

GA-PCV2 Series

VIA PC-1000/PC-1500 Processor Motherboard

User's Manual

Rev. 1001

12ME-PCV2DVI-1001R

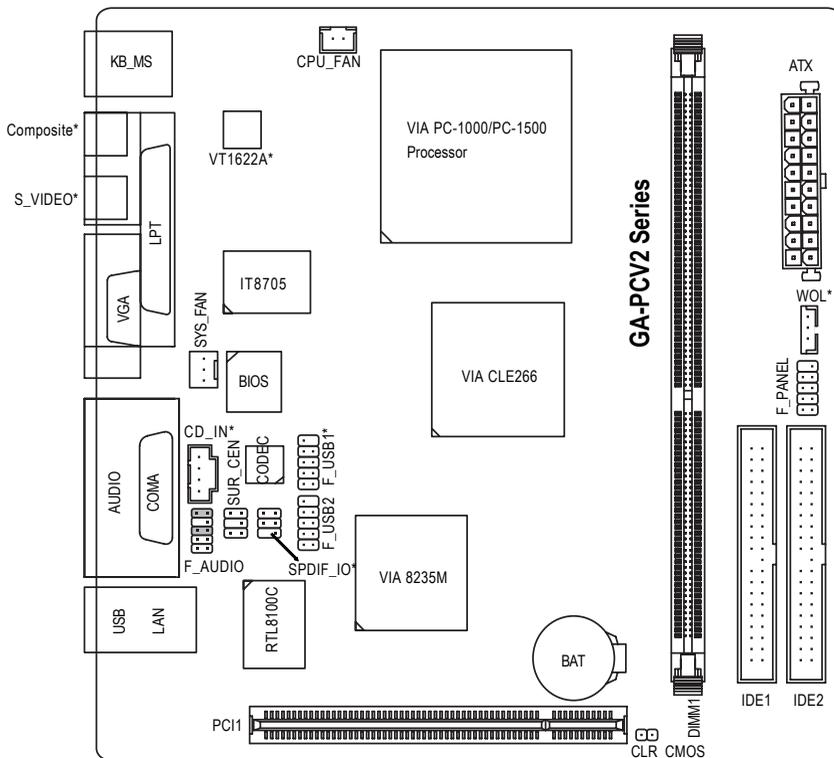


* The WEEE marking on the product indicates this product must not be disposed of with user's other household waste and must be handed over to a designated collection point for the recycling of waste electrical and electronic equipment!!



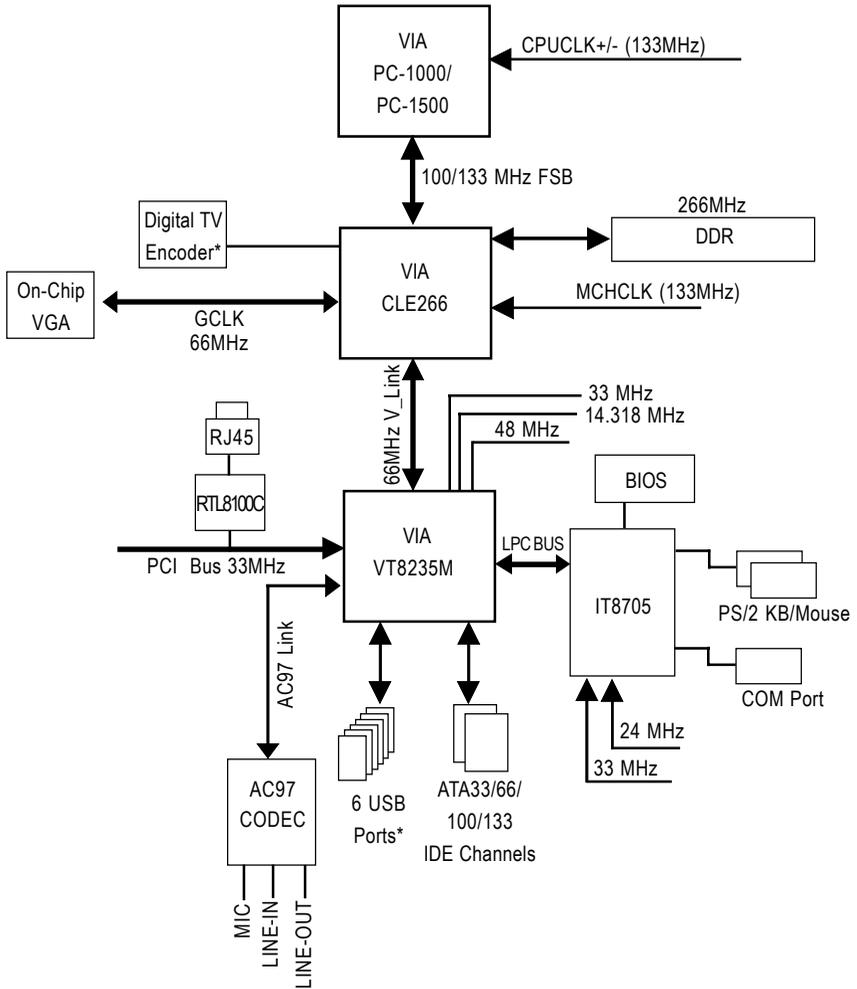
* The WEEE marking applies only in European Union's member states.

GA-PCV2 Series Motherboard Layout



*** Only for the GA-PCV2-DVI.

Block Diagram



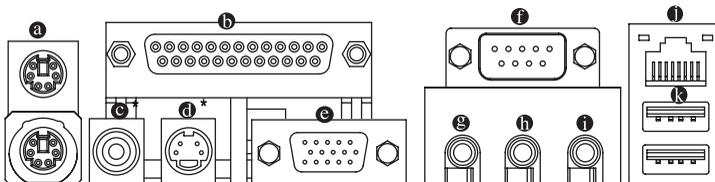
*** Only for the GA-PCV2-DVI.

1-1 Feature Summary

Motherboard	<ul style="list-style-type: none"> ♦ GA-PCV2 series (-CSI, -DSI, -DVI)
CPU	<ul style="list-style-type: none"> ♦ Supports VIA®PC-1000 Samuel2 800MHz CPU (only for GA-PCV2-CSI) ♦ Supports VIA®PC-1500 Nehemiah 1GHz CPU (only for GA-PCV2-DSI/DVI) ♦ Supports 100/133MHz FSB
Chipset	<ul style="list-style-type: none"> ♦ Northbridge:VIA CLE266 ♦ Southbridge: VIA VT8235M
Memory	<ul style="list-style-type: none"> ♦ 1 184-pin DDR DIMM slot ♦ Supports DDR266 DIMM ♦ Supports up to 1GB (Max.)
Slots	<ul style="list-style-type: none"> ♦ 1 PCI slot
IDE Connections	<ul style="list-style-type: none"> ♦ 2 IDE connection (UDMA 33/ATA 66/ATA 100/ATA133), allows connection of 4 IDE devices
Peripherals	<ul style="list-style-type: none"> ♦ 1 parallel port supporting Normal/EPP/ECP mode ♦ 1 VGA port, 1 COM port ♦ TV OUT connection (Composite+S-Video)* ♦ 6 USB 2.0/1.1 ports (rear x 2, front x 4 via cable, for GA-PCV2-DVI) ♦ 4 USB 2.0/1.1 ports (rear x 2, front x 2 via cable, for GA-PCV2-DSI/CSI) ♦ 1 front audio connector ♦ 1 PS/2 keyboard port ♦ 1 PS/2 mouse port
Onboard VGA	<ul style="list-style-type: none"> ♦ Built-in VIA CLE266 Chipset
Onboard LAN	<ul style="list-style-type: none"> ♦ Onboard RTL8100C chip (10/100 Mbit) ♦ 1 RJ45 port
Onboard Audio	<ul style="list-style-type: none"> ♦ Realtek ALC655 CODEC ♦ Supports Line In ; Line Out ; MIC In ♦ Supports 2 / 4 / 6 channel audio ♦ SPDIF In/Out connection* ♦ CD In connection*
I/O Control	<ul style="list-style-type: none"> ♦ IT8705
Hardware Monitor	<ul style="list-style-type: none"> ♦ System voltage detection ♦ CPU temperature detection
BIOS	<ul style="list-style-type: none"> ♦ Use of licensed AWARD BIOS
Overclocking	<ul style="list-style-type: none"> ♦ Over Clock via BIOS (CPU)
Form Factor	<ul style="list-style-type: none"> ♦ Mini-ITX form factor; 170mm x 170mm

*** Only for the GA-PCV2-DVI.

1-2 I/O Back Panel Introduction



Ⓐ PS/2 Keyboard and PS/2 Mouse Connector

To install a PS/2 port keyboard and mouse, plug the mouse to the upper port (green) and the keyboard to the lower port (purple).

Ⓑ Parallel Port

The parallel port allows connection of a printer, scanner and other peripheral devices.

Ⓒ Composite* (TV-OUT)

NTSC / PAL TV and Projector etc. can be connected to the Composite jack via Composite cable.

Ⓓ S-Video* (TV-OUT)

NTSC / PAL TV and Projector etc. can be connected to the S-Video jack via S-Video cable.

Ⓔ VGA Port

Monitor can be connected to VGA port.

Ⓕ Serial Port

Devices like mice, modems, and etc. can be connected to Serial port.

Ⓖ Line Out (Front Speaker Out)

Connect the stereo speakers, earphone or front surround channels to this connector.

Ⓗ Line In

Devices like CD-ROM, walkman etc. can be connected to Line In jack.

Ⓘ MIC In

Microphone can be connected to MIC In jack.

Ⓙ LAN Port

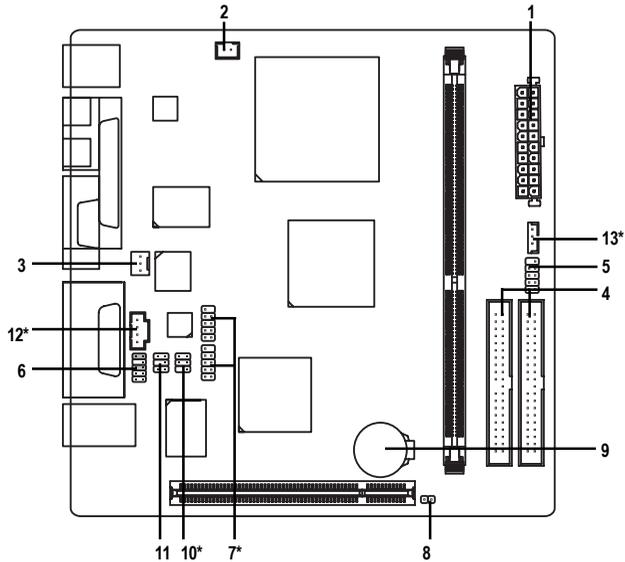
The provided Internet connection provides data transfer speeds of 10/100Mbps.

Ⓚ USB port

Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker...etc. have a standard USB interface. Also make sure your OS supports USB controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade. For more information please contact your OS or device(s) vendors.

*** Only for the GA-PCV2-DVI.

1-3 Connectors Introduction



1) ATX (Power Connector)	8) CLR_CMOS
2) CPU_FAN	9) BATTERY
3) SYS_FAN	10) SPDIF_IO*
4) IDE1/IDE2	11) SUR_GEN
5) F_PANEL	12) CD_IN*
6) F_AUDIO	13) WOL*
7) F_USB1*/F_USB2	

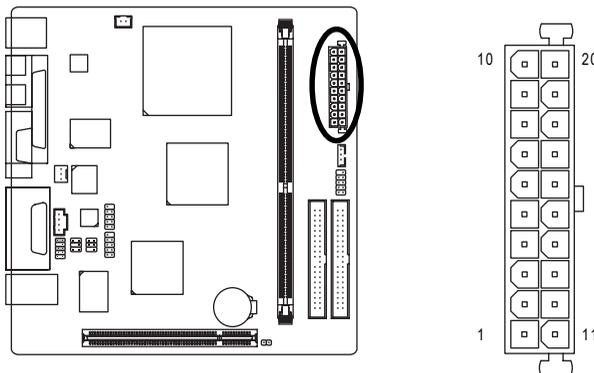
*** Only for the GA-PCV2-DV1.

1) ATX (Power Connector)

With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, please make sure that all components and devices are properly installed. Align the power connector with its proper location on the motherboard and connect tightly.

Caution!

Please use a power supply that is able to handle the system voltage requirements. It is recommended that a power supply that can withstand high power consumption be used (40W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable system or a system that is unable to start.



Pin No.	Definition	Pin No.	Definition
1	3.3V	11	3.3V
2	3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS_ON(softOn/Off)
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	Power Good	18	-5V
9	5V SB(stand by +5V)	19	+5V
10	+12V	20	+5V

2/3) CPU_FAN / SYS_FAN (Cooler Fan Power Connector)

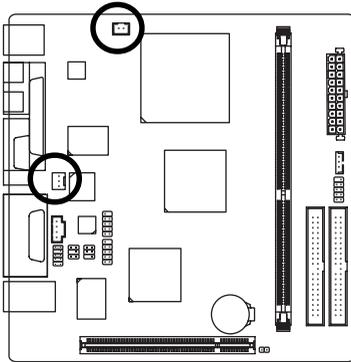
The cooler fan power connector supplies a +12V power voltage via a 2-pin/3-pin (only for SYS_FAN) power connector and possesses a foolproof connection design.

Most coolers are designed with color-coded power connector wires. A red power connector wire indicates a positive connection and requires a +12V power voltage. The black connector wire is the ground wire (GND).

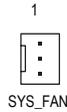
Please remember to connect the power to the cooler to prevent system overheating and failure.

Caution!

Please remember to connect the power to the CPU fan to prevent CPU overheating and failure.



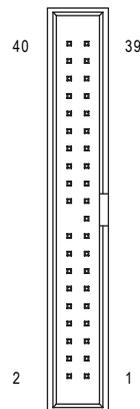
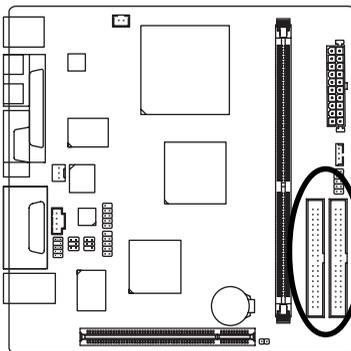
Pin No.	Definition
1	+12V
2	GND



Pin No.	Definition
1	GND
2	+12V
3	Sense

4) IDE1/IDE2 (IDE Connector)

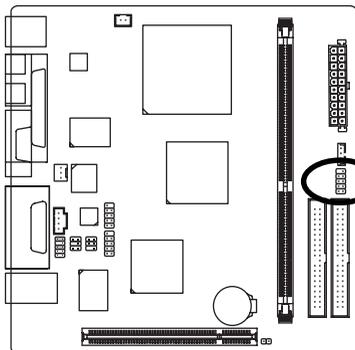
An IDE device connects to the computer via an IDE connector. One IDE connector can connect to one IDE cable, and the single IDE cable can then connect to two IDE devices (hard drive or optical drive). If you wish to connect two IDE devices, please set the jumper on one IDE device as Master and the other as Slave (for information on settings, please refer to the instructions located on the IDE device).



IDE1/IDE2

5) F_PANEL (Front Panel Connector)

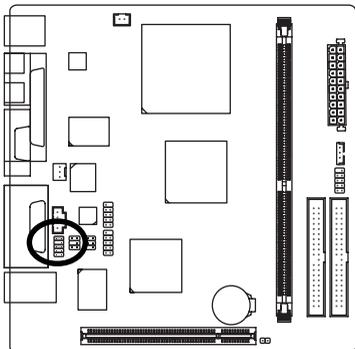
Please connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the F_PANEL connector according to the pin assignments below.



Pin No.	Definition
1	VCC
2	VCC
3	HD_LED
4	-PLED_2
5	GND
6	PW_BTN
7	RST_SW
8	GND
9	NC
10	NC

6) F_AUDIO (Front Audio Panel Connector)

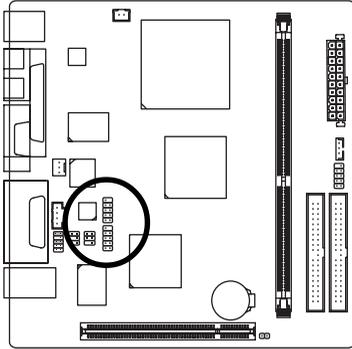
Please make sure the pin assignment on the cable is the same as the pin assignment on the MB header. To find out if the chassis you are buying support front audio panel connector, please contact your dealer. If you want to use "Front Audio" connector, you must remove the jumpers from pins 5-6, 9-10.



Pin No.	Definition
1	MIC
2	GND
3	MIC_BIAS
4	POWER
5	FrontAudio(R)
6	Rear Audio (R)/ Return R
7	NC
8	No Pin
9	FrontAudio (L)
10	Rear Audio (L)/ Return L

7) F_USB1*/F_USB2 (Front USB Connector)

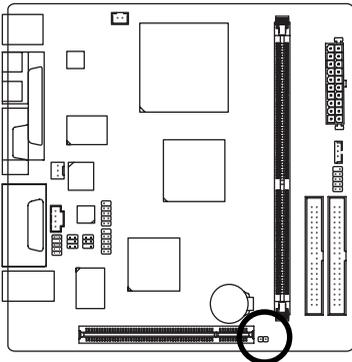
Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional front USB cable, please contact your local dealer.



Pin No.	Definition
1	Power
2	Power
3	USB0 DX-
4	USB1 Dy-
5	USB0 DX+
6	USB1 Dy+
7	GND
8	GND
9	No Pin
10	NC

8) CLR_CMOS (Clear CMOS)

You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short pins 1-2.

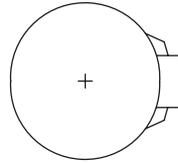
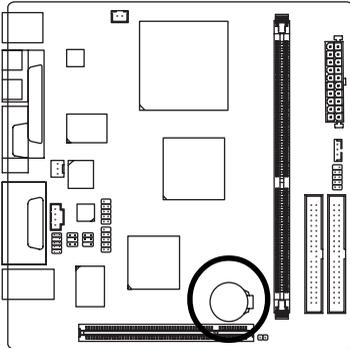


 1 Open: Normal

 1 Short: Clear CMOS

*** Only for the GA-PCV2-DVI.

9) BAT (Battery)



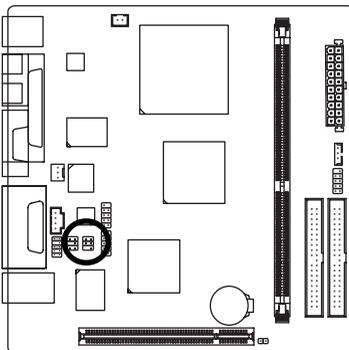
- ❖ Danger of explosion if battery is incorrectly replaced.
- ❖ Replace only with the same or equivalent type recommended by the manufacturer.
- ❖ Dispose of used batteries according to the manufacturer's instructions.

If you want to erase CMOS...

1. Turn OFF the computer and unplug the power cord.
2. Take out the battery gently and put it aside for about 10 minutes (Or you can use a metal object to connect the positive and negative pins in the battery holder to make them short for one minute).
3. Re-install the battery.
4. Plug the power cord and turn ON the computer.

10) SPDIF_IO (SPDIF In/ Out)*

The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital input function. Use SPDIF IN feature only when your device has digital output function. Be careful with the polarity of the SPDIF_IO connector. Check the pin assignment carefully while you connect the SPDIF_IO cable. Incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional SPDIF_IO cable, please contact your local dealer.

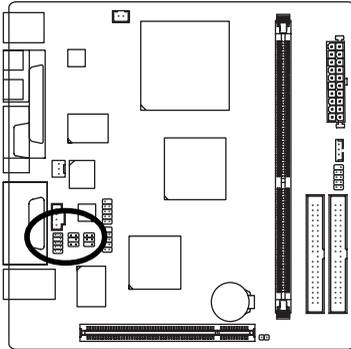


Pin No.	Definition
1	VCC
2	No Pin
3	SPDIF
4	SPDIF I
5	GND
6	GND

*** Only for the GA-PCV2-DVI.

11) SUR_CEN

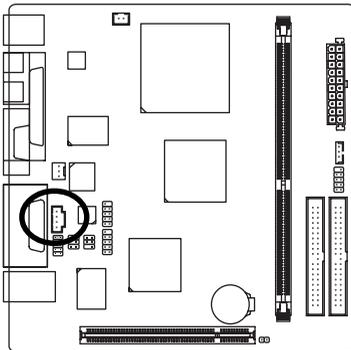
Please contact your nearest dealer for optional SUR_CEN cable.



Pin No.	Definition
1	SUR OUTL
2	SUR OUTR
3	GND
4	No Pin
5	CENTER_OUT
6	BASS_OUT

12) CD_IN (CD IN Connector)*

Connect CD-ROM or DVD-ROM audio out to the connector.

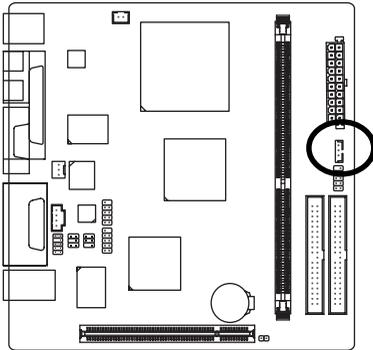


Pin No.	Definition
1	CD-L
2	GND
3	GND
4	CD-R

** Only for the GA-PCV2-DVI.

13) WOL (Wake On Lan)*

This connector allows the remote servers to manage the system that is installed on this mainboard via your network adapter which also supports WOL.



Pin No.	Definition
1	+5VSB
2	GND
3	Signal

*** Only for the GA-PCV2-DVI.

Chapter 2 BIOS Setup

BIOS (Basic Input and Output System) includes a CMOS SETUP utility which allows user to configure required settings or to activate certain system features.

The CMOS SETUP saves the configuration in the CMOS SRAM of the motherboard.

When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS SRAM.

When the power is turned on, pushing the button during the BIOS POST (Power-On Self Test) will take you to the CMOS SETUP screen. You can enter the BIOS setup screen by pressing "Ctrl + F1".

When setting up BIOS for the first time, it is recommended that you save the current BIOS to a disk in the event that BIOS needs to be reset to its original settings.

CONTROL KEYS

<↑> <↓> <←> <→>	Move to select item
<Enter>	Select Item
<Esc>	Main Menu - Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu - Exit current page and return to Main Menu
<Page Up>	Increase the numeric value or make changes
<Page Down>	Decrease the numeric value or make changes
<F1>	General help, only for Status Page Setup Menu and Option Page Setup Menu
<F2>	Item Help
<F5>	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
<F6>	Load the fail-safe default CMOS value from BIOS default table
<F7>	Load the Optimized Defaults
<F9>	System Information
<F10>	Save all the CMOS changes, only for Main Menu

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

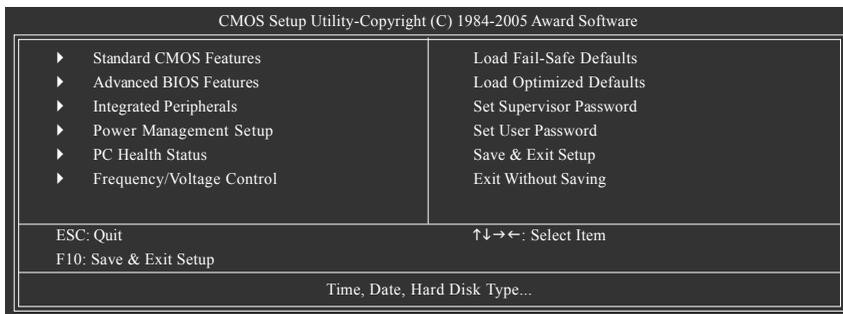
Press <F1> to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>.



The BIOS Setup menus described in this chapter are for reference only and may differ from the exact settings for your motherboard.

The Main Menu (For example: BIOS Ver. : GA-PCV2-DVI E13)

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (as figure below) will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.



If you can't find the setting you want, please press "Ctrl+F1" to search the advanced option hidden.

■ Standard CMOS Features

This setup page includes all the items in standard compatible BIOS.

■ Advanced BIOS Features

This setup page includes all the items of Award special enhanced features.

■ Integrated Peripherals

This setup page includes all onboard peripherals.

■ Power Management Setup

This setup page includes all the items of Green function features.

■ PC Health Status

This setup page is the System auto detect Temperature, voltage, fan, speed.

■ Frequency/Voltage Control

This setup page is control CPU's clock and frequency ratio.

■ Load Fail-Safe Defaults

Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration.

■ Load Optimized Defaults

Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration.

- **Set Supervisor Password**

Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup.

- **Set User Password**

Change, set, or disable password. It allows you to limit access to the system.

- **Save & Exit Setup**

Save CMOS value settings to CMOS and exit setup.

- **Exit Without Saving**

Abandon all CMOS value changes and exit setup.

2-1 Standard CMOS Features

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features		
Date (mm:dd:yy)	Wed, May 11 2005	Item Help
Time (hh:mm:ss)	10:40:9	Menu Level▶ Change the day, month, year
▶ IDE Primary Master	[None]	<Week> Sun. to Sat.
▶ IDE Primary Slave	[None]	<Month> Jan. to Dec.
▶ IDE Secondary Master	[None]	<Day> 1 to 31 (or maximum allowed in the month)
▶ IDE Secondary Slave	[None]	<Year> 1999 to 2098
Halt On	[All, But Keyboard]	
Base Memory	640K	
Extended Memory	127M	
Total Memory	128M	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults		

☞ Date

The date format is <week>, <month>, <day>, <year>.

- ▶▶ Week The week, from Sun to Sat, determined by the BIOS and is display only
- ▶▶ Month The month, Jan. Through Dec.
- ▶▶ Day The day, from 1 to 31 (or the maximum allowed in the month)
- ▶▶ Year The year, from 1999 through 2098

☞ Time

The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00.

☞ IDE Primary/Secondary Master, Slave

- ▶▶ IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection.
- ▶▶ IDE Device Setup. You can use one of three methods:
 - Auto Allows BIOS to automatically detect IDE devices during POST.(default)
 - None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.

Manual User can manually input the correct settings

- ▶▶ Access Mode Use this to set the access mode for the hard drive. The four options are:
CHS/LBA/Large/Auto(default:Auto)

- ▶▶ Capacity Capacity of currently installed hard disk.

Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information.

- ▶▶ Cylinder Number of cylinders
- ▶▶ Head Number of heads
- ▶▶ Precomp Write precomp
- ▶▶ Landing Zone Landing zone
- ▶▶ Sector Number of sectors
- ▶▶ None No floppy drive installed

☞ **Halt on**

The category determines whether the computer will stop if an error is detected during power up.

- ▶▶ **No Errors** The system boot will not stop for any error that may be detected and you will be prompted.
- ▶▶ **All Errors** Whenever the BIOS detects a non-fatal error the system will be stopped.
- ▶▶ **All, But Keyboard** The system boot will not stop for a keyboard error; it will stop for all other errors. (Default value)

☞ **Memory**

The category is display-only which is determined by POST (Power On Self Test) of the BIOS.

▶▶ **Base Memory**

The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.

The value of the base memory is typically 512K for systems with 512K memory installed on the motherboard, or 640K for systems with 640K or more memory installed on the motherboard.

▶▶ **Extended Memory**

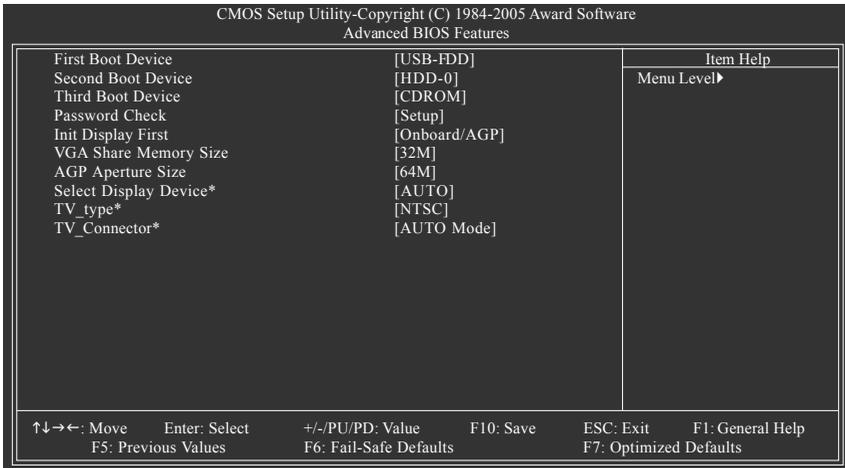
The BIOS determines how much extended memory is present during the POST.

This is the amount of memory located above 1 MB in the CPU's memory address map.

▶▶ **Total Memory**

This item displays the memory size that used.

2-2 Advanced BIOS Features



" # " System will detect automatically and show up when you install the Intel® Pentium® 4 processor with HT Technology.

☞ First / Second / Third Boot Device

- ▶▶ HDD-0~3 Select your boot device priority by Hard Disk.
- ▶▶ SCSI Select your boot device priority by SCSI devices.
- ▶▶ CDROM Select your boot device priority by CDROM.
- ▶▶ USB-FDD Select your boot device priority by USB-FDD.
- ▶▶ USB-ZIP Select your boot device priority by USB-ZIP.
- ▶▶ USB-CDROM Select your boot device priority by USB-CDROM.
- ▶▶ USB-HDD Select your boot device priority by USB-HDD.
- ▶▶ LAN Select your boot device priority by LAN.
- ▶▶ Disabled Disable this function.

☞ Password Check

- ▶▶ System The system can not boot and can not access to Setup page will be denied if the correct password is not entered at the prompt.
- ▶▶ Setup The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. (Default value)

☞ Init Display First

- Select the first initiation of the monitor display from onboard or PCI VGA card.
- ▶▶ PCI Slot Set Init Display First to PCI VGA card.
 - ▶▶ Onboard/AGP Set Init Display First to onboard VGA card. (Default value)

*** Only for the GA-PCV2-DVI.

☞ **VGA Share Memory Size**

- ▶▶ 16MB Set VGA share memory size to 16MB.
- ▶▶ 32MB Set VGA share memory size to 32MB.
- ▶▶ 64MB Set VGA share memory size to 64MB.

☞ **AGP Aperture Size**

- ▶▶ 4MB Set AGP Aperture Size to 4MB.
- ▶▶ 8MB Set AGP Aperture Size to 8MB.
- ▶▶ 16MB Set AGP Aperture Size to 16MB.
- ▶▶ 32MB Set AGP Aperture Size to 32MB.
- ▶▶ 64MB Set AGP Aperture Size to 64MB.
- ▶▶ 128MB Set AGP Aperture Size to 128MB.
- ▶▶ 256MB Set AGP Aperture Size to 256MB.

☞ **Select Display Device***

This feature allows you to set signal output from the D-Sub(VGA) or TV ports.

- ▶▶ CRT+TV Allows simultaneous signal output from the D-Sub and TV ports.
- ▶▶ TV Set signal output from the TV ports.
- ▶▶ AUTO The signal will output from the D-Sub or TV ports depending on which port is connected with the display device. (Default value)

☞ **TV_type***

Select the TV system. The options include NTSC, PAL, PALM, PALN and PALNc. (Default value: NTSC)

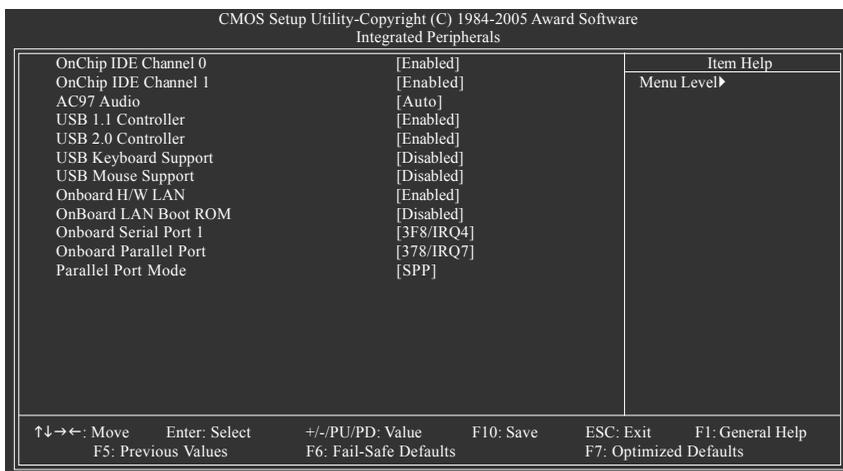
☞ **TV_Connector***

This feature allows you to set TV signal output from the Composite or S-Video port.

- ▶▶ CVBS Set TV output from the Composite port.
- ▶▶ S-Video 0 Set TV output from the S-Video port.
- ▶▶ AUTO Mode The signal will output from the Composite or S-Video port depending on which port is connected with the TV. (Default value)

*** Only for the GA-PCV2-DVI.

2-3 Integrated Peripherals



☞ OnChip IDE Channel0

- ▶▶ Enabled Enable onboard 1st channel IDE port. (Default value)
- ▶▶ Disabled Disable onboard 1st channel IDE port.

☞ OnChip IDE Channel1

- ▶▶ Enabled Enable onboard 2nd channel IDE port. (Default value)
- ▶▶ Disabled Disable onboard 2nd channel IDE port.

☞ AC97 Audio

- ▶▶ Auto Autodetect onboard AC'97 audio function. (Default value)
- ▶▶ Disabled Disable this function.

☞ USB 1.1 Controller

- ▶▶ Disabled Disable USB 1.1 controller.
- ▶▶ Enabled Enable USB 1.1 controller. (Default value)

☞ USB 2.0 Controller

- ▶▶ Disabled Disable USB 2.0 controller.
- ▶▶ Enabled Enable USB 2.0 controller. (Default value)

☞ USB Keyboard Support

- ▶▶ Enabled Enable USB keyboard support.
- ▶▶ Disabled Disable USB keyboard support. (Default value)

☞ USB Mouse Support

- ▶▶ Enabled Enable USB mouse support.
- ▶▶ Disabled Disable USB mouse support. (Default value)

☞ Onboard H/W LAN

- ▶▶ Enabled Enable onboard LAN chip function. (Default value)
- ▶▶ Disabled Disable onboard LAN chip function.

☞ **OnBoard LAN Boot ROM**

This function decide whether to invoke the boot ROM of the onboard LAN chip.

- ▶▶ Enabled Enable this function.
- ▶▶ Disabled Disable this function. (Default value)

☞ **Onboard Serial Port 1**

- ▶▶ Auto BIOS will automatically setup the Serial port 1 address.
- ▶▶ 3F8/IRQ4 Enable onboard Serial port 1 and address is 3F8/IRQ4. (Default value)
- ▶▶ 2F8/IRQ3 Enable onboard Serial port 1 and address is 2F8/IRQ3.
- ▶▶ 3E8/IRQ4 Enable onboard Serial port 1 and address is 3E8/IRQ4.
- ▶▶ 2E8/IRQ3 Enable onboard Serial port 1 and address is 2E8/IRQ3.
- ▶▶ Disabled Disable onboard Serial port 1.

☞ **Onboard Parallel Port**

- ▶▶ Disabled Disable onboard LPT port.
- ▶▶ 378/IRQ7 Enable onboard LPT port and address is 378/IRQ7. (Default value)
- ▶▶ 278/IRQ5 Enable onboard LPT port and address is 278/IRQ5.
- ▶▶ 3BC/IRQ7 Enable onboard LPT port and address is 3BC/IRQ7.

☞ **Parallel Port Mode**

- ▶▶ SPP Using Parallel port as Standard Parallel Port. (Default value)
- ▶▶ EPP Using Parallel port as Enhanced Parallel Port.
- ▶▶ ECP Using Parallel port as Extended Capabilities Port.
- ▶▶ ECP+EPP Using Parallel port as ECP and EPP mode.

2-4 Power Management Setup

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software		
Power Management Setup		Item Help
ACPI Suspend Type	[S1(POS)]	Menu Level▶
x USB Device Wake-Up From S3	Disabled	[S1]
Soft-Off by PWRBTN	[Instant-Off]	Set suspend type to
AC BACK Function	[Soft-Off]	Power On Suspend under
Keyboard Power On	[Disabled]	ACPI OS
Mouse Power On	[Disabled]	[S3]
PME Event Wake Up	[Enabled]	Set suspend type to
Resume by Alarm	[Disabled]	Suspend to RAM under
x Date (of Month) Alarm	Everyday	ACPI OS
x Time (hh:mm:ss) Alarm	0 : 0 : 0	

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

ACPI Suspend Type

- ▶▶ S1(POS) Set ACPI suspend type to S1/POS(Power On Suspend). (Default value)
- ▶▶ S3(STR) Set ACPI suspend type to S3/STR(Suspend To RAM).

USB Device Wake-Up From S3

- ▶▶ Disabled Disable USB Device Wake-Up from S3. (Default value)
- ▶▶ Enabled Enable USB Device Wake-Up from S3.

Soft-Off by PWRBTN

- ▶▶ Instant-Off Press power button then Power off instantly. (Default value)
- ▶▶ Delay 4 Sec. Press power button 4 sec. to Power off. Enter suspend if button is pressed less than 4 sec.

AC BACK Function

- ▶▶ Memory When AC-power back to the system, the system will be back to the last state before AC-power is lost.
- ▶▶ Soft-Off When AC-power back to the system, the system will be in "Off" state. (Default value)
- ▶▶ Full-On When AC-power back to the system, the system always in "On" state.

Keyboard Power On

- ▶▶ Password Enter from 1 to 8 characters to set the Keyboard Power On Password.
- ▶▶ Disabled Disabled this function. (Default value)
- ▶▶ Keyboard 98 If your keyboard have "POWER Key" button, you can press the key to power on the system.

Mouse Power On

- ▶▶ Disabled Disabled this function. (Default value)
- ▶▶ Enabled Double click on PS/2 mouse left button to power on the system.

☞ **PME Event Wake Up**

This feature requires an ATX power supply that provides at least 1A on the 5VSB lead.

- ▶▶ Disabled Disable this function.
- ▶▶ Enabled Enable PME as wake up event. (Default value)

☞ **Resume by Alarm**

You can set "Resume by Alarm" item to enabled and key in Date/Time to power on system.

- ▶▶ Disabled Disable this function. (Default value)
- ▶▶ Enabled Enable alarm function to POWER ON system.

If Resume by Alarm is Enabled.

- ▶▶ Date (of Month) Alarm : Everyday, 1~31
- ▶▶ Time (hh: mm: ss) Alarm: (0~23) : (0~59) : (0~59)

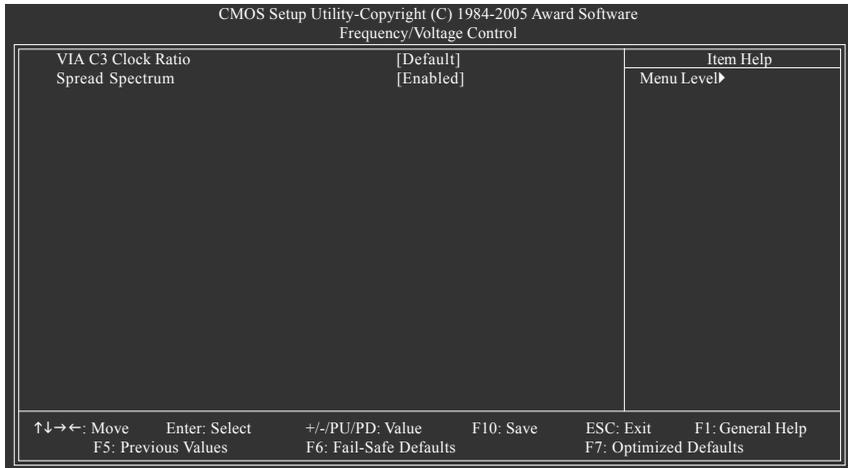
2-5 PC Health Status

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software		Item Help
PC Health Status		Menu Level▶
Vcore	1.376V	
DDR25V	2.576V	
+3.3V	3.544V	
+12V	12.112V	
Current CPU Temperature	33°C	

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

- ☞ **Vcore / DDR25V / 3.3V / +12V**
 - ▶▶ Detect system's voltage status automatically.
- ☞ **Current CPU Temperature**
 - ▶▶ Detect CPU temperature automatically.

2-6 Frequency / Voltage Control



Incorrect using these features may cause your system broken. For power end-user use only.

CAUTION

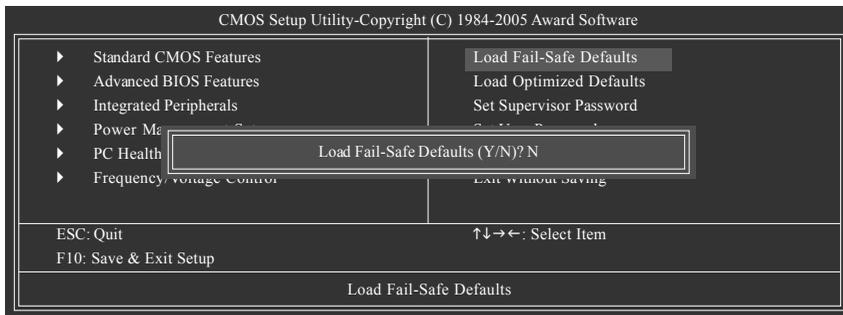
☞ VIA C3 Clock Ratio

This item is for VIA C3 CPU Ratio adjustment. (Default value: **Default**)

☞ Spread Spectrum

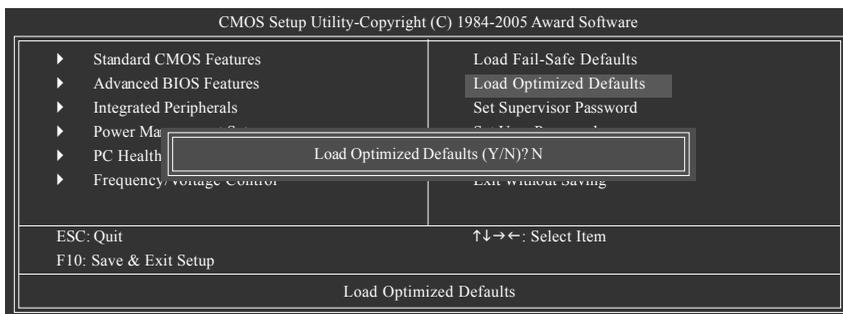
- ▶▶ Enabled Enable Spread Spectrum. (Default value)
- ▶▶ Disabled Disable this function.

2-7 Load Fail-Safe Defaults



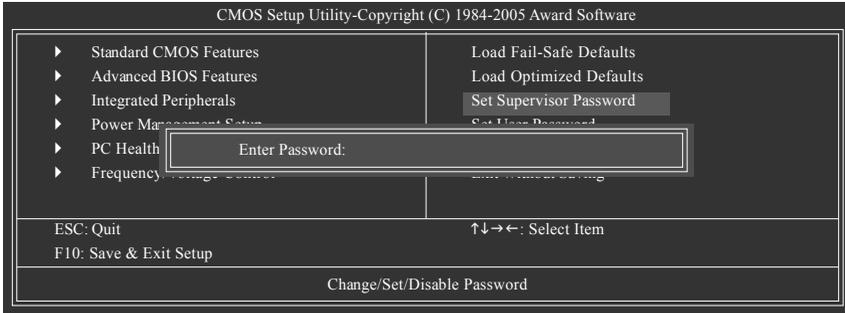
Fail-Safe defaults contain the most appropriate values of the system parameters that allow minimum system performance.

2-8 Load Optimized Defaults



Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects.

2-9 Set Supervisor/User Password



When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

Type the password, up to eight characters, and press <Enter>. 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.

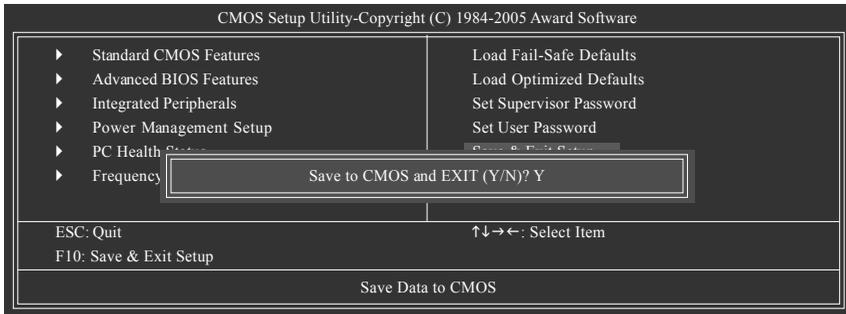
To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely.

The BIOS Setup program allows you to specify two separate passwords: SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items.

If you select "System" at "Password Check" in Advance BIOS Features Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu.

If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup.

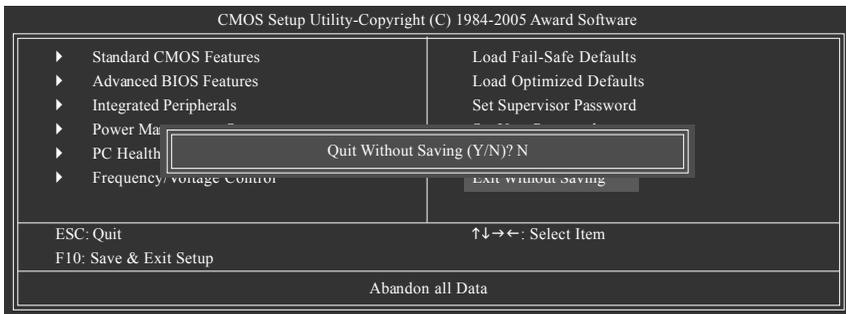
2-10 Save & Exit Setup



Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS.

Type "N" will return to Setup Utility.

2-11 Exit Without Saving



Type "Y" will quit the Setup Utility without saving to RTC CMOS.

Type "N" will return to Setup Utility.

