Video RAM Cacheable	[Disabled]	
AGP Aperture Size	[64M]	
AGP-4X Mode	[Enabled]	
AGP Driving Control	[Auto]	Enabled adds a parity
X AGP Driving Value	DA	Check to the boot-up
AGP Fast Write	[Disabled]	memory tests. Select
OnChip USB	[Enabled]	Enabled only if the
USB Keyboard Support	[Disabled]	system DRAM contains
OnChip Sound	[Auto]	parity
OnChip Modem	[Auto]	
CPU to PCI Write Buffer	[Disabled]	
PCI Dynamic Bursting	[Disabled]	
PCI Master 0 WS Write	[Disabled]	
PCI Delay Transaction	[Enabled]	
PCI #2 Access #1 Retry	[Enabled]	
AGP Master 1 WS Write	[Enabled]	
AGP Master 1 WS Read	[Enabled]	
Memory Parity/ECC Check	[Disabled]	

↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults

SDRAM Cycle Length

Sets SDRAM CAS pulse value, default is 3.

Memory Hole

Disabled: Default

Enabled: enables base memory (15-16MB) remap to ISA BUS.

NB: Cache of this block will be disabled when this function is selected.

System BIOS Cacheable

Disabled: to disable system BIOS cache function.

Enabled: to enable system BIOS cache function by enhancing BIOS run-time with L2 cache.

Video BIOS Cacheable

Enables CPU to use the R/W cache of RAM on the display card. Default is Disabled.

Enabled: enhances display card access.

Disabled: reduces display efficiency. (Applicable to all nVidia display cards)

AGP Graphics Aperture Size

32MB	Set AGP Graphics Aperture Size to 32MB
64MB	Set AGP Graphics Aperture Size to 64MB (Default)

AGP- 4X Mode

Enables AGP-4X mode. Users must install a display card with AGP-4X function before it works.

AGP Fast Write

Enhances AGP display card, applicable for only Geforce display card.

Enabled: ON

Disabled: OFF

USB Keyboard Support

Sets function to Enabled when USB keyboard is installed.

OnChip Sound

Enables/disables on-chip sound device.

OnChip Modem

Enables/disables on-chip MR card.

CPU to PCI Write Buffer

Default.

PCI Dynamic Bursting

Default. It enhances overall system performance.

Intergrated peripherals

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software
Intergrated peripherals

OnChip IDE Channe 10	[Enabled]	Item Help
OnChip IDE Channe 11	[Enabled]	
IDE Prefetch Mode	[Enabled]	Menu Level
Primary Master PIO	[Auto]	
Primary Slave PIO	[Auto]	
Secondary Master PIO	[Auto]	
Secondary Slave PIO	[Auto]	
Primary Master UDMA	[Auto]	
Primary Slave UDMA	[Auto]	
Secondary Master UDMA	[Auto]	
Secondary Slave UDMA	[Auto]	
Init Display First	[PCI Slot]	
Guardian System Function	[Disabled]	
IDE HDD Block Mode	[Enabled]	
Onboard FDD Controller	[Enabled]	
Onboard Serial Port 1	[Auto]	
Onboard Serial Port 2	[Auto]	
UART 2 Mode	[Auto]	
UART 2 Mode	[Standard]	
X IR Function Duplex	Half	
X TX,RX inverting enable	No, Yes	
Onboard Parallel Port	[378/IRQ7]	
Onboard Parallel Mode	[Normal]	
X ECP Mode Use DMA	3	
X Parallel Port EPP Type	EPP1.9	
Onboard Legacy Audio	[Enabled]	
Sound Blaster	[Disabled]	
SB I/O Base Address	[220H]	
SB IRQ Select	[IRQ 5]	
SB DMA Select	[DMA 1]	
MPU-401	[Disabled]	
MPU-401- I/O Address	[330-333H]	
Game Port (200-207H)	[Enabled]	

↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults

OnChip IDE Channel 0

Enabled: enables on-chip IDE 0 (Primary).

Disabled: disabled on-chip IDE 0 (Primary).

OnChip IDE Channel 1

Enabled: enables on-chip IDE 1 (Secondary).

Disabled: disabled on-chip IDE 1 (Secondary).

Primary Master PIO

Auto: BIOS will automatically detect the IDE access mode of Primary Master IDE channel.

Mode 0-4: manually set IDE access mode.

Primary Slave PIO

Auto: BIOS will automatically detect the IDE access mode of Primary Slave IDE channel.

Mode 0-4: manually set IDE access mode.

Secondary Master PIO

Auto: BIOS will automatically detect the IDE access mode of Secondary Master IDE channel.

Mode 0-4: manually set IDE access mode.

Secondary Slave PIO

Auto: BIOS will automatically detect the IDE access mode of Secondary Slave IDE channel.

Mode 0-4: manually set IDE access mode.

Primary Master UDMA

Auto: BIOS will automatically select the optimal setting.

Disabled: hard drive runs in normal mode.

Primary Slave UDMA

Auto: BIOS will automatically select the optimal setting.

Disabled: hard drive runs in normal mode.

Secondary Master UDMA

Auto: BIOS will automatically select the optimal setting.

Disabled: hard drive runs in normal mode.

Secondary Slave UDMA

Auto: BIOS will automatically select the optimal setting.

Disabled: hard drive runs in normal mode.

Init Display First

Onboard/AGP	System boots from on-chip AGP.
PCI Slot	System boots from PCI (Default)

Guardian System Function

Disabled	Disables Guardian System function.
Enabled	Enables Guardian System function.

IDE HDD Block Mode

Enables and disables IDE HDD block mode. Most hard drive available on the market supports IDE HDD block mode (approx. with a capacity over 120 MB).

Enabled	Enables IDE HDD Block Mode (Default)
Disabled	Disables IDE HDD Block Mode.

Onboard FDC Controller

Enabled	Enables onboard FDC interface (Default)
Disabled	Disables onboard FDC interface.

Onboard Serial Port 1

Auto	Determines by BIOS
3F8/IRQ4	Assigns serial port 1 to COM 1 at address 3F8 (Default)
2F8/IRQ3	Assigns serial port 1 to COM 2 at address 2F8.
3E8/IRQ4	Assigns serial port 1 to COM 3 at address 3E8.
2E8/IRQ3	Assigns serial port 1 to COM 4 at address 2E8.
Disabled	Disables serial port 1.

Onboard Serial Port 2

Auto	Determines by BIOS.
3F8/IRQ4	Assigns serial port 2 to COM 1 at address 3F8.
2F8/IRQ3	Assigns serial port 2 to COM 2 at address 2F8. (Default)
3E8/IRQ4	Assigns serial port 2 to COM 3 at address 3E8.
2E8/IRQ3	Assigns serial port 2 to COM 4 at address 2E8.
Disabled	Disables serial port 2.

UART 2 Mode

Enables users to set IR transfer specifications: Standard, ASKIR or HPSIR.

Onboard Legacy Audio

Enables and disables onboard ISA audio function.

Sound Blaster

Enables and disables onboard Sound Blaster audio function.

SB I/O Base Address

Recommended Default value.

SB IRQ Select

ISA sound card IRQ setup.

SB DMA Select

Sound Blaster DMA channel setup.

MPU-401

Recommended default value.

MPU-401 I/O Address

Recommended default value.

Game Port (200-207H)

Enables and disables game port.

Power Management

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software
Power Management

ACPI function	[Enabled]	Item Help
Power Management	[Press Enter]	
ACPI Suspend Type	[S1(POS)]	Menu Level
PM Control by APM	[Yes]	
Video Off Option	[Suspend - > Off]	
Video Off Method	[V/H SYNC+Blank]	
MODEM Use IRQ	[3]	
Soft-Off by PWRBTN	[Instant-Off]	
Wake Up Events	[Press Enter]	

↑ ↓ → ← :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

Disabled: disables ACPI support.

Enabled: enables ACPI support.

ACPI Suspend Type

Enables S1(POS)

PM Control by APM

Select YES to let MS APM software to perform power management of the system.

Video Off Option

Monitor off timing when power management function is enabled.

Standby: enters Standby mode before monitor power is off.

Doze: enters Doze mode before monitor power is off.

Suspend: enters Suspend mode before monitor power is off.

N/A: disables power management from monitor.

Video Off Method

Select a method for power management:

V/H SYNC+Blank	To stop vertical and horizontal synchronic signal output on Energy Star monitor by the BIOS.
Blank Screen	The BIOS simply suspends video signal, thus saving power.
DPMS	BIOS will manage monitor power by means of DPMS. (Default)

MODEM Use IRQ

NA	Assign no IRQ to modem.
3	Assign modem to IRQ 3.
4	Assign modem to IRQ 4 (Default)
5	Assign modem to IRQ 5
7	Assign modem to IRQ 7
9	Assign modem to IRQ 9
10	Assign modem to IRQ 10
11	Assign modem to IRQ 11

Soft-off by PWR-BTTN

Instant-off	Push Soft-off button to directly switch off the system (Default)
Sec	Push and hold the button for 4 sec. before the system switches off.

PnP/PCI Configurations

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software
Pnp/PCI Configurations

PNP OS Installed	[Yes]	Item Help
Reset Configuration Data	[Disabled]	
Resources Controlled By	[Auto(ESCD)]	Menu Level
X IRQ Resources	Press Enter	Select Yes if you are using a Plug and Play Capable operating System Select No if you need the BIOS to configure non-boot devices
X DMA Resources	Press Enter	
PCI/VGA Palette Snoop	[Disabled]	
Assign IRQ For VGA	[Enabled]	
Assign IRQ For USB	[Enabled]	

↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults

PNP OS Installed

Default is No. If it is set to Yes, the PnP OS will re-assigns all IRQs. Set to No if no PnP OS is installed or when you want to avoid re-assignment of IRQs.

Reset Configuration Data

Resets all PnP configurations in BIOS to facilitate write in new values or recover default values.

Disabled	Disables Reset Configuration Data. (Default)
ESCD	Reset ESCD PnP data.
DMI	Reset DMI data.
Both	Reset both ESCD and DMI data.

Resources Controlled by

Manual	Enables users to manually assign traditional ISA interface in CMOS SETUP.
Auto (ESCD)	Enables BIOS to determine system resources according to PnP devices. (Default)

PCI/VGA Palette Snoop

If color display is abnormal after installing MPEG, set PCI/VGA Palette Snoop to Enabled to correct color output.

Enabled	Enables color correction
Disabled	Disables color correction (Default)

Assign IRQ For USB

Assigns IRQ to USB Port. Default is Enabled.

PC Health Status

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software

PC Health Status

		Item Help
Current CPU Temp.	25 C/77 F	Menu Level >
Current System Temp.	46 C/114 F	
Current CPUFAN1 Speed	0 RPM	
Current CPUFAN2 Speed	3405 RPM	
Vcore	1.77 V	
2.5V	2.56V	
3.3V	3.36V	
5V	5.07V	
12V	12.18V	
↑ ↓ → ← :Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Current CPU Temp.

Current CPU temperature.

Current System Temp.

Current system temperature.

Current CPUFAN1/FAN2 Speed

Current fan speed (RPM/sec)

CPU(V)

CPU voltage (Vcore/Vcache)

Options: 3.3V, 5V and 12V.

Frequency/Voltage Control

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software

Frequency/Voltage Control

Auto Detect DIMM/PCI Clk	[Enabled]	Item Help
Spread Spectrum	[Disabled]	
CPU Host Clock (CPU/PCI)	[Default]	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		

Auto Detect DIMM/PCI Clk

When DIMM or PCI slots are not in use, idle DIMM/PCI Clk may help to reduce power consumption.

Enabled: disables all idled DIMM/PCI

Disabled: enables DIMM/PCI Clk.

CPU HOST Clock (Host/PCI)

Changes CPU external frequency when CPU FSB is a bus.

Load Fail-Safe Defaults

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software

Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Power Management PnP/PCI Configuration PC Health Status	Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password
Esc : Quit F10 : Save & Exit Setup	↑ ↓ → ← : Select Item
Load Fail-Safe Defaults	

Press <Y> and <Enter> to load BIOS default values.

- ☛ You may load Fail-Safe Defaults if your system works unstably. The overall system performance may be slowed, since Fail-Safe Defaults are generally intended for basic system starts.

Load Optimized Defaults

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software

Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Power Management PnP/PCI Configuration PC Health Status	Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password
Esc : Quit F10 : Save & Exit Setup	↑ ↓ → ← : Select Item
Load Optimized Defaults	

Press <Y> and <Enter> to load optimized defaults.

- ☛ Load Optimized Defaults when you want to optimize your system performance without risking system instability from changing CMOS setup.

Set Supervisor Password

CMOS Setup Utility – Copyright (C) 1984-2001 Award Software

Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Power Management Setup PnP/PCI Configurati PC Health Status	Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Password Setup Password Saving
Esc : Quit F10 : Save & Exit Setup	↑ ↓ → ← : Select Item
Change/Set/Disable Password	

SUPERVISOR PASSWORD and USER PASSWORD

Both are system passwords. SUPERVISOR PASSWORD protects unauthorized entry to BIOS setup and USER PASSWORD protects unauthorized system boot. The system does not have any password. If you want password protection for your system, select the item and enter a new password, then press ENTER. Each time you enter CMOS Setup or when the system starts, the prompt Enter Password will appear on the screen. Each password should contain no more than 8 characters or symbols, and pay attention to upper and lower cases of characters. After you have entered a new password, the system will ask you to confirm the password. The system will return to the main menu after you have completed the task.

Assign the security level from the Security Option under BIOS FEATURES SETUP. If you want to shut down one of the password, enter the SUPERVISOR PASSWORD or USER PASSWORD, then enter a new password when the system prompts Enter Password and press <Enter> to replace the old password.

NB: If you forget your password, close pins 2-3 on JP4 to clear CMOS data, then close pins 1-2 again.

Chapter 5 Drivers Installation

Attention: Please follow all instructions on the screen to avoid unnecessary problems during system software installation.



Figure 1

Click V694 mainboard.

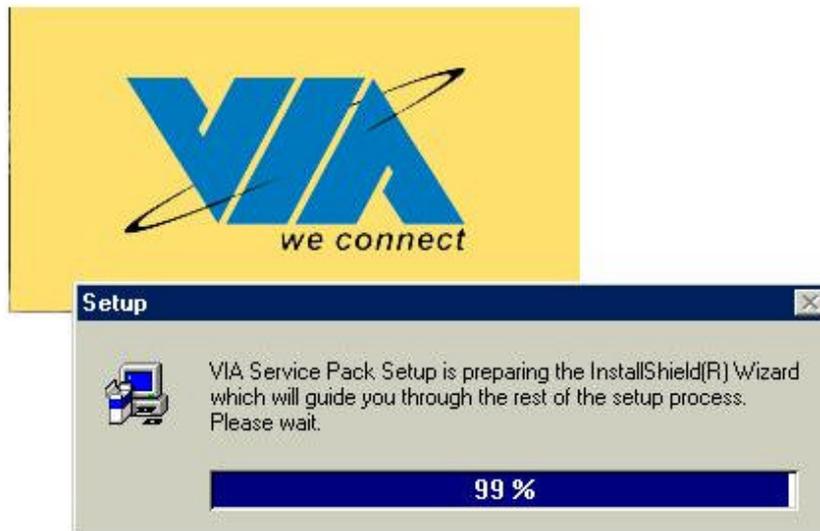
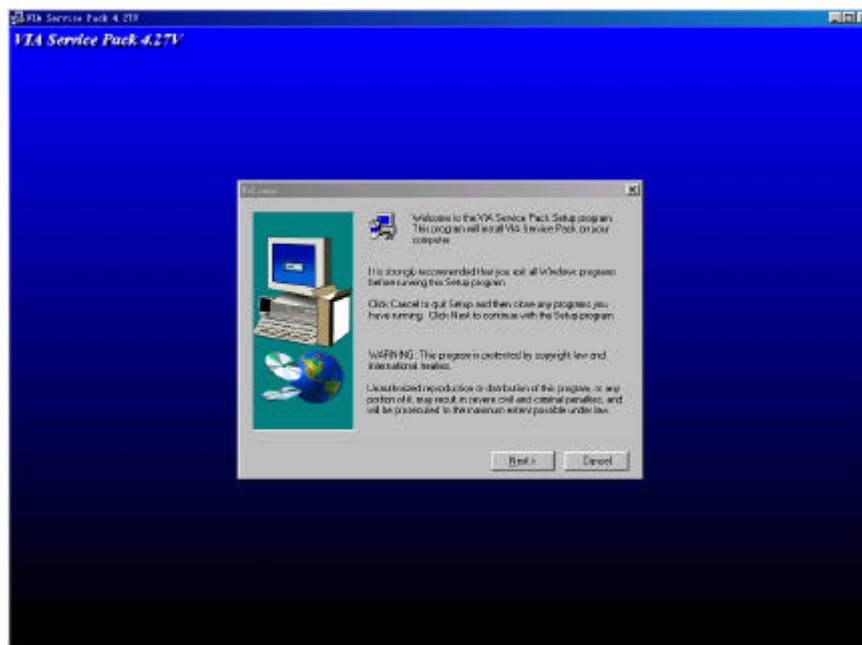


Figure 2

V694 mainboard driver menu.

VIA Chipset Patch Driver:

Click the VIA Chipset Patch Driver item on menu to install chipset drivers as shown in Figure 3 – Figure 12

**Figure 3****Figure 4**

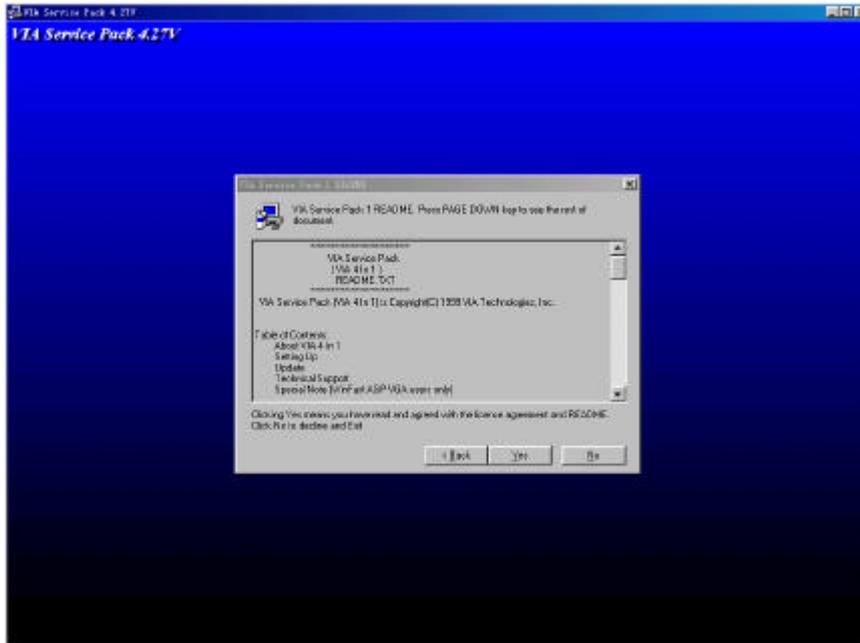


Figure 5

Driver installation notes.

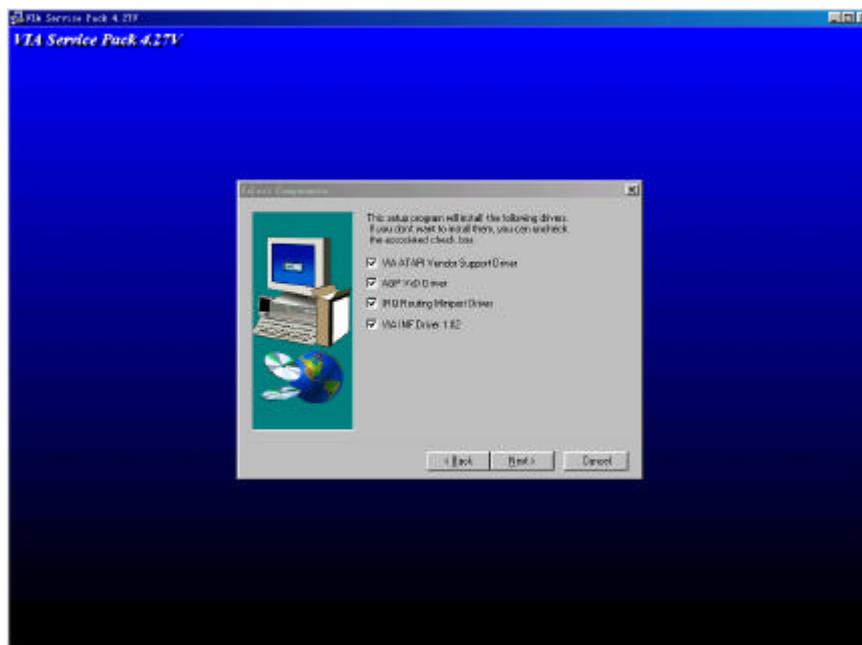


Figure 6

Select drivers to be installed.

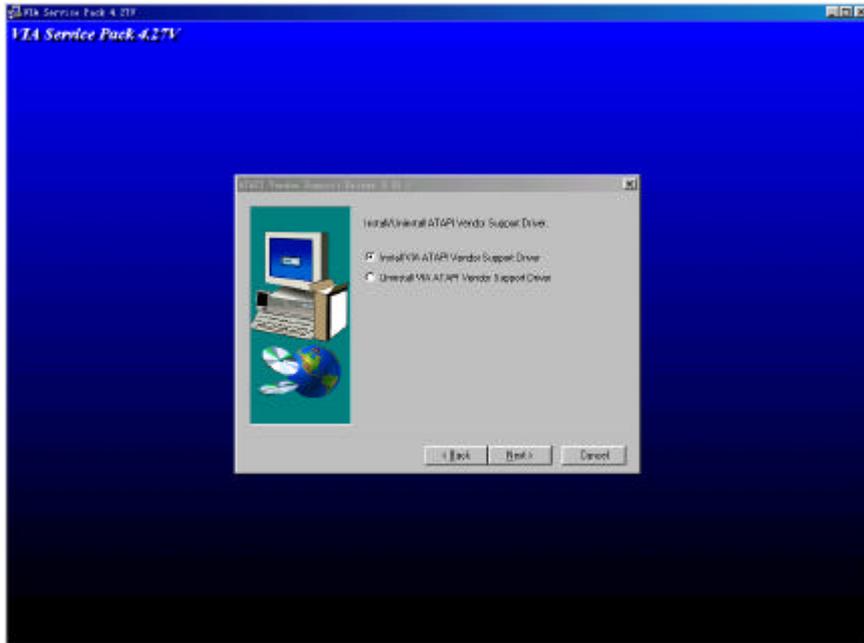


Figure 7

Install/Uninstall ATAPI Vendor Support Driver

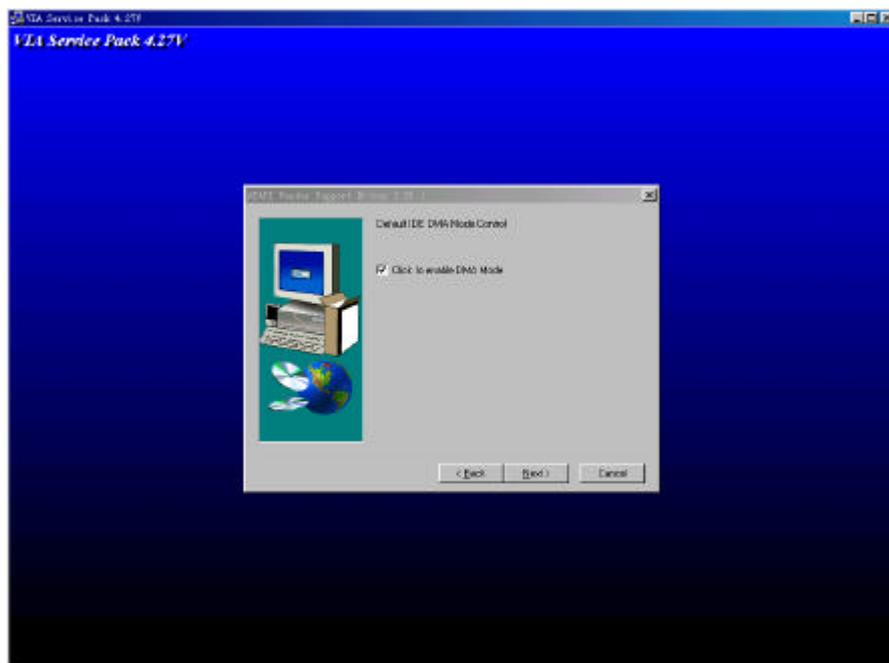


Figure 8

Enable or disable DMA mode.

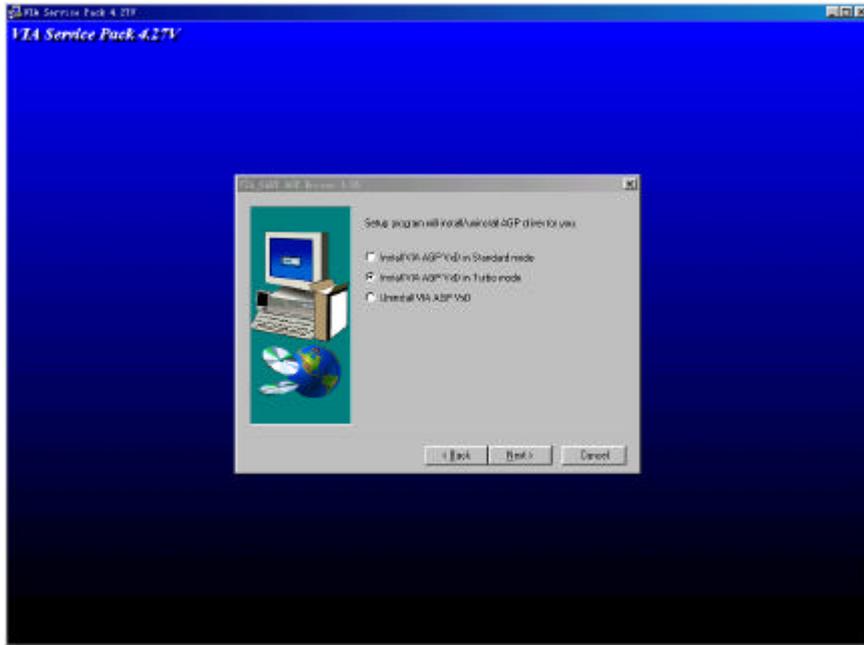


Figure 9

Select AGP mode

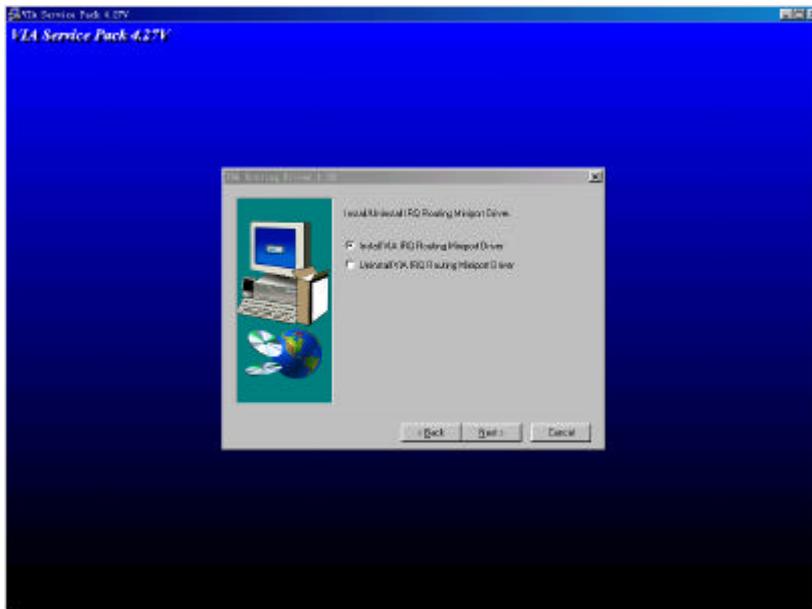


Figure 10

Select 'Install VIA IRQ Routing Miniport Driver'



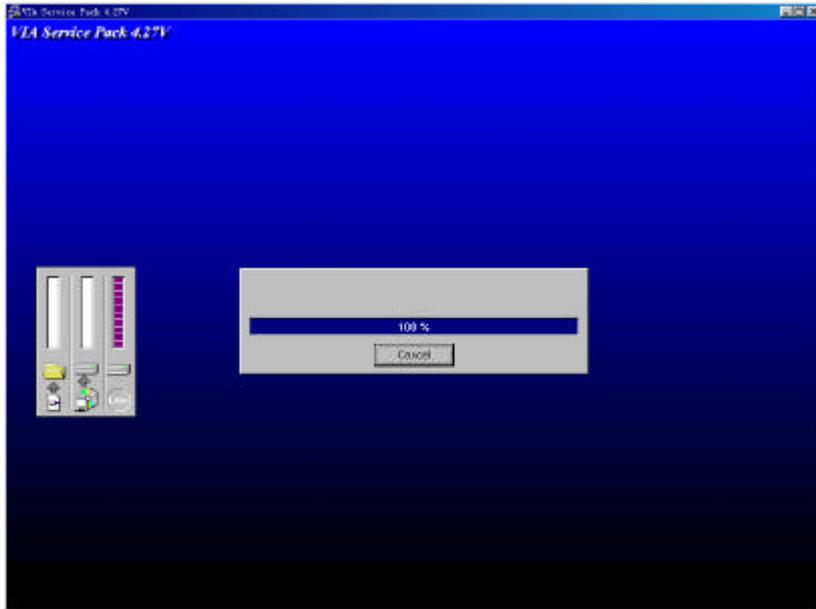


Figure 11

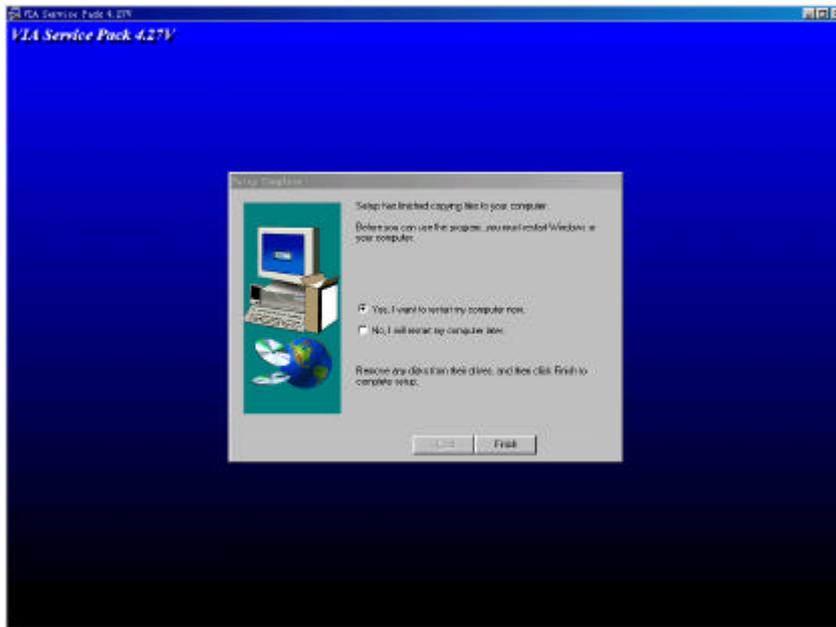


Figure 12

Restart the system to complete driver installation.

Sound Card Driver Installation

Figure 13 – Figure 17



Figure 13

Select the version your OS.



Figure 14

Select language support.



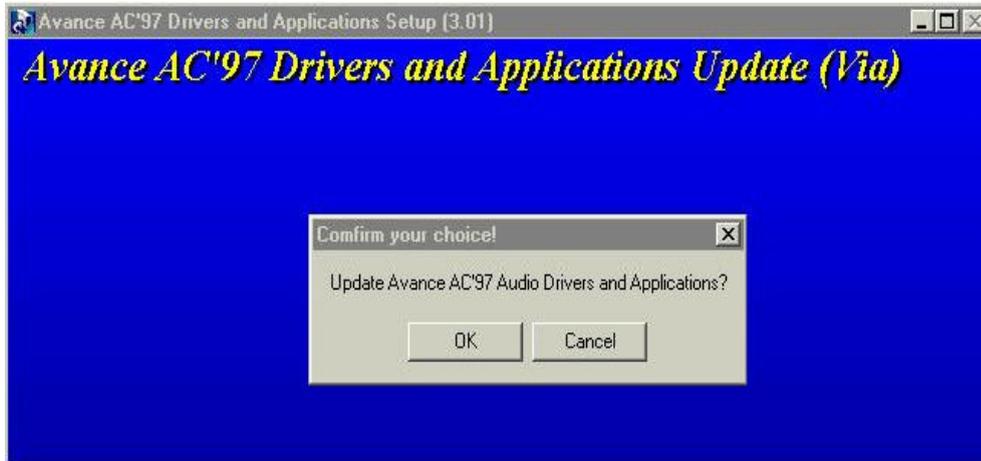


Figure 15

Click 'OK' to install AC'97 Codec Driver and applications for VIA chipset.

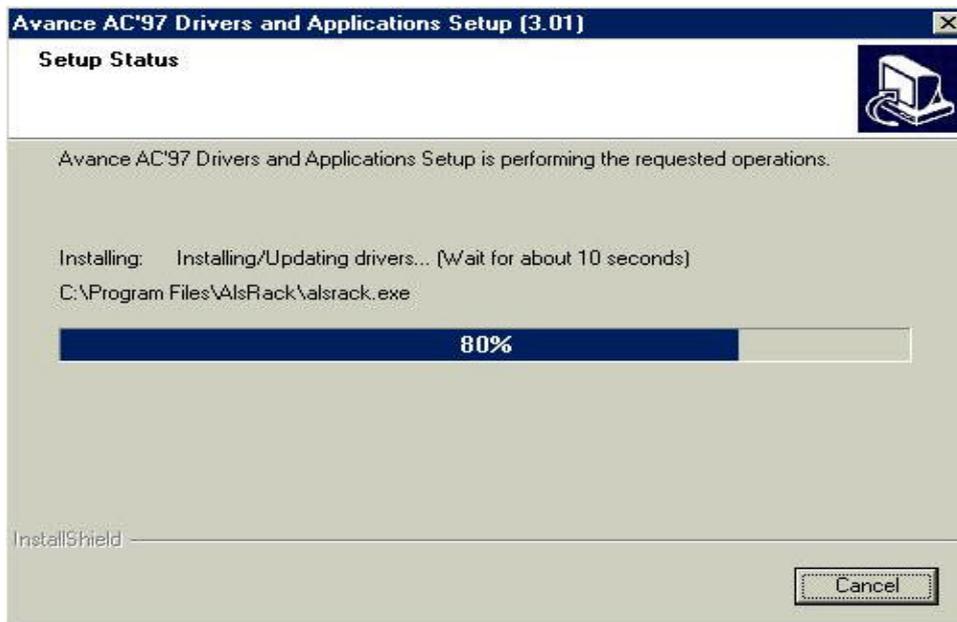


Figure 16





Figure 17

Restart the system to complete sound card driver installation.

Guardian System IDE Driver Installation



Figure 18

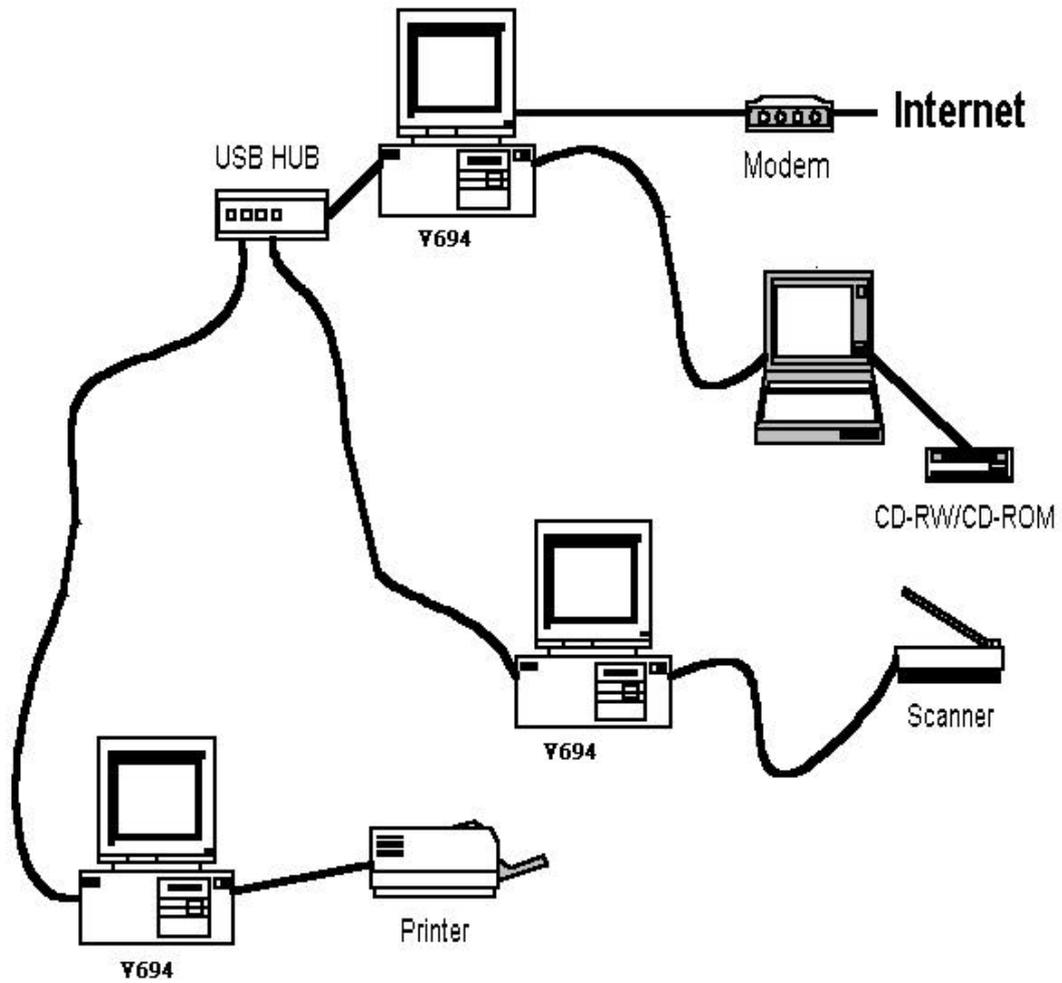
Click Guardian System IDE Driver to install the Guardian System.

Chapter 6. Easy Net Setup and Application

Easy Net Specification

- **USB host to host communication**
- **Standard Windows Explorer user interface**
- **Maximum Data transfer rate: Over 5 Mbps.**
- **Construct USB Network up to 17 PCs**
- **Support TCP/IP, NetBEUI, IPX/SPX protocols**
- **Full NDIS driver implementation**
- **Single cable solution for network communication**
- **No external power needed**
- **USB full speed connection**
- **PnP for easy use**
- **Support power management**
- **Suitable for SOHO and mobile network environment.**
- **Compliant with USB specification version 1.1**
- **Patent pending**

Easy installation Guide



Easy Net USB link enables quick resources share.

Driver Installation and Setup

Figure 19 – Figure 29

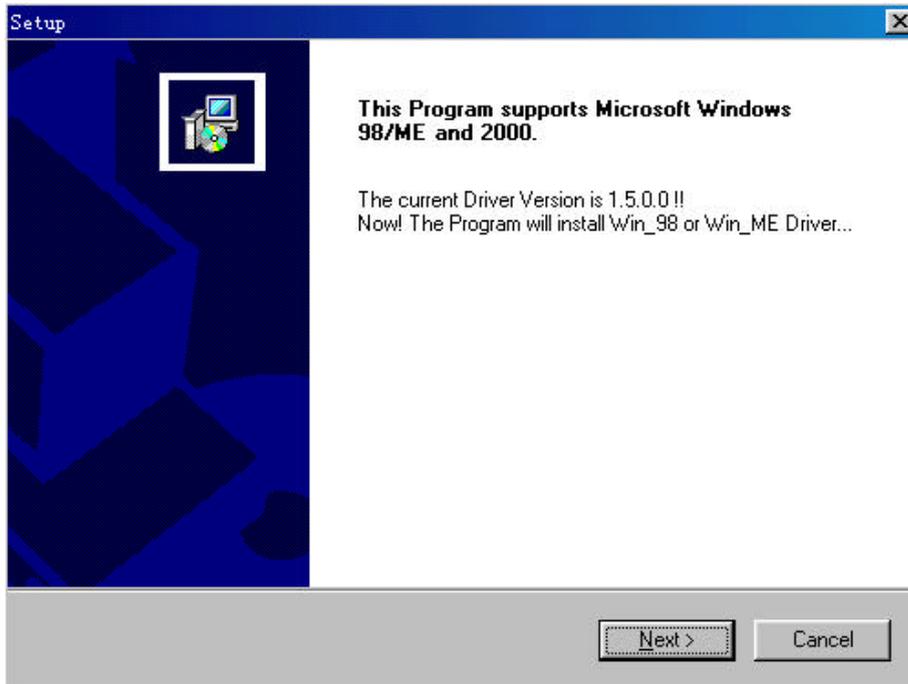


Figure 19

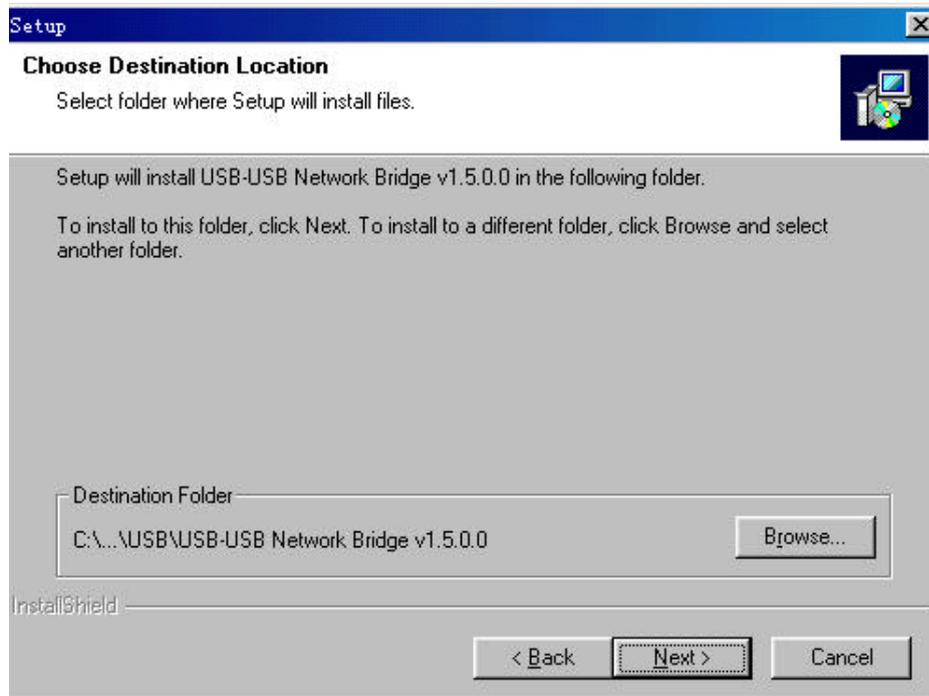


Figure 20



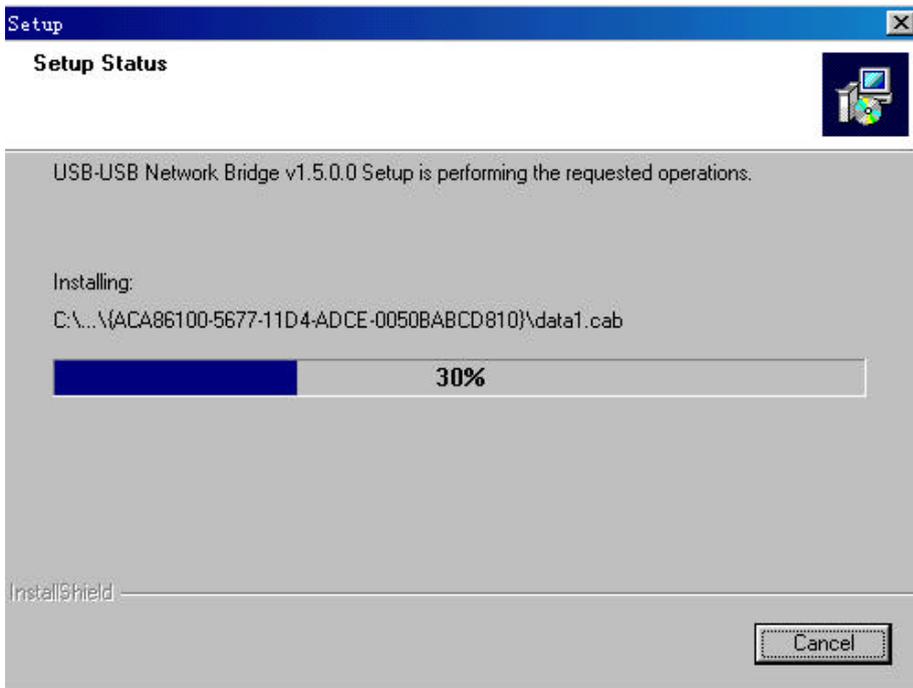


Figure 21



Figure 22

Select 'Yes'.



Figure 23





Figure 24
Select 'Yes'.



Figure 25



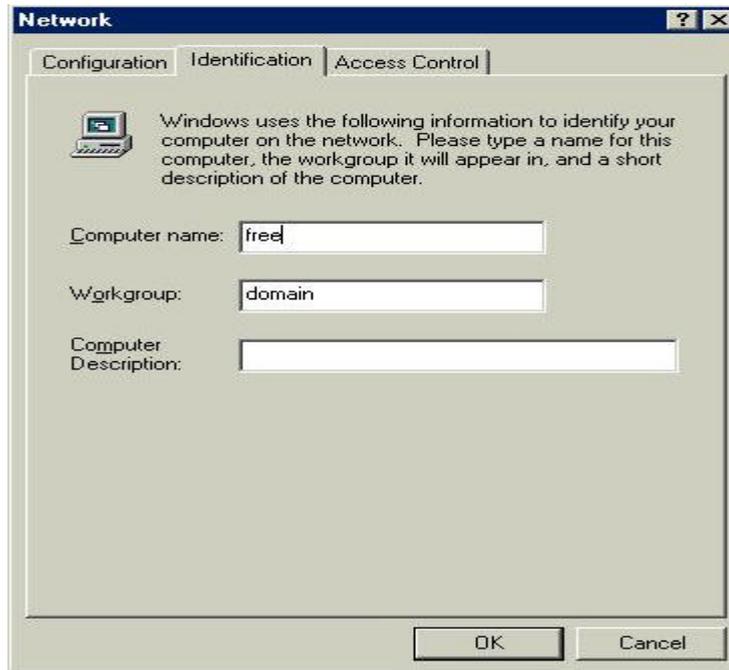


Figure 26

Set computer and workgroup names.

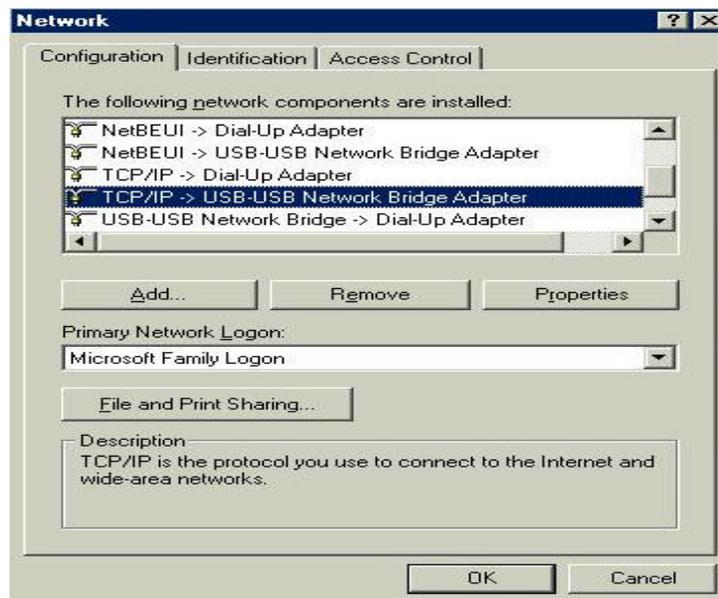


Figure 27

Select "Property (R)"



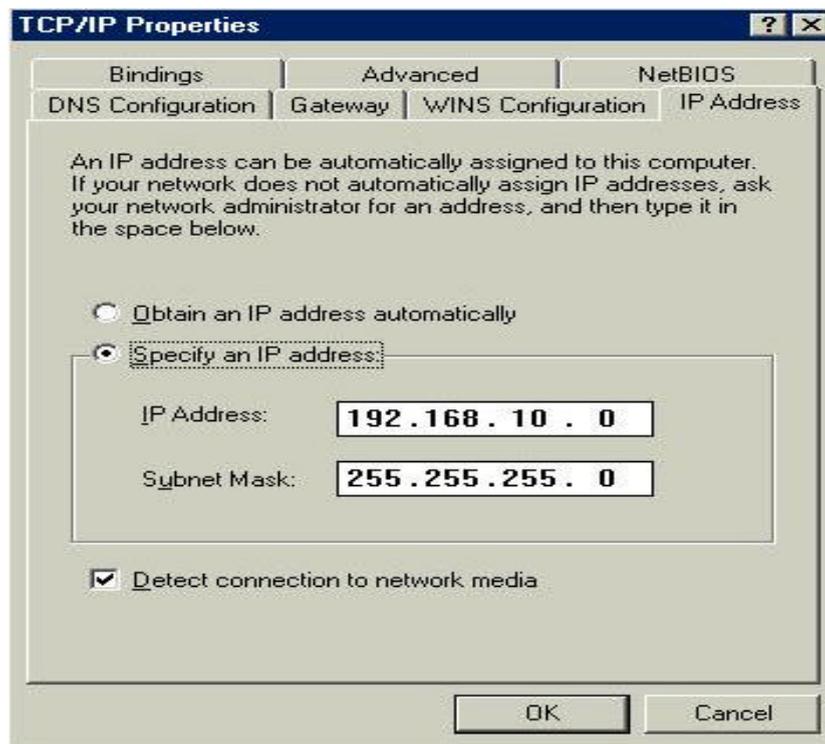


Figure 28

Set IP address.

Ex.: Host address: 192.168.10.1

Client address: 192.168.10.2

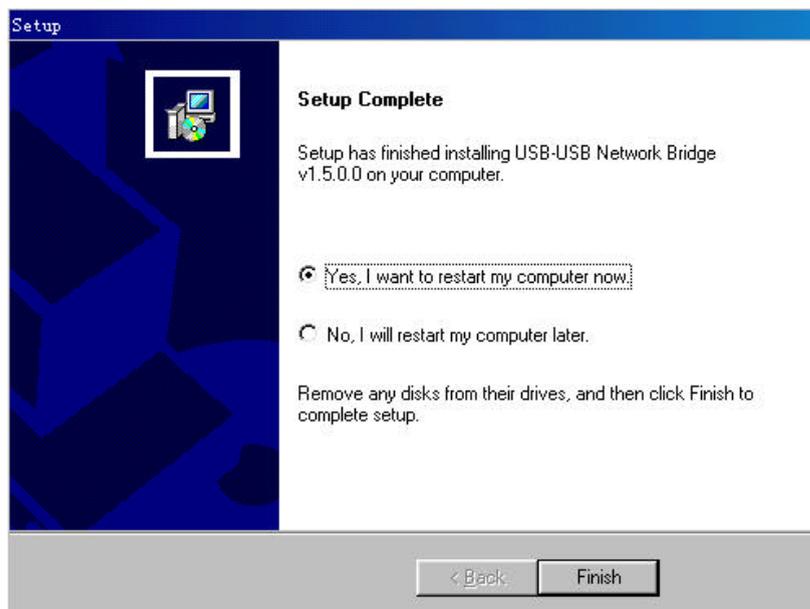


Figure 29

Appendix: BIOS Upgrade

BIOS Upgrade Procedure

- ✓ **Check BIOS manufacturer (AMI or Award)**
- ✓ **Copy the AWDFLASH.exe (\>\BIOSTOOL) on the Installation CD and BIOS data to a directory in your hard drive.**
Ex: C:\>BIOSTOOL\ (C: hard drive code; /BIOSTOOL/ directory name.)
- ✓ **Restart the system to MS-DOS or Command prompt only, enter the BIOS upgrade data directory.**
- ✓ **Run AWDFlash.exe to upgrade BIOS**
Ex. C:\BIOSTOOL\ AWDFlash <BIOS data>
- ✓ **Restart your system**

📌 **Note: ask for the latest BIOS from your dealer.**