

605TCF/605TCFL USER'S MANUAL

M/B For VIA BravoGiga processor

NO. G03-605TCR1A

Release date: April 2003

Trademark:

* Specifications and Information contained in this documentation are furnished for information use only, and are subject to change at any time without notice, and should not be construed as a commitment by manufacturer.

TABLE OF CONTENT

USER'S NOTICE	ii
MANUAL REVISION INFORMATION	ii
CHAPTER 1 INTRODUCTION OF 605TCF/605TCFL MOTHERBOARD	
1-1 FEATURE OF MOTHERBOARD	1
1-2 SPECIFICATION	2
1-3 LAYOUT DIAGRAM & JUMPER SETTING.....	3
CHAPTER 2 HARDWARE INSTALLATION	
2-1 HARDWARE INSTALLATION STEPS	5
2-2 CHECKING MOTHERBOARD'S JUMPER SETTING.....	5
2-3 INSTALL MEMORY.....	6
2-4 EXPANSION CARD	7
2-4-1 PROCEDURE FOR EXPANSION CARD INSTALLATION	7
2-4-2 ASSIGNING IRQ FOR EXPANSION CARD	7
2-4-3 INTERRUPT REQUEST TABLE FOR THIS MOTHERBOARD	8
2-5 CONNECTORS, HEADERS.....	8
2-5-1 CONNECTORS	8
2-5-2 HEADERS	11
2-6 STARTING UP YOUR COMPUTER	15
CHAPTER 3 INTRODUCING BIOS	
3-1 ENTERING SETUP	16
3-2 GETTING HELP.....	17
3-3 THE MAIN MENU	17
3-4 STANDARD CMOS FEATURES.....	19
3-5 ADVANCED BIOS FEATURES.....	19
3-6 ADVANCED CHIPSET FEATURES.....	20
3-6-1 ADVANCED DRAM CONTROL	21
3-7 INTEGRATED PERIPHERALS	22
3-7-1 ONCHIP IDE FUNCTION	23
3-7-2 ONCHIP DEVICE FUNCTION.....	23
3-7-3 ONCHIP SUPERIO FUNCTION.....	24
3-8 POWER MANAGEMENT SETUP	24
3-8-1 POWER MANAGEMENT	25
3-8-2 WAKE UP EVENTS.....	25
3-8-2.1 IRQS ACTIVITY MONITORING	26
3-9 PNP/PCI CONFIGURATION SETUP.....	26
3-10 PC HEALTH STATUS.....	27
3-11 MISCELLANEOUS CONTROL.....	28
3-12 LOAD STANDARD/OPTIMIZED DEFAULTS.....	28
3-13 SET SUPERVISOR/USER PASSWORD	29
CHAPTER 4 DRIVER & FREE PROGRAM INSTALLATION	
MAGIC INSTALL SUPPORTS WINDOWS 95/98/98SE/NT4.0/2000/XP	30
4-1 VIA 4 IN 1 INSTALL VIA SERVICE PACK 4 IN 1 DRIVER.....	31
4-2 VGA INSTALL VIA 8601 VGA DRIVER.....	33
4-3 SOUND INSTALL AUDIO CODEC DRIVER.....	34
4-4 LAN INSTALL VIA6105 CONTROLLER DRIVER.....	35
4-5 PC-HEALTH INSTALL VIA HARDWARE MONITOR DRIVER.....	36
4-5-1 HOW TO USE VIA HARDWARE MONITOR APPLICATION SOFTWARE.....	37
4-6 MAGIC BIOS INSTALL BIOS LIVE UPDATE UTILITY	37
4-7 PC-CILLIN INSTALL PC-CILLIN 2002 ANTI-VIRUS PROGRAM.....	38
4-8 HOW TO DISABLE ON-BOARD SOUND	40
4-9 HOW TO UPDATE BIOS	40

USER'S NOTICE

COPYRIGHT OF THIS MANUAL BELONGS TO THE MANUFACTURER. NO PART OF THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT MAY BE REPRODUCED, TRANSMITTED OR TRANSLATED INTO ANY LANGUAGE IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION OF THE MANUFACTURER.

THIS MANUAL CONTAINS ALL INFORMATION REQUIRED TO USE 605TCF/605TCFL MOTHER-BOARD AND WE DO ASSURE THIS MANUAL MEETS USER'S REQUIREMENT BUT WILL CHANGE, CORRECT ANY TIME WITHOUT NOTICE. MANUFACTURER PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, AND WILL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFIT, LOSS OF BUSINESS, LOSS OF USE OF DATA, INTERRUPTION OF BUSINESS AND THE LIKE).

PRODUCTS AND CORPORATE NAMES APPEARING IN THIS MANUAL MAY OR MAY NOT BE REGISTERED TRADEMARKS OR COPYRIGHTS OF THEIR RESPECTIVE COMPANIES, AND THEY ARE USED ONLY FOR IDENTIFICATION OR EXPLANATION AND TO THE OWNER'S BENEFIT, WITHOUT INTENT TO INFRINGE.

Manual Revision Information

Reversion	Revision History	Date
1.0	First Release	April 2003

Item Checklist

- 605TCF/605TCFL Motherboard
- Cable for IDE/Floppy
- CD for motherboard utilities
- 605TCF/605TCFL User's Manual

Chapter 1

Introduction of 605TCF/605TCFL Motherboard

1-1 Feature of motherboard

The 605TCF/605TCFL motherboard is design for use VIA C3 BravoGiga processors with 133 MHz Front Side Bus frequency, and the memory size expandable to 1GB (using 256Mb technology). This motherboard integrated VGA, Audio, and PC Health Function with Micro ATX form factor to support total solution for today's computer market.

This motherboard using VIA Apollo PLE133T VT8601T and VT82C686B chipset, whose 133MHz front side bus delivers a clear upgrade path to the future generation of 133MHz processors and PC-100/PC-133 SDRAM. The 605TCF/605TCFL motherboard offers ULTRA DMA 66/100 (ATA 100) to provide speedier HDD throughout that boosts overall system performance.

The 605TCF/605TCFL also has an integrated AC'97 2.1 CODEC on board which is fully compatible with Sound Blaster Pro® that gives you the best sound quality and compatibility. VIA VT8601T chipset also includes integrated 3D Graphic Acceleration to provide a lower cost video display solution.

605TCFL motherboard also integrated PCI LAN Controller supports 10/100 BASE-T Transfer rate for those whom require LAN function for net work.

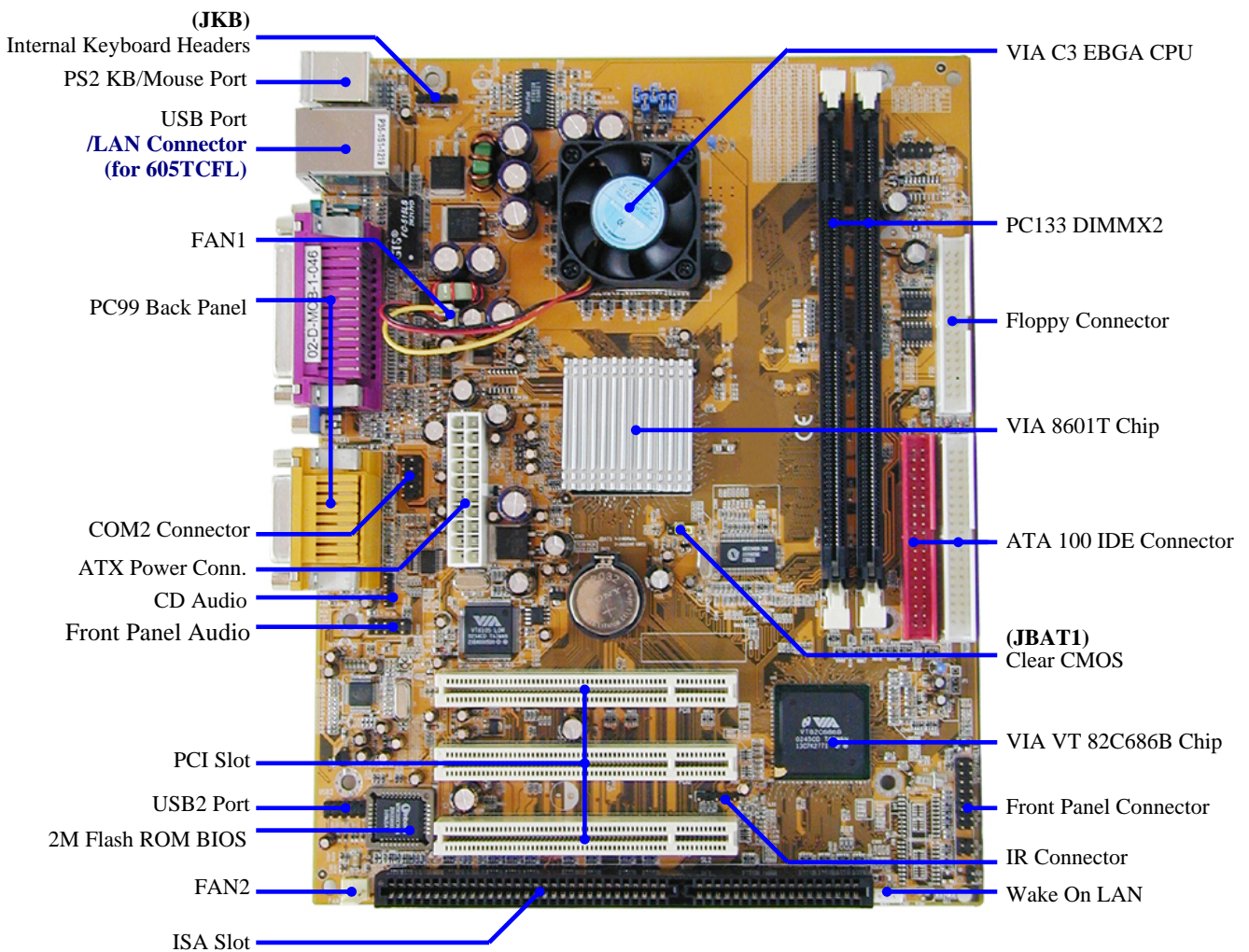
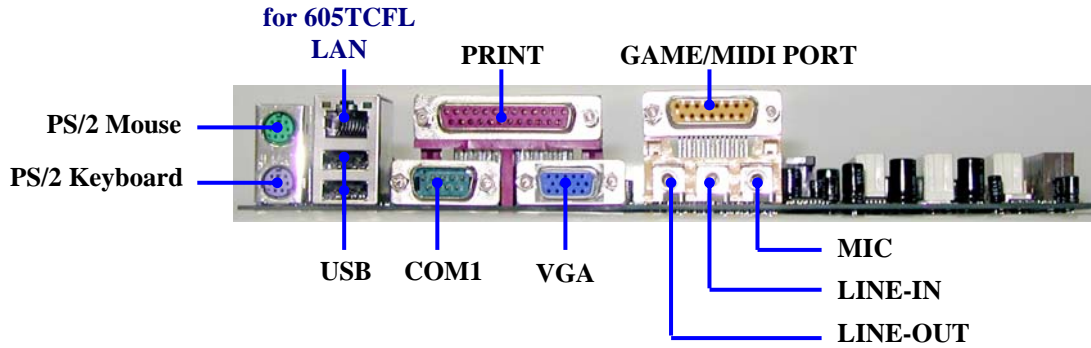
With USB control as well as capability of expanding to 4 USB connectors support four USB devices, the 605TCF/605TCFL meet future USB demand. Moreover, it has built-in hardware monitor function to monitor and protect your computer.

This motherboard provides high performance & meets future specification demand. It is really wise choice for your computer.

1-2 Specification

Spec	Description
Design	* Micro ATX form factor 4 layers PCB size: 24.4 x 19.0 cm
Chipset	* VIA Apollo PLE133T VT8601T and VT82C686B Chipset
Clock Generator	* Winbond W83194BR-39B Support 66/100/133MHz system Bus Clock (CPU Bus Clock) Support 100/133 MHz system memory clock Support 33MHz PCI Bus clock
CPU	* BravoGiga Onboard with VIA C3 processor * Support 133MHz Front Side Bus
Memory Socket	* 168-pin DIMM socket x2 * PC-100/PC-133 SDRAM * Expandable to 1GB * Support 3.3V SDRAM DIMM
Expansion Slot & Headers	* 32-bit PCI slot x3 * ISA slot x1
Integrate VGA	* 64-bit Signal Cycle 2D/3D Graphic Engine * Support 2 to 8 Mbytes of Frame Buffer
Integrate IDE	* 2 channel of Bus Master IDE port supporting ULTRA DMA 33/66/100 mode devices
Integrate LAN (for 605TCFL)	* Integrated PCI LAN Controller * Support 10/100 BASE-T Transfer rate
BIOS	* Award 2Mb Flash ROM
Multi I/O	* PS/2 keyboard and PS/2 mouse connectors * Floppy disk drive connector x1 * Parallel port x1 * Serial port x2 * USB connector x2, USB header x2 * Audio connector (Line-in, Line-out/MIC & Game Port)

1-3 Layout Diagram & Jumper Setting



Jumpers

Jumper	Name	Description	Page
JBAT1	CMOS RAM Clear	3-pin Block	p.5

Connectors

Connector	Name	Description	Page
ATX	ATX Power Connector	20-pin Block	p.8
PS1	PS/2 Mouse & PS/2 Keyboard Connector	6-pin Female	p.8
USB1	USB Port Connector	4-pin Connector	p.8
PRINT	Parallel Port Connector	25-pin Female	p.9
VGA1	VGA Port Connector	15-pin Female	p.9
LAN (for 605TCFL)	LAN Connector	RJ-45 Connector	p.9
AGC	Audio/Game Connector	3 phone jack+15-pin Connector	p.9
COM1	Serial Port COM1 Connector	9-pin Connector	p.9
FDD	Floppy Driver Connector	34-pin Block	p.9
IDE1	Primary IDE Connector	40-pin Block	p.10
IDE2	Secondary IDE Connector	40-pin Block	p.10

Headers

Header	Name	Description	Page
JKB	Internal Keyboard Headers	4-pin Block	p.11
COM2	COM2 Headers	9-pin Block	p.11
USB2	USB Port Headers	9-pin Block	p.11
HDLED	IDE activity LED	2-pin Block	p.12
TRBLED	Turbo LED switch	2-pin Block	p.12
RESET	Reset switch lead	2-pin Block	p.12
SPEAKER	Speaker connector	4-pin Block	p.12
PWLED	Power LED	2-pin Block	p.12
PWRIN	Power switch	2-pin Block	p.12
FAN1, FAN2	FAN Headers	3-pin Block	p.12
IR	IR infrared module Headers	5-pin Block	p.13
CD_IN	CD Audio-In Headers	4-pin Block	p.13
WOL1	Wake On LAN Connector	3-pin Block	p.13
AUDIO	Line-In/Out, MIC header	9-pin Block	P.14

Expansion Sockets

Socket/Slot	Name	Description	Page
DIMM1, DIMM2	DIMM Module Socket	168-pin DIMM Module Socket	p.6
PCI1, PCI2, PCI3	PCI Slot	32-bit PCI Local Bus Expansion slots	p.7
ISA	ISA Slot	16-bit ISA BUS Expansion Slot	p.7

Chapter 2

Hardware installation

2-1 Hardware installation Steps

Before using your computer, you had better complete the following steps:

1. Check motherboard jumper setting
2. Install CPU and Fan
3. Install System Memory (DIMM)
4. Install Expansion cards
5. Connect IDE and Floppy cables, Front Panel /Back Panel cable
6. Connect ATX Power cable
7. Power-On and Load Standard Default
8. Reboot
9. Install Operating System
10. Install Driver and Utility

2-2 Checking Motherboard's Jumper Setting

(1) CMOS RAM Clear (3-pin): JBAT1

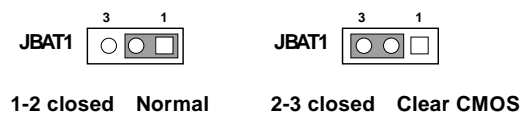
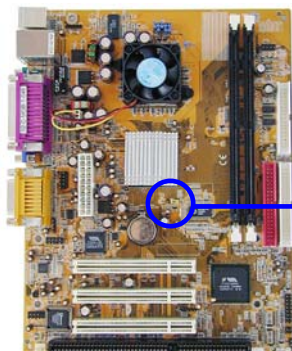
A battery must be used to retain the motherboard configuration in CMOS RAM short 1-2 pins of JBAT1 to store the CMOS data.

To clear the CMOS, follow the procedure below:

1. Turn off the system and unplug the AC power
2. Remove ATX power cable from ATX power connector
3. Locate JBAT1 and short pins 2-3 for a few seconds
4. Return JBAT1 to its normal setting by shorting pins 1-2
5. Connect ATX power cable back to ATX power connector

Note: When should clear CMOS

1. **Troubleshooting**
2. **Forget password**
3. **After over clocking system boot fail**



CMOS RAM Clear Setting

2-3 Install Memory

This motherboard provides **two** 168-pin DUAL INLINE MEMORY MODULES (DIMM) sites for memory expansion available from minimum memory size over 32MB to maximum memory size of 1GB SDRAM.

Valid Memory Configurations

DIMM1	DIMM2	System Accept or Not	Total Memory
			Min. ~ Max.
DS/SS		Accept	32MB~512MB
	DS/SS	Accept	32MB~512MB
DS/SS	DS/SS	Accept	32MB~1GB

DS : Double Sided DIMM **SS** : Single Sided DIMM

NOTE! Make sure the total installed memory does not exceeds 1GB, otherwise the system may hang during startup.

Generally, installing SDRAM modules to your motherboard is very easy, you can refer to figure 2-4 to see what a 168-Pin PC100 & PC133 SDRAM module looks like.

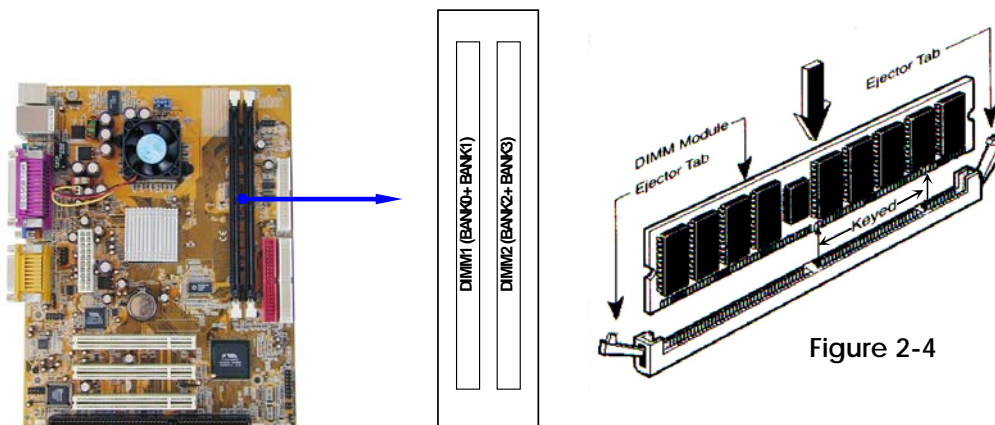


Figure 2-4

NOTE! When you install DIMM module fully into the DIMM socket the eject tab should be locked into the DIMM module very firmly and fit into its indentation on both sides.

WARNING! If the SDRAM CLOCK is set at 133MHz, you must use only PC133-compliant DIMMs. When this motherboard operate at 133Mhz, most system will not even boot if non-compliant SDRAM modules are used because of the strict timing issues, if your DIMM are not PC133-compliant, set the SDRAM clock to 100MHz to ensure system's stability.

2-4 Expansion Cards

WARNING! Turn off your power when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.

2-4-1 Procedure For Expansion Card Installation

1. Read the documentation for your expansion card and make any necessary hardware or software setting for your expansion card such as jumpers.
2. Remove your computer's cover and the bracket plate on the slot you intend to use.
3. Align the card's connectors and press firmly.
4. Secure the card on the slot with the screen you remove above.
5. Replace the computer system's cover.
6. Set up the BIOS if necessary.
7. Install the necessary software driver for your expansion card.

2-4-2 Assigning IRQs For Expansion Card

Some expansion cards need an IRQ to operate. Generally, an IRQ must exclusively assign to one use. In a standard design, there are 16 IRQs available but most of them are already in use.

Standard Interrupt Assignments

IRQ	Priority	Standard function
0	1	System Timer
1	2	Keyboard Controller
2	N/A	Programmable Interrupt
3 *	11	Communications Port (COM2)
4 *	12	Communications Port (COM1)
5 *	13	Sound Card (sometimes LPT2)
6	14	Floppy Disk Controller
7 *	15	Printer Port (LPT1)
8	3	System CMOS/Real Time Clock
9 *	4	ACPI Mode when enabled
10 *	5	IRQ Holder for PCI Steering
11 *	6	IRQ Holder for PCI Steering
12 *	7	PS/2 Compatible Mouse Port
13	8	Numeric Data Processor
14 *	9	Primary IDE Channel
15 *	10	Secondary IDE Channel

* These IRQs are usually available for ISA or PCI devices.

2-4-3 Interrupt Request Table For This Motherboard

Interrupt request are shared as shown the table below:

	INT A	INT B	INT C	INT D
PCI slot1	Not Shared	—	—	—
PCI slot2	—	—	—	Shared
PCI slot3	—	—	Not Shared	—
Onboard LAN	—	Shared	—	—
Onboard VGA	—	—	—	—
AC97/MC97	—	Shared	—	—
Onboard USB	—	—	—	Shared

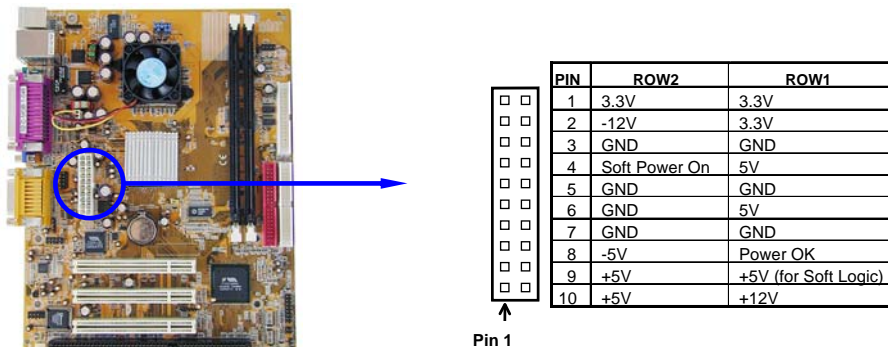
IMPORTANT! If using PCI cards on shared slots, make sure that the drivers support “Shared IRQ” or that the cards don’t need IRQ assignments. Conflicts will arise between the two PCI groups that will make the system unstable or cards inoperable.

2-5 Connectors, Headers

2-5-1 Connectors

(1) Power Connector (20-pin block) : ATX

ATX Power Supply connector. This is a new defined 20-pins connector that usually comes with ATX case. The ATX Power Supply allows to use soft power on momentary switch that connect from the front panel switch to 2-pins Power On jumper pole on the motherboard. When the power switch on the back of the ATX power supply turned on, the full power will not come into the system board until the front panel switch is momentarily pressed. Press this switch again will turn off the power to the system board.



(2) PS/2 Mouse & PS/2 Keyboard Connector: PS1

If you are using a PS/2 mouse, you must purchase an optional PS/2 mouse set which connects to the 5-pins block and mounts to an open slot on your computer’s case.

(3) USB Port connector: USB1

The connectors are 4-pins connector that connect USB devices to the system board.

(4) **Parallel Port Connector (25-pin female): PRINT**

Parallel Port connector is a 25-pin D-Subminiature Receptacle connector. The On-board Parallel Port can be disabled through the BIOS SETUP. Please refer to Chapter 3 “INTEGRATED PERIPHERALS SETUP” section for more detail information.

(5) **VGA Connector (15-pin female): VGA1**

This connector is for on board VGA display connection only. If you insert any external VGA card in PCI slot, you should have the connection to your VGA card’s connector. And you have to set “Init Display First” to PCI under Integrated Peripherals option in BIOS Setup Utility to get display from PCI VGA card.

(6) **LAN Port connector: LAN (Only for 605TCFL)**

This connector is standard RJ45 connector for Network connector.

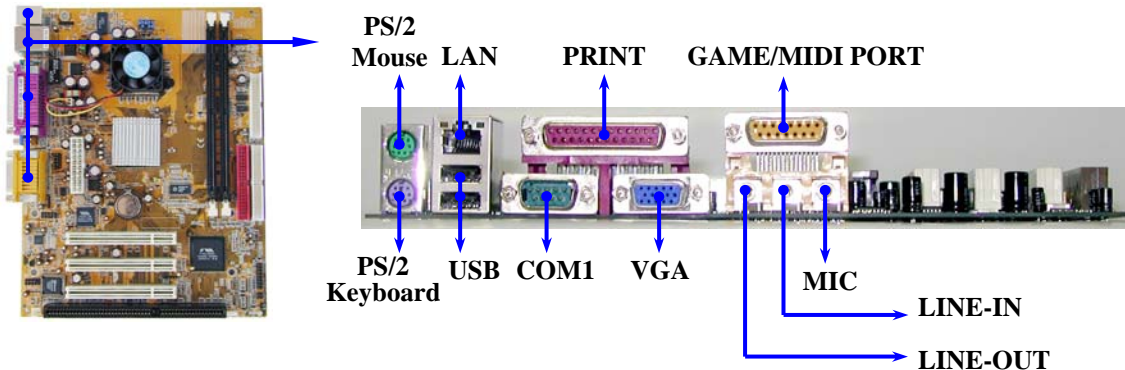
(7) **Audio and Game Connector: AGC**

This Connector are 3 phone Jack for LINE-OUT, LINE-IN, MIC and a 15-pin D-Subminiature Receptacle Connector for joystick/MIDI Device.

- Line-out :** Audio output to speaker
- Line-in :** Audio input to sound chip
- MIC :** Microphone Connector
- Game/MIDI :** For joystick or MIDI Device

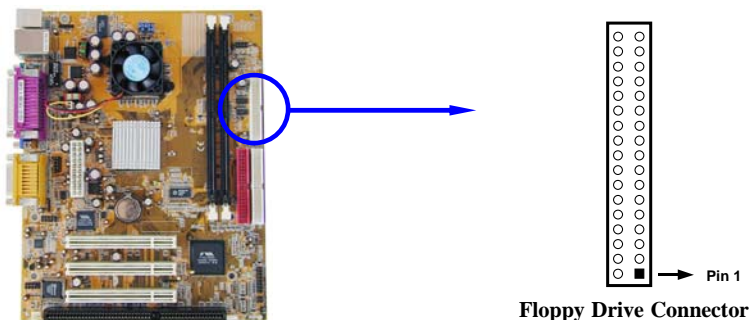
(8) **Serial Port COM1: COM1**

COM1 is the 9-pin D-Subminiature mail connector. The On-board serial port can be disabled through BIOS SETUP. Please refer to Chapter 3 “INTEGRATED PERIPHERALS SETUP” section for more detail information.



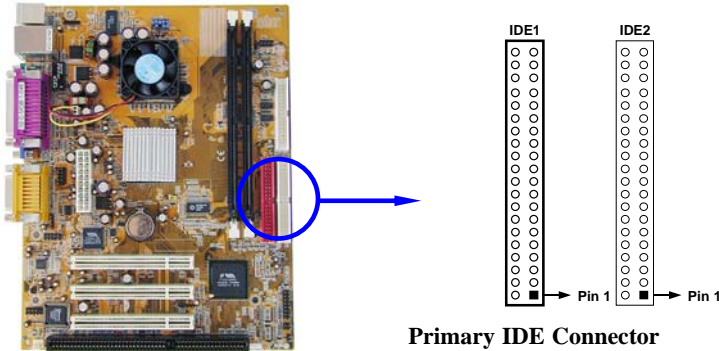
(9) **Floppy Drive Connector (34-pin block): FDD**

This connector supports the provided floppy drive ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to the floppy drives.



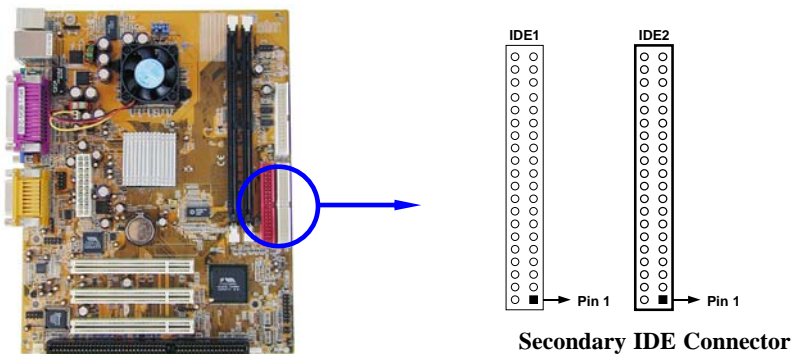
(10) **Primary IDE Connector (40-pin block): IDE1**

This connector supports the provided IDE hard disk ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to your hard disk(s). If you install two hard disks, you must configure the second drive to Slave mode by setting its jumpers accordingly. Please refer to the documentation of your hard disk for the jumper settings.



(11) Secondary IDE Connector (40-pin block): IDE2

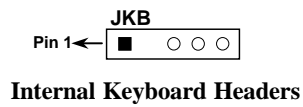
This connector connects to the next set of Master and Slave hard disks. Follow the same procedure described for the primary IDE connector. You may also configure two hard disks to be both Masters using one ribbon cable on the primary IDE connector and another ribbon cable on the secondary IDE connector.



- Two hard disks can be connected to each connector. The first HDD is referred to as the “Master” and the second HDD is referred to as the “Slave”.
- For performance issues, we strongly suggest you don’t install a CD-ROM or DVD-ROM drive on the same IDE channel as a hard disk. Otherwise, the system performance on this channel may drop.

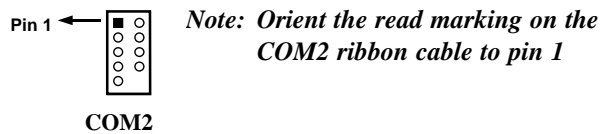
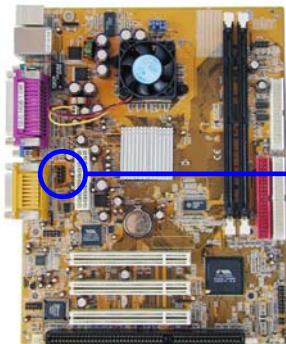
2-5-2 Headers

(1) **Internal Keyboard Headers (4-pin header) : JKB**



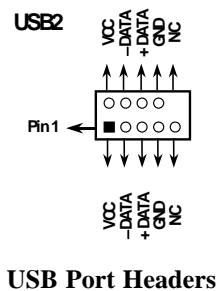
(2) **COM2 Headers (9-pin header) : COM2**

This board has another serial port COM2, it come with cable providing serial port COM2.



(3) **USB Port Headers (9-pin header): USB2**

These headers are used for connecting the additional USB port plug. By attaching an option USB cable, your can be provided with two additional USB plugs affixed to the back panel.



(4) **IDE Activity LED: HDLED**

This connector connects to the hard disk activity indicator light on the case.

(5) **Turbo LED switch: TRBLED**

Since the motherboard's turbo function is always on. The turbo LED will remain constantly on while the system power is on. You may wish to connect the Power LED from the system case to this lead. See the figure below.

(6) **Reset switch lead: RESET**

This 2-pin connector connects to the case-mounted reset switch for rebooting your computer without having to turn off your power switch. This is a preferred method of rebooting in order to prolong the life of the system's power supply. See the figure below.

(7) **Speaker connector: SPEAKER**

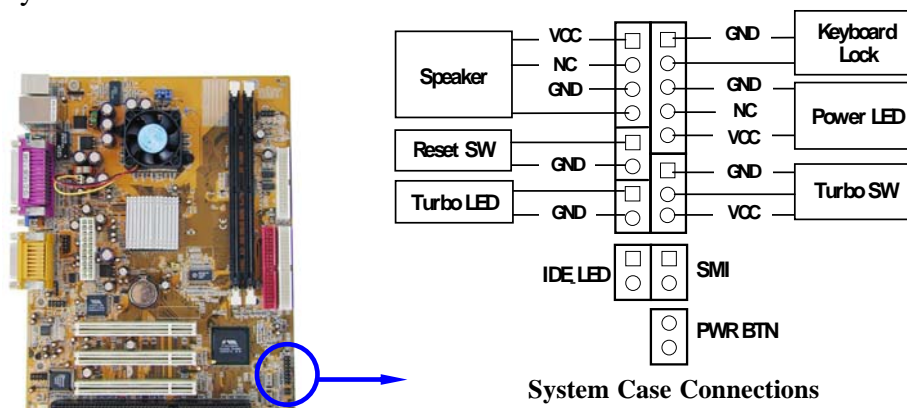
This 4-pin connector connects to the case-mounted speaker. See the figure below.

(8) **Power LED: PW LED**

The Power LED is light on while the system power is on. Connect the Power LED from the system case to this pin.

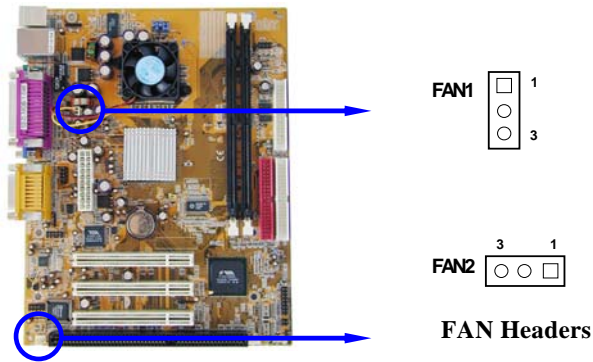
(9) **Power switch: PWRIN**

This 2-pin connector connects to the case-mounted power switch to power ON/OFF the system.



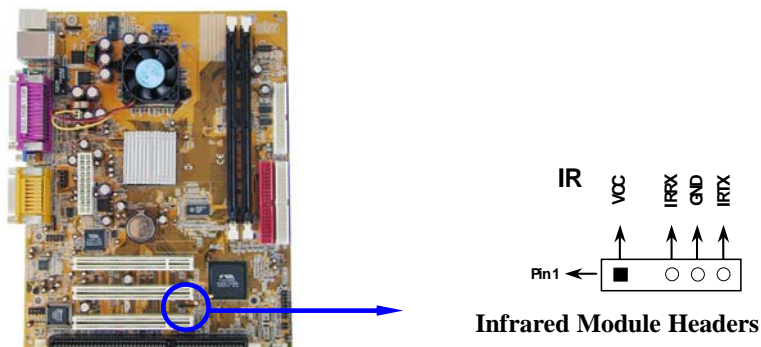
(10) **FAN Headers (3-pin) : FAN1, FAN2**

These connectors support cooling fans of 350mA (4.2 Watts) or less, depending on the fan manufacturer, the wire and plug may be different. The red wire should be positive, while the black should be ground. Connect the fan's plug to the board taking into consideration the polarity of connector.



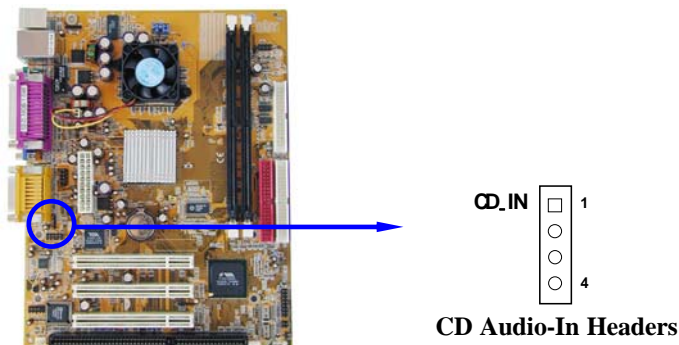
(11) IR infrared module Headers (5-pin) : IR

This connector supports the optional wireless transmitting and receiving infrared module. You must configure the setting through the BIOS setup to use the IR function.



(12) CD Audio-In Headers (4-pin) : CD_IN

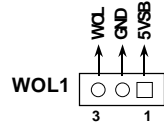
CD_IN is the connector for CD-Audio Input signal. Please connect it to CD-ROM CD-Audio output connector.



(13) Wake On-LAN Headers (3-pin) : WOL1

This connector connects to a LAN card with a WAKE ON-LAN output. This connector power up the system when a wake up signal is received through the LAN card.

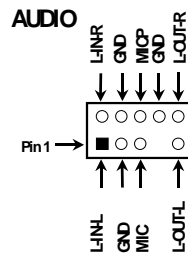
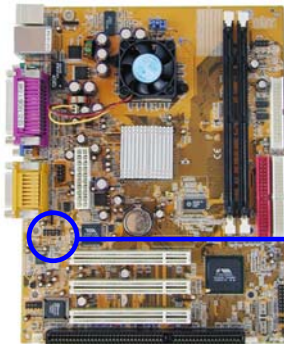
NOTE: This feature requires that BIOS Wake-Up by PCI Card is enabled.



Wake-On-LAN Headers

(14) Line-In/Out, MIC Header (9-pin): AUDIO

This header connect to Front Panel Line-In, Line-out, MIC connector with cable.



Line-In/Out, MIC Headers

2-6 Starting Up Your Computer

1. After all connections are made, close your computer case cover.
2. Be sure all the switch are off, and check that the power supply input voltage is set to proper position, usually in-put voltage is 220V~240V or 110V~120V depending on your country's voltage used.
3. Connect the power supply cord into the power supply located on the back of your system case according to your system user's manual.
4. Turn on your peripheral as following order:
 - a. Your monitor.
 - b. Other external peripheral (Printer, Scanner, External Modem etc...)
 - c. Your system power. For ATX power supplies, you need to turn on the power supply and press the ATX power switch on the front side of the case.
5. The power LED on the front panel of the system case will light. The LED on the monitor may light up or switch between orange and green after the system is on. If it complies with green standards or if it is has a power standby feature. The system will then run power-on test. While the tests are running, the BIOS will alarm beeps or additional message will appear on the screen.

If you do not see any thing within 30 seconds from the time you turn on the power. The system may have failed on power-on test. Recheck your jumper settings and connections or call your retailer for assistance.

Beep	Meaning
One short beep when displaying logo	No error during POST
Long beeps in an endless loop	No DRAM install or detected
One long beep followed by three short beeps	Video card not found or video card memory bad
High frequency beeps when system is working	CPU overheated System running at a lower frequency

6. During power-on, press <Delete> key to enter BIOS setup. Follow the instructions in BIOS SETUP.
7. **Power off your computer:** You must first exit or shut down your operating system before switch off the power switch. For ATX power supply, you can press ATX power switching after exiting or shutting down your operating system. If you use Windows 9X, click **“Start”** button, click **“Shut down”** and then click **“Shut down the computer?”** The power supply should turn off after windows shut down.

Chapter 3

Introducing BIOS

The BIOS is a program located on a Flash Memory on the motherboard. This program is a bridge between motherboard and operating system. When you start the computer, the BIOS program gain control. The BIOS first operates an auto-diagnostic test called POST (power on self test) for all the necessary hardware, it detects the entire hardware device and configures the parameters of the hardware synchronization. Only when these tasks are completed done it gives up control of the computer to operating system (OS). Since the BIOS is the only channel for hardware and software to communicate, it is the key factor for system stability, and in ensuring that your system performance as its best.

In the BIOS Setup main menu of Figure 3-1, you can see several options. We will explain these options step by step in the following pages of this chapter, but let us first see a short description of the function keys you may use here:

- Press <Esc> to quit the BIOS Setup.
- Press ↑↓←→ (up, down, left, right) to choose, in the main menu, the option you want to confirm or to modify.
- Press <F10> when you have completed the setup of BIOS parameters to save these parameters and to exit the BIOS Setup menu.
- Press Page Up/Page Down or +/- keys when you want to modify the BIOS parameters for the active option.

3-1 Entering Setup

Power on the computer and by pressing immediately allows you to enter Setup.

If the message disappears before your respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the “RESET” button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt> and <Delete> keys. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to

Press <F1> to continue, <Ctrl-Alt-Esc> or to enter Setup

3-2 Getting Help

Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

Status Page Setup Menu/Option Page Setup Menu

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

3-3 The Main Menu

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

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

Standard CMOS Features	Miscellaneous Control
Advanced BIOS Features	Load optimized Defaults
Advanced Chipset Features	Load Standard 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	
Time, Date, Hard Disk Type...	

Figure 3-1

Standard CMOS Features

Use this Menu for basic system configurations.

Advanced BIOS Features

Use this menu to set the Advanced Features available on your system.

Advanced Chipset Features

Use this menu to change the values in the chipset registers and optimize your system's performance.

Integrated Peripherals

Use this menu to specify your settings for integrated peripherals.

Power Management Setup

Use this menu to specify your settings for power management.

PnP/PCI configurations

This entry appears if your system supports PnP/PCI.

PC Health Status

This entry shows your PC health status.

Miscellaneous Control

Use this menu to specify your settings for Miscellaneous Control.

Load Optimized Defaults

Use this menu to load the BIOS default values that are factory settings for optimal performances system operations. It is provided for the convenience of power user who wants to push the motherboard to get better performance. The Optimized setting does not go through all the detail reliability and compatibility test, it is tested only with limited configuration and loading (for example, a system that contains only a VGA card and one DIMM. Use Optimized setting only when you fully understand the items in chipset setup menu.

Load Standard Defaults

Use this menu to load the BIOS default values for the optimum system performance. Standard Defaults setting are relatively safer than Optimized Defaults. All the product verification, compatibility test report and manufacture quality control are based on "Load Standard Defaults". We recommend to use this setting for normal operation. "Load Standard Defaults" is not slowest setting for this motherboard. If you need to verify an unstable problem, you may manually set the parameter in "Advanced Chipset Features" get slowest and safer setting.

Set Supervisor/User Password

Use this menu to set User and Supervisor Passwords.

Save & Exit Setup

Save CMOS value changes to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

Virus Warning

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.

Disabled (default) No warning message to appear when anything attempts to access the boot sector or hard disk partition table.

Enabled Activates automatically when the system boots up causing a warning message to appear when anything attempts to access the boot sector of hard disk partition table.

3-6 Advanced Chipset Features

The Advanced Chipset Features Setup option is used to change the values of the chipset registers. These registers control most of the system options in the computer.

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
Advanced Chipset Features

Advanced DRAM Control	[Press Enter]	Item Help
Advanced AGP Control	Press Enter	
Memory Hole	Disabled	
System BIOS Cacheable	Disabled	
Video RAM Cacheable	Disabled	Menu Level >
Memory Parity/ECC Check	Disabled	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

Note: Change these settings only if you are familiar with the chipset.

Advanced DRAM Control

Please refer to section 3-6-1

3-6-1 Advanced DRAM Control

The “Advanced DRAM Control” includes settings for the chipset dependents features. These features are related to system performance. Make sure you fully understand the items contained in this menu before you try to change anything. You may change the parameter settings to improve system performance. However, it may cause your system to be unstable if the setting is not correct for your system configuration.

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
Advanced DRAM Control

Auto Configuration	[Optimized]	Item Help
Precharge Command	3T	
Active to CMD Command	6T	
Write Recovery Time	2T	
SDRAM Cycle Length	By SPD	Menu Level >>
Bank Interleave	By SPD	
DRAM Drive Strength	Auto	
Delay DRAM Read Latch	1.0 ns	
Memory Data Drive	Normal	
Memory CMD Drive	Strong	
DDSKEW/REFCLK Delay	No Delay	
In-Order Queue	1-Level	
P2C/C2P Concurrency	Disabled	
Fast R-W Turn Around	Disabled	
I/O Recovery Time	Disabled	
CPU to PCI Write Buffer	Enabled	
PCI Dynamic Bursting	Disabled	
PCI Master 0 WS Write	Disabled	
PCI Delay Transaction	Disabled	
PCI#2 Access #1 Retry	[Disabled]	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

Precharge Command

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. *Fast* gives faster performance; and *Slow* gives more stable performance. This field applies only when synchronous DRAM is installed in the system. The settings are: 2 and 3.

Active Command

This field let's you insert a timing delay between the CAS and RAS strobe signals, used when DRAM is written to, read from, or refreshed. *Fast* gives faster performance; and *Slow* gives more stable performance. This field applies only when synchronous DRAM is installed in the system. The settings are: 2 and 3.

Active to CMD Command

Select the number of SCLKs for an access cycle. The settings are: 5/7 and 6/8.

SDRAM Cycle Length

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing. The settings are: 2 and 3.

PCI Delay Transaction

The chipset has an embedded 32-bit posted write buffer to support delay transactions cycles. Select Enabled to support compliance with PCI specification version 2.1. The settings are: Enabled and Disabled.

3-7 Integrated Peripherals

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

Integrated Peripherals

> OnChip IDE Function	[Press Enter]	Item Help
> OnChip DEVICE Function	Press Enter	
> OnChip SUPERIO Function	Press Enter	
Init Display First	PCI Slot	Menu Level >
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

OnChip IDE Function

Please refer to section 3-7-1

OnChip DEVICE Function

Please refer to section 3-7-2

OnChip SUPERIO Function

Please refer to section 3-7-3

Init Display First

This item allows you to decide to activate whether PCI Slot or AGP VGA first. The settings are: PCI Slot, AGP Slot.

3-7-1 OnChip IDE Function

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
OnChip IDE Function

OnChip IDE Channel0	[Enabled]	Item Help
OnChip IDE Channel1	Enabled	Menu Level >>
IDE 32bit Transfer Mode	Disabled	
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	
IDE HDD Block Mode	Enabled	
IDE Prefetch Mode	Disabled	

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

3-7-2 OnChip DEVICE Function

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
OnChip DEVICE Function

OnChip AUDIO Function	[Press Enter]	
VIA LAN Function	Enabled → (For 605TCFL)	Menu Level >>
OnChip USB	Enabled	
USB Keyboard Support	Disabled	

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

3-7-3 OnChip SUPERIO Function

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
OnChip SUPERIO Function

Onboard FDD Function	[Enable]	Item Help
Onboard Serial Port 1	Auto	Menu Level >>
Onboard Serial Port 2	Auto	
UART 2 Mode	Normal	
IR Duplex Mode	Half	
TX,RX Inverting enable	Ho, Yes	
Onboard Parallel Port	378/IRQ7	
Onboard Parallel Mode	SPP	
ECP Mode Use DMA	3	
Parallel Port EPP Type	EPP1.9	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

3-8 Power Management Setup

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

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
Power Management Setup

ACPI Function	[Enabled]	Item Help	
> Power Management	Press Enter	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:Optimized Defaults F7:Standard Defaults			

Wake-Up Events

Please refer to section 3-8-2

3-8-1 Power Management

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
Power Management

Power Management	[User Define]	Item Help
HDD Power Down	Disabled	Menu Level >>
Doze Mode	Disabled	
Suspend Mode	Disabled	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

3-8-2 Wake Up Events

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
Wake Up Events

VGA	[OFF]	Item Help
LPT & COM	LPT/COM	Menu Level >>
HDD & FDD	ON	
PCI Master	OFF	
Modem Ring Resume	Disabled	
RTC Alarm Resume	Disabled	
x Date (of Month)	0	
x Resume Time (hh:mm:ss)	0 : 7 : 0	
> IRQs Activity Monitoring	Press Enter	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

IRQs Activity Monitoring

Please refer to section 3-8-2.1

3-8-2.1 IRQs Activity Monitoring

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

IRQs Activity Monitoring

Primary INTR	[ON]	Item Help
IRQ3 (COM 2)	Enabled	Menu Level >>>
IRQ4 (COM 1)	Enabled	
IRQ5 (LPT 2)	Enabled	
IRQ6 (Floppy Disk)	Enabled	
IRQ7 (LPT 1)	Enabled	
IRQ8 (RTC Alarm)	Disabled	
IRQ9 (IRQ2 Redir)	Disabled	
IRQ10 (Reserved)	Disabled	
IRQ11 (Reserved)	Disabled	
IRQ12 (PS/2 Mouse)	Enabled	
IRQ13 (Coprocessor)	Enabled	
IRQ14 (Hard Disk)	Enabled	
IRQ15 (Reserved)	Disabled	

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

3-9 PnP/PCI Configuration Setup

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

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software

PnP/PCI Configurations

PNP OS Installed	[No]	Item Help
Reset Configuration Data	Disabled	Menu Level > Default is 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 OS cannot boot
Resources Controlled By	Auto(ESCD)	
x IRQ Resources	Press Enter	
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:Optimized Defaults F7:Standard Defaults

Resource Controlled By

The Award Plug and Play BIOS has the capacity to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows®95/98. If you set this field to “manual” choose specific resources by going into each of the sub menu that follows this field (a sub menu is preceded by a “>”).

The settings are: Auto (ESCD), Manual.

IRQ Resources

When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt.

PCI/VGA Palette Snoop

Leave this field at *Disabled*. The settings are Enabled, Disabled.

3-10 PC Health Status

This section shows the Status of you CPU, Fan, Warning for overall system status. This is only available if there is Hardware Monitor onboard.

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
PC Health Status

Show PC Health in Post	[Enabled]	Item Help
Vcore	1.91V	
2.5V	2.50V	
3.3V	3.40V	
5V	5.10V	Menu Level >
12V	11.95V	
Current CPU Temp.	33°C/91°F	
Current System Temp.	21°C/69°F	
Current FAN1 Speed	5100 RPM	
Current CPUFAN2 Speed	0	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults		

Show PC Health in Post

During Enabled, it displays information list below. The choice is either Enabled or Disabled

Current CPU Temperature/Current System Temp/Current FAN1,FAN2 Speed/Vcore/Vtt/Vcc3.3/+5V/+12V/-12V/-5V (V)

This will show the CPU/FAN/System voltage chart and FAN Speed.

3-11 Miscellaneous Control

This section is for setting CPU Frequency Control.

CMOS Setup Utility - Copyright(C) 1984-2003 Award Software
Miscellaneous Control

Auto Detect DIMM/PCI Clock Enabled Spread Spectrum Disabled ** Current DRAM Clock is 66MHz ** DRAM Clock at Next Boot is [66]MHz	Item Help
	Menu Level >
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Optimized Defaults F7:Standard Defaults	

Auto Detect DIMM/PCI Clock

This item allows you to enable/disable auto detect DIMM/PCI Clock.
The settings are: Enabled, Disabled.

Spread Spectrum

This item allows you to set the CPU Host/PCI clock Spread Spectrum.
The choice are: Disabled and Enabled.

DRAM Clock at Next Boot is

This item allows you to select SDRAM Frequency to add or to decrease.

3-12 Load Standard/Optimized Defaults

Load Standard Defaults

When you press <Enter> on this item, you get confirmation dialog box with a message similar to:

Load Standard Defaults (Y/N)? N

Pressing <Y> loads the BIOS default values for the most stable, minimal-performance system operations.

Load Optimized Defaults

When you press <Enter> on this item, you get a confirmation dialog box with a message similar to:

Load Optimized Defaults (Y/N)? N

Pressing <Y> loads the default values that are factory settings for optimal performance system operations.

3-13 Set Supervisor/User Password

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

Supervisor password: Can enter and change the options of the setup menus.

User password: Can only enter but do not have the right to change the options of the setup menus. When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

ENTER PASSWORD:

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

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

PASSWORD DISABLED.

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

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

You determine when the password is required within the BIOS Features Setup Menu and its Security option. If the Security option is set to “System”, the password will be required both at boot and at entry to Setup. If set to “Setup”, prompting only occurs when trying to enter Setup.

Chapter 4

DRIVER & FREE PROGRAM INSTALLATION

Check your package and there is A MAGIC INSTALL CD included. This CD consists of all DRIVERS you need and some free application programs and utility programs. In addition, this CD also include an auto detect software which can tell you which hardware is installed, and which DRIVERS needed so that your system can function properly. We call this auto detect software MAGIC INSTALL.

MAGIC INSTALL Supports WINDOWS 95/98/98SE/ME/NT4.0/2000/XP

Insert CD into your CD-ROM drive and the MAGIC INSTALL Menu should appear as below. If the menu does not appear, double-click MY COMPUTER/double-click CD-ROM drive or click START/click RUN/type X:\SETUP.EXE (assuming X is your CD-ROM drive).



From MAGIC INSTALL MENU you may make 11 selections:

1. VIA 4 IN 1 install VIA Service Pack 4 IN 1 driver
2. VGA install on-board VGA driver
3. SOUND install AC97 Audio Codec Installing driver
4. LAN install VIA 6105 LAN controller driver **(for 605TCFL)**
5. PC-HEALTH install VIA PC-HEALTH hardware monitor driver
6. Magic BIOS install BIOS Live Update Utility
7. PC-CILLIN install PC-CILLIN 2002 anti-virus program
8. DIRECTX8 install Microsoft DirectX 8.1 driver
9. MiniportIDE install IDE driver for ZIP device
10. BROWSE CD to browse the contents of the CD
11. EXIT to exit from MAGIC INSTALL menu

Each selection is illustrated as below:

4-1 VIA 4 IN 1 Install VIA Service Pack 4 IN 1 Driver

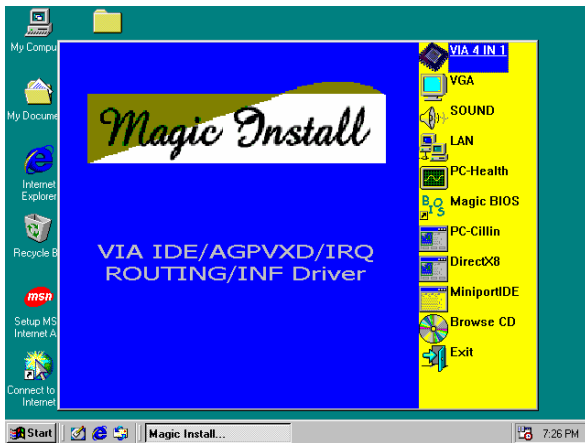
* The path of the file is X:\VIA\DRIVER\SETUP.EXE

IDE : VIA ATAPI VENDOR SUPPORT DRIVER IS USED TO FIXED COMPATIBILITY ISSUE FOR IDE DEVICES

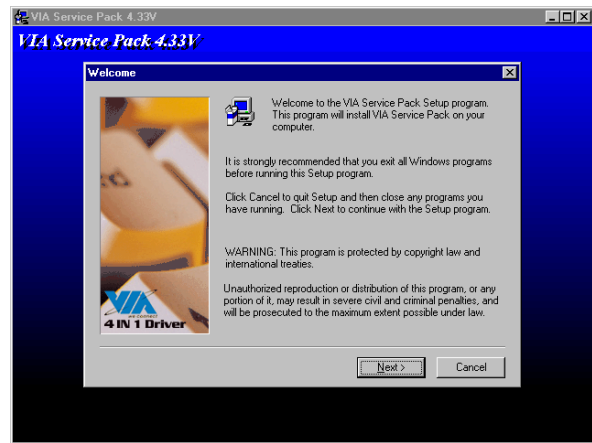
AGPVXD : VIA AGPVXD DRIVER IS TO BE INSTALLED, IF YOU ARE USING AN AGP VGA CARD, VIAGART.VXD WILL PROVIDE SERVICE ROUTINES TO YOUR VGA DRIVER AND INTERFACE DIRECTLY TO HARDWARE, PROVIDING FAST GRAPHIC ACCESS

IRQ ROUTING : VIA PCI IRQ MINIPOINT DRIVER IS TO BE INSTALLED UNDER WIN98 ONLY, IT WILL FIX PCI IRQ ROUTING SEQUENCE

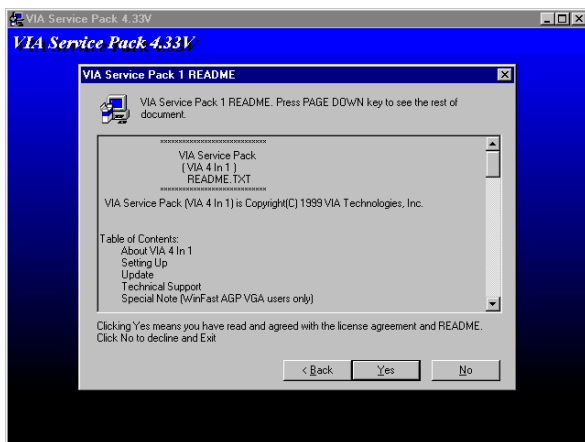
INF : VIA REGISTRY DRIVER IS TO BE INSTALLED UNDER WINDOWS THE DRIVER WILL ENABLE VIA POWER MANAGERMENT CONTROLLER



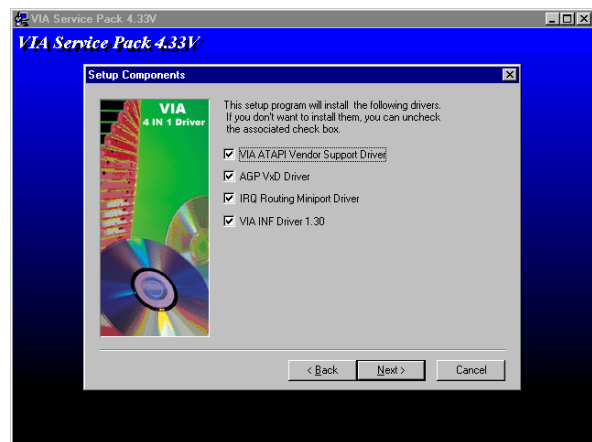
1. Click IDE when MAGIC INSTALL MENU appears



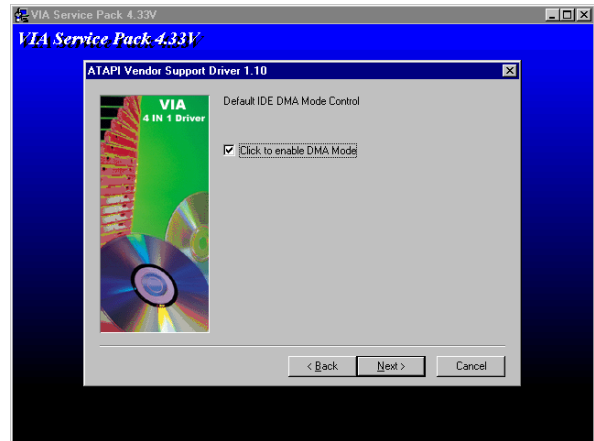
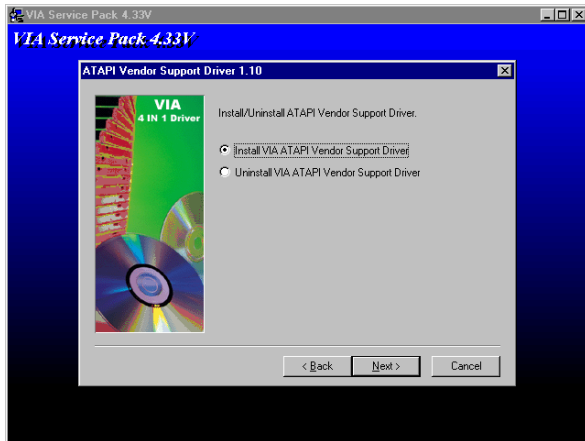
2. Click NEXT when VIA Service Pack Wizard appears



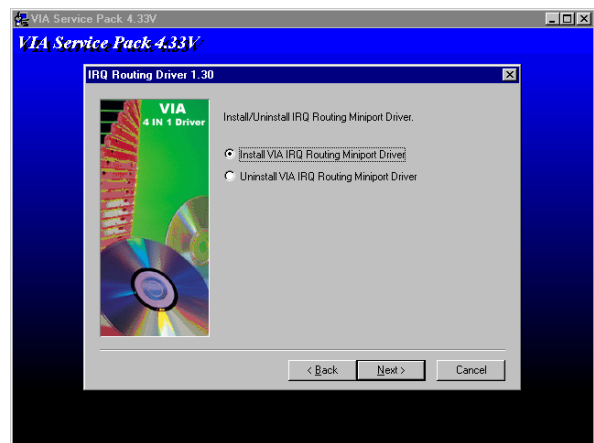
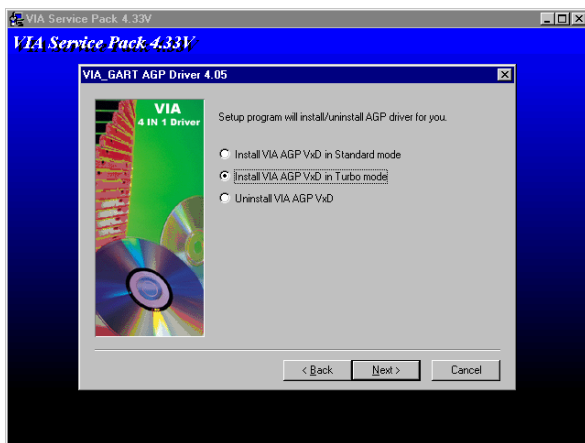
3. This is to announce the Copy Write, click Yes



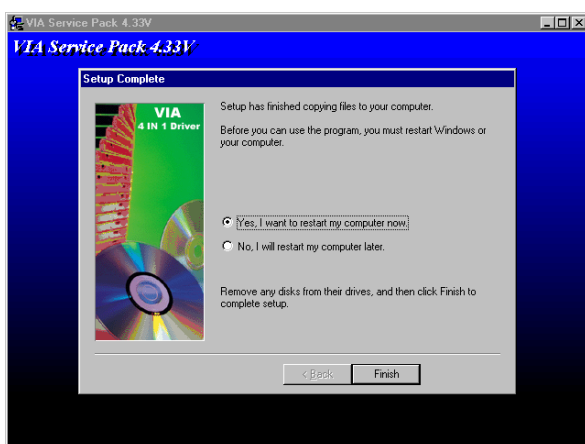
4. Click NEXT to choose all driver



5. Click NEXT to Install ATAPI Vendor Support Driver
6. Click NEXT to choose enabled DMA Mode



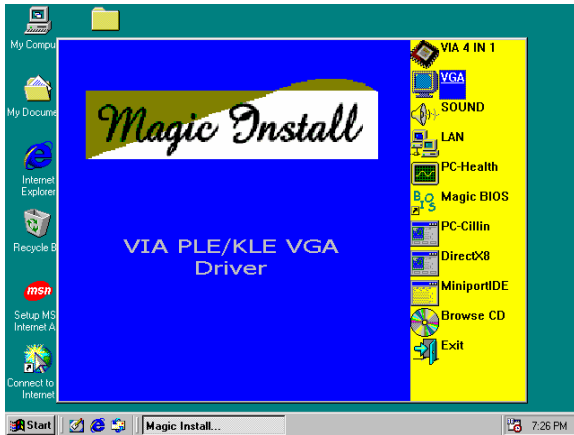
7. Click NEXT to Install VIA AGP VXD Driver
8. Click NEXT to Install VIA IRQ Routing Mini port Driver



9. Click Finish to restart computer

4-2 VGA Install VIA 8601 VGA Driver

For WINDOWS 95/98/98SE/ME/NT4.0/2000



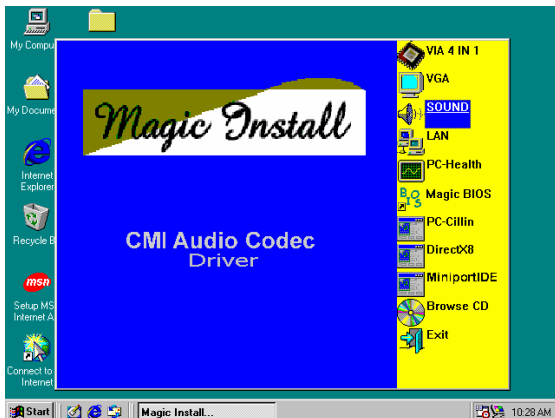
1. Click VGA when MAGIC INSTALL MENU appears
2. Click NEXT when VIA Display Driver Setup appears



3. Click FINISH to Restart Computer

NOTE: The path of the file
For WINDOWS 95/98/98SE is X:\VIA\8601VGA\WIN9X\SETUP.EXE
For WINDOWS ME is X:\VIA\8601VGA\WINME\SETUP.EXE
For NT4.0 is X:\VIA\8601VGA\NT4\SETUP.EXE
For WINDOWS 2000 is X:\VIA\8601VGA\WIN2000\SETUP.EXE

4-3 SOUND Install Audio Codec Driver



1. Click SOUND when MAGIC INSTALL MENU appears



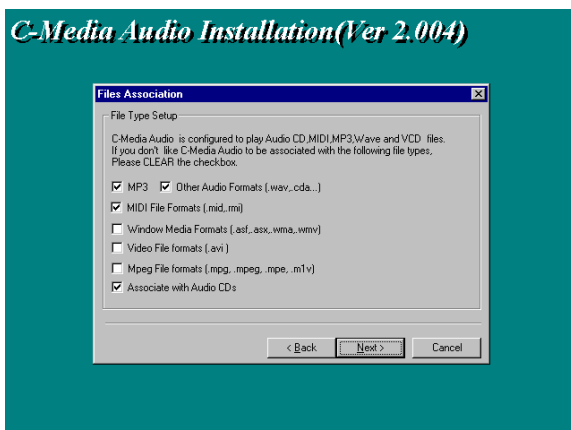
2. Choose Install component in Installation Package



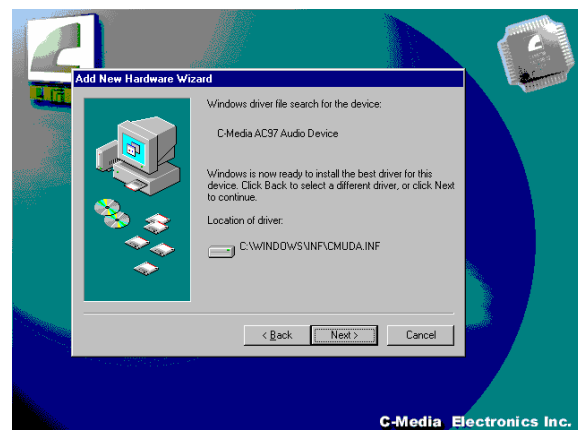
3. Click Next when copyright Issue appears, click Next or choose BROWSE to change the path for the file to be store



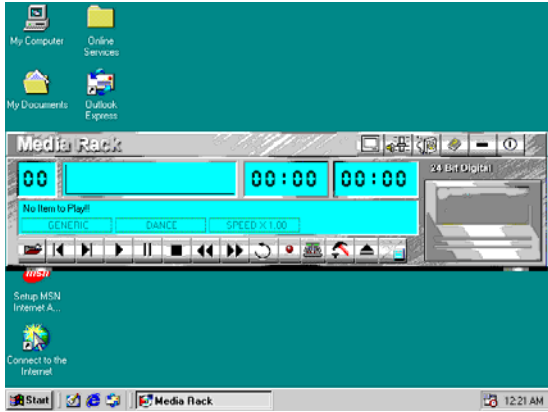
4. Enter Program folders name or click Next



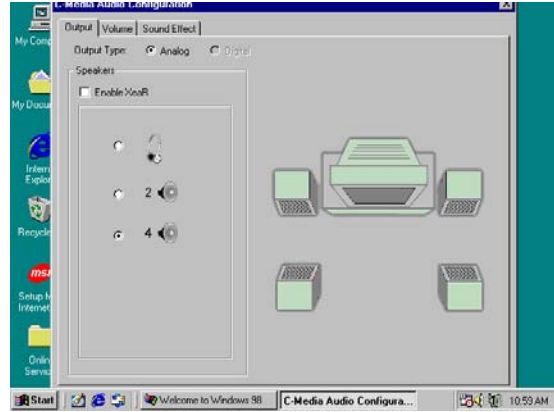
5. C-Media Media Rack can Auto Play following Format file choose need component and Click Next



6. Click Next when Start copying files windows appears, OS can Auto Find C-Media AC97 Audio Device Click Next



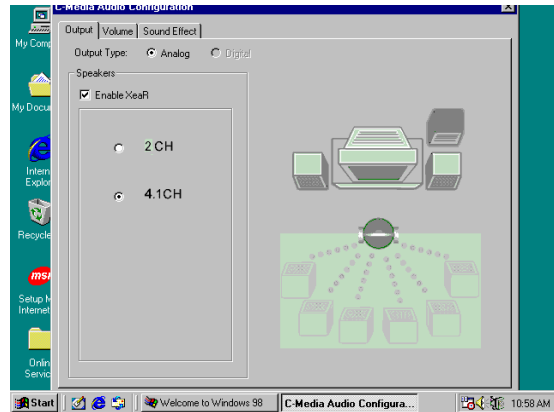
7. C-Media Media Rack Play table



8. C-Media Audio Configuration setting

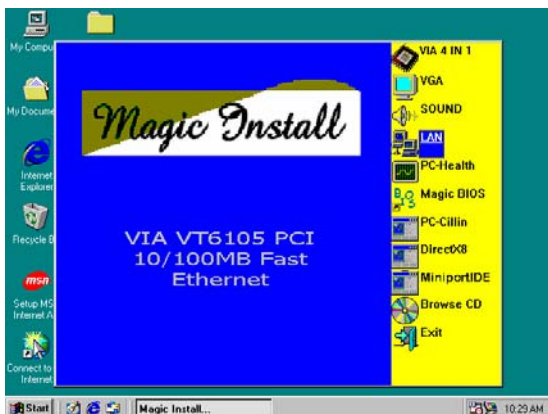


9. C-Media Multi-Channel Audio Demo Program, you can Test speaker position

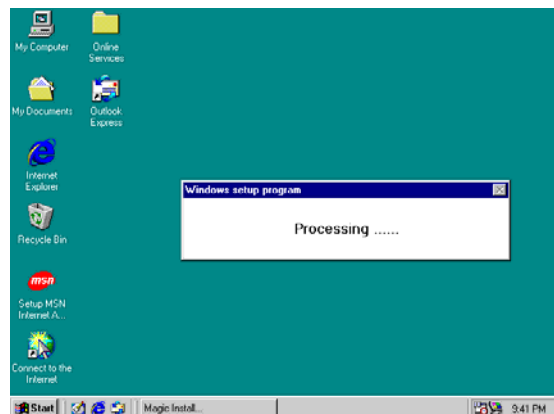


10. When Enabled XeaR, you can plug earphone in Speak-Out connector as a Rear speaker, and 2-channel speaker plug in Line-In as Front Speaker to get 4-channel effect

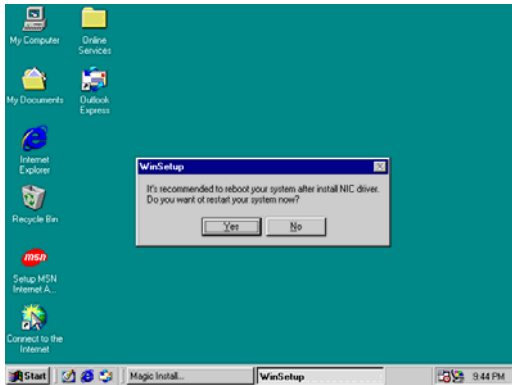
4-4 LAN Install VIA6105 LAN Controller Driver (Only for 605TCFL) WINDOWS 98SE/98ME/2000/XP Setup



1. Click LAN when Magic Install Menu appear

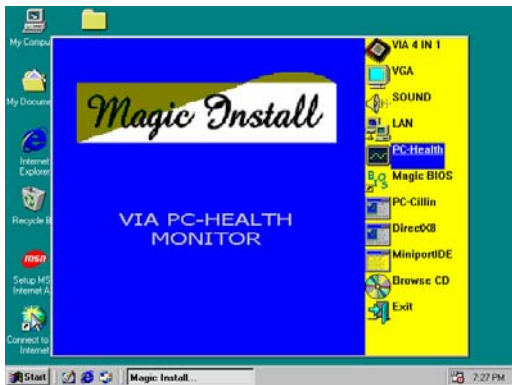


2. Install VIA VT6105 PCI 10/100M Fast Ethernet Driver



3. Select YES and Restart your computer
X:\RTLLAN\WIN98 (If OS is win9X)

4-5 PC-HEALTH Install VIA Hardware Monitor Driver



1. Click PC-HEALTH when Magic Install MENU appears



2. Click NEXT when VIA Hardware Monitor Wizard appears

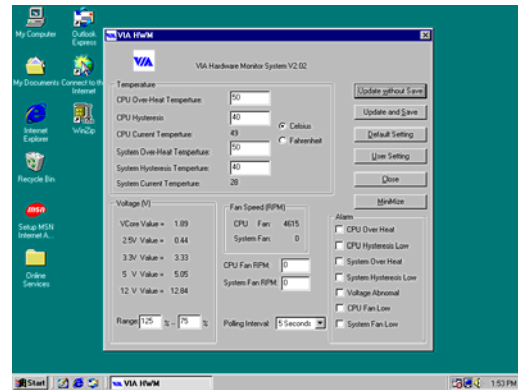
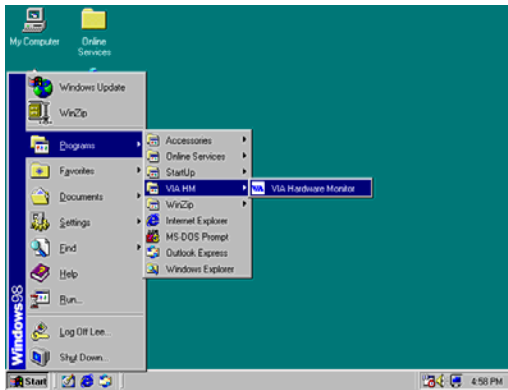


3. Click Next to install Driver in C:\VIAHM



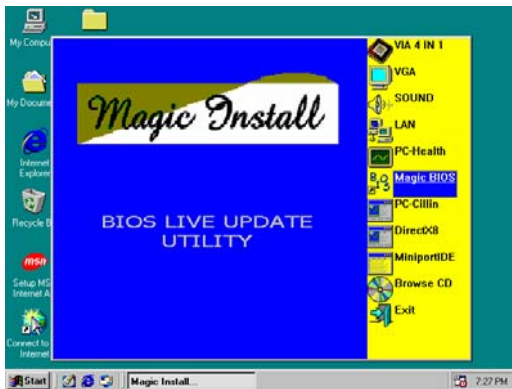
4. Click Next to use default Program Folders name

4-5-1 How To Use VIA Hardware Monitor Application Software



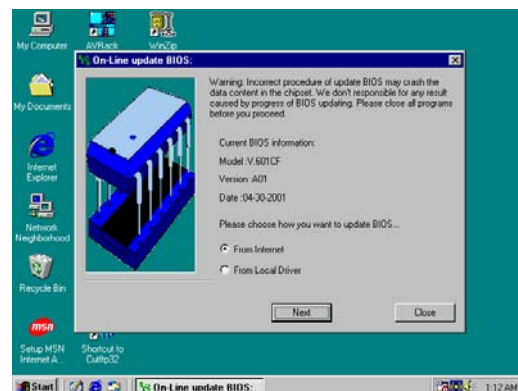
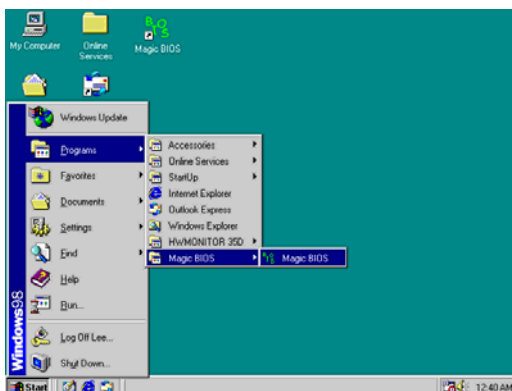
1. Click Programs, VIA HM and will show next screen

4-6 MAGIC BIOS Install BIOS Live Update Utility



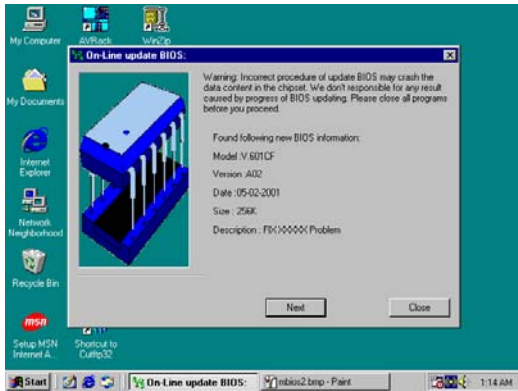
1. Click Magic BIOS when Magic Install MENU appears

2. Click Next to install the Magic BIOS in Destination Folder

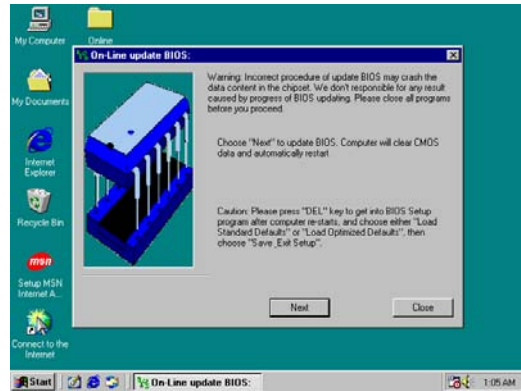


3. After finish Setup you will have a Magic BIOS icon in your screen

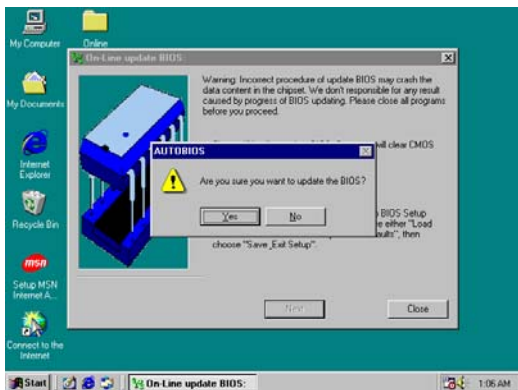
4. Double click the Magic BIOS icon you will have this picture, choose from internet you can upgrade BIOS On-line



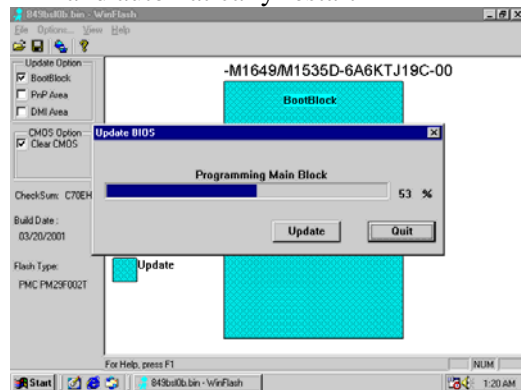
5. When On-line update BIOS the program will auto-check your BIOS version



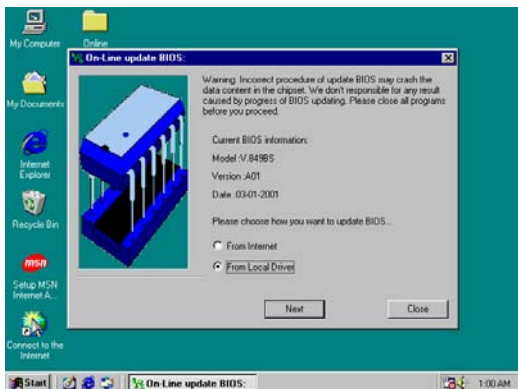
6. Click Next if you need update BIOS, after upgrade BIOS, the system will clear CMOS and automatically restart



7. Click Yes if you want to update the BIOS otherwise choose No to exit



8. When System programming BIOS don't turn off power, after finish update BIOS, the system will clear CMOS and automatically Restart



9. When choose From Local Driver to update BIOS, you must have the correct BIOS file in your Local Driver

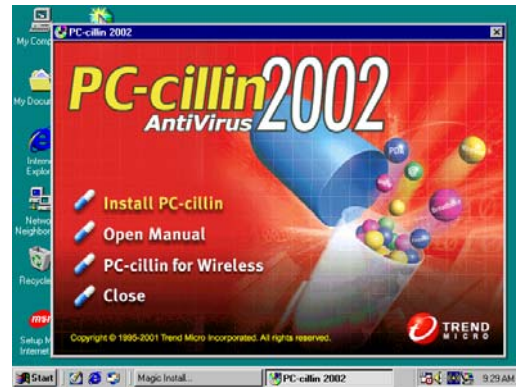


10. Choose the correct BIOS file to update BIOS

4-7 PC-CILLIN Install PC-CILLIN 2002 Anti-virus program

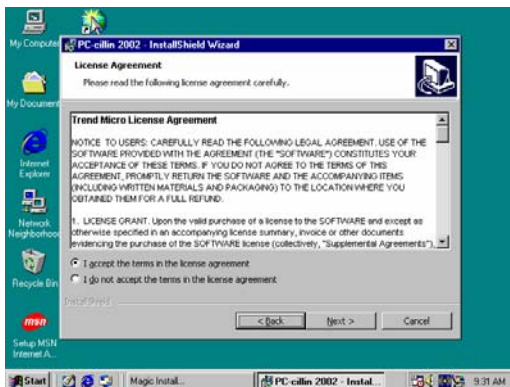


1. Click PC-CILLIN when MAGIC INSTALL MENU appear

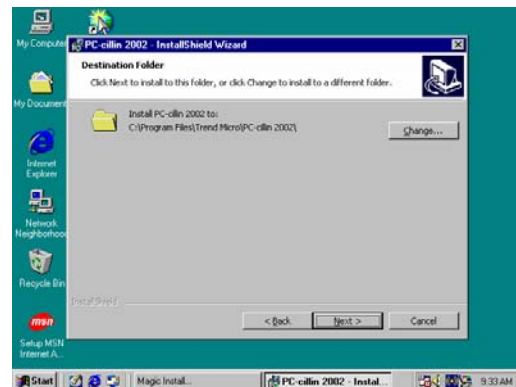


2. (1) Click "Install PC-CILLIN" when PC-CILLIN 2002 main menu appears, and Click NEXT when "Install Shield Wizard For PC-CILLIN 2002"

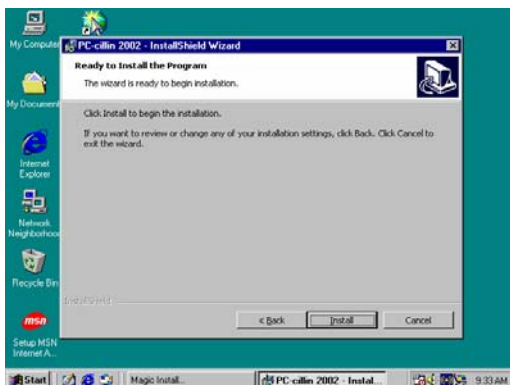
(2) Click Open Manual. you can learn PC-CILLIN 2002 how to use



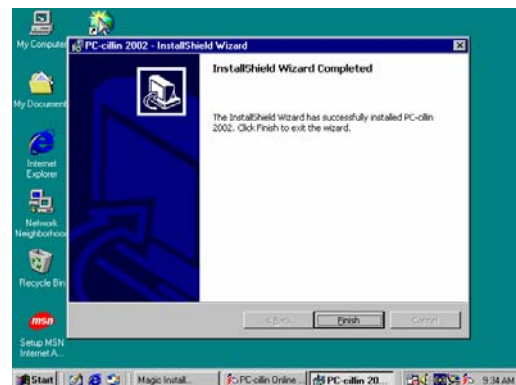
3. This is license agreement, select "I Accept the terms" and Click NEXT



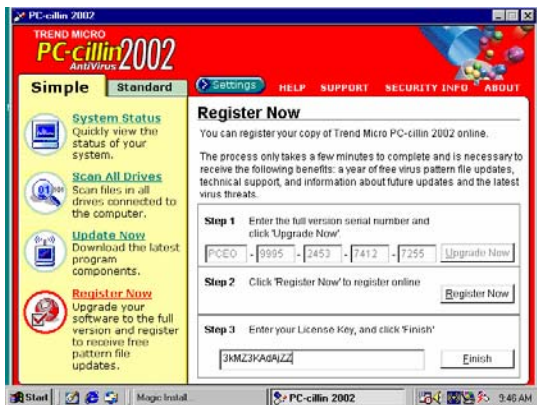
4. Click NEXT and Enter your Customer Information, Click NEXT or choose Change to change the path for the file to be stored



5. Click INSTALL, Start to install the software



6. Setup Complete and click FINISH



7. After PC-CILLIN 2002 complete, Please register your information and get LICENSE KEY from TREND MICRO web site, enter your license key and click FINISH

8. Finish register process, we recommend select update item to download newest engine code and virus code

Note : Please install ACROBAT READER, Before you read PC-CILLIN 2002 User Manual, the path at X:\acrobat\ar500eng.exe

4-8 HOW TO DISABLE ON-BOARD SOUND

Enter BIOS SETUP choose INTEGRATE PERIPHERALS choose ON-CHIP DEVICE FUNCTION choose AC97 AUDIO Disable on-board sound function by press PAGE DOWN KEY to Disable

4-9 HOW TO UPDATE BIOS

Method 1. Use “Magic BIOS” update BIOS in Windows 98 (refer [page 37](#))

Method 2. In DOS Mode

STEP 1. Prepare a boot disc. (you may make one by click START click RUN type SYS A: click OK)

STEP 2. Copy utility program to your boot disc. You may copy from DRIVER CD X:\FLASH\AWDFLASH.EXE or download from our web site.

STEP 3. Copy latest BIOS for 605TCF from our web site to your boot disc.

STEP 4. Insert your boot disc into A:,

start the computer, type “Awdflash A:\605TCFxxx.BIN/SN/PY/CC/R”

605TCFxxx.BIN is the file name of latest BIOS it can be 605TCFA3.BIN or 605TCFB2.BIN

SN means don't save existing BIOS data

PY means renew existing BIOS data

CC means clear existing CMOS data

R means restart computer

STEP 5. Push ENTER and the BIOS will be updated, computer will be restarted automatically.