Chapter 3

# **BIOS Setup**

The mainboard comes with the chip that Award BIOS that contains the ROM Setup information of your system. (This chip serves as an interface between the processor and the rest of the mainboard components.) This section explains the information contained in the Setup program and tells you how to modify the settings according to your system configuration.

# **CMOS Setup Utility**

Phoenix - AwardBIOS CMOS Setup Utility		
<ul> <li>Standard CMOS Features</li> <li>Advanced BIOS Features</li> <li>Advanced Chipset Features</li> <li>Power Management Setup</li> <li>Integrated Peripherals</li> <li>PnP/PCI Configurations</li> <li>PC Health Status</li> </ul>	<ul> <li>Frequency/Voltage Cor Load Faill-Safe Defaults</li> <li>Load Optimized Default</li> <li>Set Supervisor Password</li> <li>Set User Password</li> <li>Save &amp; Exit Setup</li> <li>Exit Without Saving</li> </ul>	
Esc : Quit F10 : Save & Exit Setup	↑↓ → ← : Select Item	
Time, Date, Hard Disk Type		

Chapter 3 BIOS Setup

The Setup utility program allows updates to the mainboard configuration settings. The BIOS setup values will be saved in the CMOS. It is executed when the user changes system configuration; user changes system backup battery; or the system detects a configuration error and asks the user to run the Setup program. Use the arrow keys to select and press **Enter** to run the selected program.

# Standard CMOS Setup



The Standard CMOS Setup screen is displayed above. Each item may have one or more option settings. The system BIOS automatically detects memory size, thus no changes are necessary. Use the arrow keys to highlight the item and then use **PgUp** or **PgDn** keys to select the value you want in each item.

## Date

To set the date, highlight the *Date* field and then press **Page Up/Page Down** or +/- keys to set the current date. Follow the month, day and year format.

## Time

To set the time, highlight the *Time* field and then press **Page Up/Page Down** or +/- keys to set the current time. Follow the hour, minute, and second format.

#### Hard Disks

This field records the specifications for all non-SCSI drives installed in the system. The onboard IDE and SATA connectors provide primary and secondary channels for linking with up to six hard disks or other allowed storage devices. Each channel supports up to two drives, one as *Master* and the other as *Slave*.

## **Hard Disk Configurations**

Capacity:	The hard disk size. The unit is Bytes.
Cylinder:	The cylinder number of the hard disk.
Head:	The read/write head number of hard disk.
Precomp:	The cylinder number at which the disk drive
	changes the write current.
Landing Zone:	The cylinder number that the disk drive heads
	(read/write) are seated when the disk drive is
	parked.
Sector:	The sector number of each track defined on the
	hard disk.

## Drive A/Drive B

This field records the types of floppy drives installed in the system. To enter the configuration value for a particular drive, highlight its corresponding field and then select the drive type using the **left-** or **right-arrow** key.

## Floppy 3 Mode Support

This is a Japanese standard floppy type drive. The standard stores 1.2MB in a 3.5 inch diskette.

## Video

Set this field to the type of video display card installed in the system.

## Halt On

This field determines which types of errors will cause the system to halt.

# **Advanced BIOS Features**



## Hard Disk Boot Priority

This feature will auto detect all hard disks of bootable device on the system. It also allows users to select hard disk device booting priority.

## Virus Warning

This feature starts the virus scan tool to detect if boot virus in boot sector of the first hard disk drive when booting up. The options are: Enabled, Disabled.

## CPU L1 & L2 Cache

When enabled, improves the system performance. Disable this item when testing or trouble-shooting. The options are: Enabled, Disabled.

## Hyper-Threading Technology

When enabled, it performs as Hyper-Threading tech. does if the CPU support it. The options are: Enabled, Disabled.

## Quick Power On Self Test

When enabled, allows the BIOS to bypass the extensive memory test. The options are: Enabled, Disabled.

#### First/Second/Third Boot Device

This feature allows user to select the boot device priority. The options are: Floppy, LS120, Hard Disk, CDROM, ZIP100, USB-FDD, USB-ZIP, USB-CDROM, USB-HDD, LAN, Disabled.

#### **Boot Other Device**

This feature allows user to select the boot device priority. The options are: Enabled, Disabled.

#### Swap Floppy Drive

Allows you to switch the order in which the operating system accesses the floppy drives during boot up. Full Screen LOGO Show

It decides whether or not the full screen logo is shown during system booting up. The options are: Enabled, Disabled.

## Boot Up Floppy Seek

When enabled, assigns the BIOS to perform floppy diskette drive tests by issuing the time-consuming seek commands.

The options are: Enabled, Disabled.

## Boot Up Numlock Status

When set to On, allows the BIOS to automatically enable the Num Lock Function when the system boots up. The options are: On, Off.

## Gate A20 Option

When set at Fast, allows a faster access response under Protected mode. The options are: Fast, Normal.

## **Typematic Rate Setting**

The term typematic means that when a keyboard key is held down, the character is repeatedly entered until the key is released. The options are: Disabled, Enabled.

## Typematic Rate (Chars/Sec)

This feature is available only if the above item, Typematic Rate Setting, is set at Enabled. Sets the rate of a character repeat when the key is held down. The options are: 6, 8, 10, 12, 15, 20, 24, 30.

## Typematic Delay (Msec)

This feature is available only if the item, Typematic Rate Setting, is set at Enabled. Sets the delay time before a character is repeated. The options are: 250, 500, 750, 1000 millisecond.

## Security Option

Allows to set the security level of the system. The options: Setup, System.

## **APIC Mode**

Allows you to decide if the system enters the APIC (Advanced Programmable Interrupt Controller) mode or not for more IRQs can be released. The options are: Enabled, Disabled.

## MPS Version Control For OS

When two CPUs onboard (not this board) this feature allows you to select MPS (Multi-Processor Spec.) version control for OS when logo test executes. The options are: 1.1, 1.4.

## OS Select For DRAM > 64MB

If your operating system (OS) is OS/2, select the option OS2. Otherwise, stay with the default setting Non-OS2. The options are: Non-OS2, OS2.

## HDD S.M.A.R.T. Capability

S.M.A.R.T. stands for Self-Monitoring and Analysis Reporting Technology which allows your hard disk drive to report any read/write errors and issues a warning with LDCM installed. The options: Disabled, Enabled.

## Report No FDD For WIN 95

When the field under the Standard CMOS Setup Menu for Drive A and/or Drive B is set at None, users must set this field is set at Yes for it to function properly. Otherwise, set at No, even if field for Drive A and/or Drive B is set at None, system will still detect and recognize of a floppy drive(s). The options are: Yes, No.

## **BIOS** Guardian

It allows the system to prevent computer viruses. Users will need to disable it to update BIOS. The options are: Enabled, Disabled.



**NOTE:** Please disable this BIOS feature about BIOS Guardian before you start to reflash BIOS.

## BIOS Guardian and Reflash BIOS

BIOS Guardian by default is enabled, thus effectively acts as a firewall against viruses that can attack the BIOS while the system is running. It must be disabled before reflash BIOS.

The steps below show you how to off and on BIOS Guardian when reflash BIOS:

- 1. Press **Del** key while booting. Go to *CMOS Setup Utility* menu.
- 2. Go to Advanced BIOS Features submenu.
- 3. Set the feature *BIOS Guardian* at Disabled.
- 4. Save the setting and exit. The system restarts.
- 5. POST screen holds. A message about BIOS Guardian shows.
- 6. Press Space bar.
- 7. Reflash BIOS. Restart the system after complete it.
- 8. POST screen holds. A message about BIOS Guardian shows.
- 9. Press G key. The feature BIOS Guardian will be enabled again.

## Full Screen LOGO Show

It decides whether or not the full screen logo is shown during system booting up. The options are: Enabled, Disabled.



## NOTE:

- 1. LogoGenie supports Award BIOS only.
- 2. If you create a Logo file (.bmp) by LogoGenie, the file size must be 640 x 464 x 256 colors.

To enable this utility, please proceed as follows:

- 1. Insert software CD. Select LogoGenie from the Menu and follow the installation instructions.
- 2. After LogoGenie has been installed, go to Windows Start Box. In Programs Menu, select LogoGenie, then select LogoGenie.
- 3. Press F1 to read Help file to understand how to use this software if it is new to you.

# **Advanced Chipset Features**

Phoenix - AwardBIOS CMOS Setup Utility Advanced Chipset Features		
DRAM Timing Selectable CAS Latency Time	[By SPD] 2.5	ltem Help
x Active to Precharge Delay, x DRM to RA% to CAS# Delay. x DRM RA% the CAS# Delay. X BRM RA% the charge Memory Frequency For System BIGS Cacheadle Video 80:6 Cacheadle Video 80:6 Cacheadle Memory Held At 13M-16M Delay Pilothy to Thermal AGP Apenture Size (NB) Init Display First	6 3 [Auto] [Enabled] [Disabled] [Disabled] [16 Min] [128] [PCI Stot]	Menu Level►
↑↓→←: Move Enter : Select +/-/PU/PD : Value F10 : Save Esc : Exit F F5 : Previous Values F6 : Fail-Safe Defaults F7 : Optimized		
F5 : Previous Values F6 : Fail-Safe Defaults F7 : Optimize		

## **DRAM Timing Selectable**

This feature allows user to select the way to set DRAM timing. The options are: Manual, By SPD.

## CAS Latency Time

This feature allows user to select the CAS latency time, when any SDRAM DIMM installed. The options are: 2, 2.5, 3.

## Active to Precharge Delay

This feature allows user to set Active to Precharge Delay, if any SDRAM installed.

The options are: 8, 7, 6, 5.

## DRAM RAS# to CAS# Delay

The feature allows user to set the delay time that from the DRAM RAS# active to CAS#. The options are: 4, 3, 2.

## DRAM RAS# Precharge

The feature allows user to set the DRAM RAS# Precharge Time. The options are: 4, 3, 2.

## Memory Frequency For

This feature allows users to set the memory frequency. The options are: DDR 266, DDR 333, Auto.

## System BIOS Cacheable

Setting at Enabled will allow the caching of the BIOS ROM F0000H-FFFFFH, resulting in better system performance. It may cause system error when some programd try to access the memory area. The options are: Disabled, Enabled.

## Video BIOS Cacheable

Setting at Enabled will allow the caching of the video BIOS ROM at C0000H-C7FFFH, resulting in better video performance. It may cause system error when some programd try to access the memory area. The options are: Disabled, Enabled.

## Memory Hole At 15M-16M

When set at Enabled, the memory hole at 15MB address will be relocated to the 15M-16MB address range of the ISA or PCI cycle when the CPU accesses the 15M-16MB address area. When set at Disabled, the memory hole at 15MB address will be treated as a DRAM cycle when the CPU accesses the 15M-16MB address area. The options are: Disabled, Enabled.

## **Delay Prior to Thermal**

It allows user to select the Delay Prior to Thermal. The options are: 4 Min, 8 Min, 16 Min, 32 Min.

## AGP Graphics Aperature Size (MB)

It allows user to select the main memory frame size of AGP use. The options are: 4, 8, 16, 32, 64, 128, 256.

## Init Display First

When you install an AGP VGA card and a PCI VGA card on the board, this feature allows you to select the first initiation of the monitor display from which card. The options are: PCI Slot, AGP.

# **Integrated Peripherals**

Phoenix - AwardBIOS CMOS Setup Utility Integrated Peripherals			
► OnChip IDE Device	[Press Enter]	ltem Help	
<ul> <li>Onboard Device</li> <li>SuperIO Device</li> </ul>	[Press Enter] [Press Enter]	Menu Level ►	
F5 : Previous Values F6 : Fail-Safe Defaults F7 : Optimized I			

## **OnChip IDE Device**

## IDE HDD Block Mode

When enabled, the system executes read/write requests to hard disk in block mode. The options are: Enabled, Disabled.

## **On-Chip Primary PCI IDE**

When enabled, it allows you to use the onboard primary PCI IDE. The options are: Enabled, Disabled.

## IDE Primary Master/Slave PIO

Allows an automatic or a manual configuration of the PCI primary IDE hard drive (master/slave) mode. The options are: Auto, Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

## IDE Primary Master/Slave UDMA

Allows an automatic configuration of the PCI primary IDE hard drive (master/slave)) mode if Ultra DMA is supported both on the motherboard and the hard disk. The options are: Auto, Disabled.

## **On-Chip Secondary PCI IDE**

When enabled, it allows you to use the onboard secondary PCI IDE. The options are: Enabled, Disabled.

## IDE Secondary Master/Slave PIO

Allows an automatic or a manual configuration of the PCI secondary IDE hard drive (master/slave) mode. The options are: Auto, Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

## IDE Secondary Master/Slave UDMA

Allows an automatic configuration of the PCI secondary IDE hard drive (master/slave) mode if Ultra DMA is supported both on the motherboard and the hard disk. The options are: Auto, Disabled.

## **Onboard Device**

## USB Controller

Disable this option if you are not using the onboard USB 1.1 and USB 2.0 feature. The options are: Disabled, Enabled.

## USB 2.0 Controller

Disable this option if you are not using the onboard USB 2.0 feature (USB 1.1 not effected). The options are: Disabled, Enabled.

## USB Legacy KB

When set at Auto, the BIOS will detect if USB keyboard is installed automatically. The options are: Auto, Disabled, Enabled.

## AC97 Audio

This feature auto detects if you use a card that with a CODEC to enable or disable the AC97 audio function. The options are: Auto, Disabled.

## **Onboard 1394 Controller**

This feature allows you to disable the onboard 1394 feature. The options are: Enabled, Disabled.

## **Onboard Lan Controller**

This feature allows users to enable or disable the onboard Lan controller. The options are: Enabled, Disabled.

## Onboard Lan Boot ROM

This feature allows users to enable or disable the onboard Lan boot ROM to boot system. The options are: Enabled, Disabled.

## \*\*\* Serial ATA Setting \*\*\*

## **Onboard Serial ATA**

This feature allows users to disable the optional onboard SATA chip. The options are: Enabled, Disabled.

## SATA Mode

This feature allows users to select SATA specifications that embedded functions in South Bridge. The options are: IDE, RAID.

## On-Chip Serial ATA

This feature allows users to select the SATA function modes (that embeded in South Bridge). Setting at *Disabled* will disable STAT controller. Set at *Auto* will allow the BIOS to arrange it. Setting *Combined Mode* will make PATA and SATA combined. Max. of 2 IDE drives in each channel (primary master/slave; secondary master/slave). *Enhanced Mode* allows max. of 6 IDE drives supported. *SATA Only* will make SATA operates in legacy mode. The options are: Disabled, Auto, Combined Mode, Enhanced Mode, STAT Only.

## Serial ATA Port0/1 Mode

This feature allows users to select the SATA port 0/1 modes. The options are: SATA0 master, SATA1 master.

## Onboard FDC Controller

When enabled, the floppy diskette drive (FDD) controller is activated. The options are: Enabled, Disabled.

## Onboard Serial Port 1/2

If the serial port 1/2 uses the onboard I/O controller, you can modify your serial port parameters. If an I/O card needs to be installed, COM3 and COM4 may be needed. The options are: Disabled, 3F8/IRQ4, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3.

#### UART Mode Select

Allows you to select the IR modes if the serial port 2 is used as an IR port. Set at Standard, if you use COM2 as the serial port as the serial port, instead as an IR port. The options are: Normal, IrDA, ASKIR, SCR.

## **UR2 Duplex Mode**

Allows you to select the IR modes. The options are: Full, Half.

#### **Onboard Parallel Port**

Allows you to select from a given set of parameters if the parallel port uses the onboard I/O controller. The options are: Disabled, 378/IRQ7, 278/IRQ5, 3BC/IRQ7.

#### **Parallel Port Mode**

Allows you to connect with an advanced printer via the port mode it supports. The options are: SPP, ECP, EPP, EPP+ECP.

## ECP Mode Use DMA

This feature allows you to select Direct Memory Access (DMA) channel. The options are: 1, 3.

# **Power Management Setup**

Phoenix - AwardBIOS CMOS Setup Utility Power Management Setup			
Power Management Video Off Method	(User Define) (DPMS)	Â	ltem Help
Video Off In Suspend MODEM Use IRQ Suspend Mode HDD Power Down Sch-Off by PVR-BITN PWRON ARF PVR-Fall ACPI Suspend Type Run VGAROS if S3 Resume CPU TriRM-throttling Wake-Up by PCI Card Power On by Ring Wake-Up on LAN USB K8 Wake-Up From 33 Resume by Alarm × Drate (if Nonth) Alarm × Time (ith:mm:s) Alarm	(Yes) [3] [Disabled] [Instant-Off] [Forme-Sts] [Enabled] [S3(STR)] [Auto] [S0%] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Disabled] 0 0 0: 0:0		Menu Level ►
↑↓→←: Move Enter : Select +/-/PU/PD : Value F10 : Save Esc : Exit F F5 : Previous Values F6 : Fall-Safe Defaults F7 : Optimized			

## Video Off Method

The option *Blank Screen* allows the BIOS to blank off screen display by turning off the red-green-blue signals. The option *V/H SYNC+Blank* allows the BIOS to blank off screen display by turning off the V-Sync and H-Sync signals sent from add-on VGA card. The option *DPMS* allows the BIOS to blank off screen display by your add-on VGA card which supports DPMS (Display Power Management Signaling function). The options are: Blank Screen, V/H SYNC+Blank, DPMS.

## Video Off In Suspend

The option allows you to select VGA status when the system goes to suspend mode. The options are: No, Yes.

## MODEM Use IRQ

This feature allows you to select the IRQ# to meet your modem IRQ#. The options are: NA, 3, 4, 5, 7, 9, 10, 11.

## Suspend Mode

When disabled, the system will not enter Suspend mode. The specified time option defines the idle time the system takes before it enters Suspend mode. The options are: Disable, 1, 2, 4, 8, 10, 20, 30, 40 Min, 1 Hour.

#### HDD Power Down

The option lets the BIOS turn the HDD motor off when system is in Suspend mode. Selecting 1 Min. 15 Min allows you define the HDD idle time before the HDD enters the Power Saving Mode.

The options 1 Min..15 Min will not work concurrently. When HDD is in the Power Saving Mode, any access to the HDD will wake the HDD up. The options are: Disabled, 1 Min..15 Min.

## Soft-Off by PWR-BTTN

The selection Delay 4 Sec. will allow the system shut down after 4 seconds after the power button is pressed. The selection Instant-Off will allow the system shut down immediately once the power button is pressed. The settings are: Instant-Off, Delay 4 Sec.

## **PWRONAfter PWR-Fail**

When the system is shut down owing to the power failure, the system will not be back to power on by itself. This feature allows you to set the system back to which power status of the system when the system power is resumed. The options are: Former-Sts, On, Off.

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## **ACPI** Function

This item allows you to disable the ACPI function. The options are: Enabled, Disabled.

## **ACPI Suspend Type**

This item allows you to select suspend mode when the system in ACPI mode. The options are: S1 (POS), S3 (PTR), S1&S3.

## Run VGABIOS if S3 Resume

This feature allows you to decide the way if VGA BIOS should be called when the system resumes from S3 state if the above feature is set at S3 (PTR) or S1&S3. The options are Auto, Yes, No.

## **CPU THRM-Throttling**

When thermal override condition occur, this item allows users to determine the duty cycle of the throttling.

The options are: 87.5%, 75.0%, 62.5, 50.0%, 37.5%, 25.0%, 12.5%.

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## Wake-Up by PCI card

When set at Enabled, any PCI-PM event awakes the system from a PCI-PM controlled state. The options are Disabled, Enabled.

## Power On by Ring

An incoming call via modem awakes the system from its soft-off mode. The options are Disabled, Enabled.

## Wake Up On LAN

When set at Enabled, an input signal comes from the other client/server on the LAN awakes the system from a soft off state if connected over LAN. The options are Disabled, Enabled.

## USB KB Wake-Up From S3

When set at Enabled, it allows USB keyboard to activate the system from ACPI S3 power saving mode. The options are Disabled, Enabled.

#### **Resume by Alarm**

This feature allows you to set the when the system being turned on from the system power-off status. The options are: Enabled, Disabled.

## Date (of Month) Alarm

This feature allows you to set the day of the alarm starts when the RTC Alarm Resume From Soft Off is set to be Enabled. The options are: 0, 1..31.

## Time (hh:mm:ss) Alarm

If an ATX power supply is installed and when RTC Alarm Resume is Enabled, this feature allows you to set the time of the alarm starts when the RTC Alarm Resume From Soft Off is set to be Enabled. The options are: hh (*hour*) - 0, 1, 2,..., 23; mm (*minute*) - 0, 1, 2,...,59; ss (*second*) - 0, 1, 2,...,59.

## Primary IDE 0

When the primary master HDD is working, the system timer will be reloaded and the system will not be into the suspend mode. The options are: Disabled, Enabled.

## Primary IDE 1

When the primary slave HDD is working, the system timer will be reloaded and the system will not be into the suspend mode. The options are: Disabled, Enabled.

## Secondary IDE 0

When the secondary master HDD is working, the system timer will be reloaded and the system will not be into the suspend mode. The options are: Disabled, Enabled.

## Secondary IDE 1

When the secondar slave HDD is working, the system timer will be reloaded and the system will not be into the suspend mode. The options are: Disabled, Enabled.

## FDD, COM, LPT Port

When FDD, COM, or LPT is working, the system timer will be reloaded and the system will not be into the suspend mode. The options are: Disabled, Enabled.

## PCI PIRQ[A-D]#

When the PCI PIRQ[A-D]# has been alerted, the system timer will be reloaded and the system will not be into the suspend mode. The options are: Disabled, Enabled.

# **PnP/PCI** Configurations

(Disabled)	ltem Help
(Auto(ESCD)) Press Enfer [Enatkled] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto]	Menu Level ► Select Yes if you are using a Hug ana Plug capable opending system Select No if you need the boot to configure non-boot devices
	(Discoled) (Auto(ESCD)) Press Enter [Enotated] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Auto]

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## PNP OS Installed

If your operating system is a Plug-and-Play one, such as Windows NT, Windows 95, select Yes. The options are: No, Yes.

## **Reset Configuration Data**

Enabling it to reset the system Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on card and the system reconfiguration has caused such a serious conflict that the operating system can not boot. The options are: Disabled, Enabled.

## **Resources Controlled By**

If set at Auto, the BIOS arranges all system resources. If there exists conflict, select Manual. The options are: Auto (ESCD), Manual.

If the manual options, after the featrue **IRQ Resources** being pressed, of **IRQ-Assigned To** are: PCI Device, Reserved. When resources were controlled manually, assign each system interrupt a type, depending on each device type to use the interrupt.

## PCI/VGA Palette Snoop

Set this feature to be enabled if any ISA adapter card installed in the system requires the VGA palette snoop function. The options are: Disabled, Enabled.

## INT Pin 1/2/3/4/5/6/7/8 Assignment

This feature allows you to assign the PCI IRQ numbers for PCI slots. Selecting the default, Auto, allows the PCI controller to automatically allocate the IRQ numbers. The options are: Auto, 3, 4, 5, 7, 9, 10, 11, 12, 14, 15.

## **PC Health Status**

Phoe	enix - AwardBlOS PC Health	CMOS Setup Utility n Status	
Shutdown Temperature VCORE	[Disabled]	Item Help	
2.5V 3.3V +5V 5VSB 122V Voltage Bettery SYSTEM Temperature CPU Temperature CPU Temperature CPU Femperature CPU Femperature CPU Fem		Menu Level►	
↑↓→←: Move Enter : : F5 : Previo	↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save Esc: Exit F5: Previous Values F6: Fail-Safe Defaults F7: Optimized		

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## Shutdown Temperature

This feature helps to shutdown the system when the system temperature is as high as the selected temperature to prevent from the overheat problem. The option list presents all the temperatures that supported by the board and Disabled.

# VCORE / 2.5V / 3.3V / +5V / 5VSB / 12V / -12V / Voltage Battery / SYSTEM Temperature / CPU Temperature / CPU FAN / SYSTEM FAN / CHIP FAN

These items allow end users and technicians to monitor data provided by the BIOS on this mainboard. It is not user-configurable.

# Frequency/Voltage Control

Phoenix - AwardBIOS CMOS Setup Utility Frequency/Voltage Control		
Auto Detect PCI CLK Spiead Spectrum	Auto Detect PCI CLK [Enabled] Spread Spectrum [+/- 1.00%]	ltem Help
CPU Clock Ayn AGP/RI Cl k CPU Voltoge Regulator AGP voltage Regulator DRAM Voltoge Regulator	[133MHz] [Oladded] [1.550v+] [1.5v] [2.5v]	Menu Level ►
↑↓→←: Move Enter:Select +/-/PU/PD:Value F10:Save Esc:Exit		
F5 : Previous Values F6 : Fail-Safe Defaults F7 : Optimized		

## Auto Detect PCI CLK

When enabled, BIOS will detect the PCI slot slot. If no any device in, BIOS will auto disable its clock. The options are: Enabled, Disabled.

## Spread Spectrum

This feature allows users to select the range of spread spectrum. The options are: Disable, +/-0.35%, +/-0.50%, +/-0.75%, +/1.00%.

## **CPU Clock**

This feature allows you to set the CPU clock frequency. The default setting is detected on your CPU clock automatically. If you set a unappropriate option which leads to a booting problem, keep pressing the Insert key until the display appears will solve it.

## Asyne AGP/PCI CLK

This feature allows you to select the combination of asynchronous AGP / PCI clock. The options are: Disabled, 66/33 MHz, 73/36 MHz, 80/40 MHz.

## **CPU** Voltage Regulator

This item allows you to set the CPU Vcore voltage. Options: 1.475V to 1.675 V in 0.025V increments. We recommend that you leave this at the default value (with \* mark).

## AGP Voltage Regulator

This item allows you to set the AGP slot voltage. Options: 1.5V to 1.8V in 0.1V increments. We recommend that you leave this at the default value.

## **DIMM Voltage Regulator**

This item allows you to set the DIMM slot voltage. Options: 2.5V, 2.6V, 2.7V, 2.8V. We recommend that you leave this at the default value.

# Load Fail-Safe Defaults

This submenu is selected to diagnose the problem after the computer boots, if the computer will not boot. These settings do not give optimal performance.

# Load Optimized Defaults

This submenu is selected for default settings which provide the best system performance.

# Supervisor/User Password

To enable the Supervisor/User passwords, select the item from the Standard CMOS Setup. You will be prompted to create your own password. Type your password up to eight characters and press Enter. You will be asked to confirm the password. Type the password again and press Enter. To disable password, press Enter twice when you are prompted to enter a password. A message appears, confirming the password is disabled.

Under the BIOS Feature Setup, if *Setup* is selected under the Security Option field and the Supervisor/User Password is enabled, you will be prompted password every time you try to enter the CMOS Setup Utility. If *System* is selected and the Supervisor/User Password is enabled, you will be requested to enter the Password every time when you reboot the system or enter the CMOS Setup utility.

# Save and Exit Setup

After you have made changes under Setup, press Esc to return to the main menu. Move cursor to Save and Exit Setup or press F10 and then press Y to change the CMOS Setup. If you did not change anything, press Esc again or move cursor to Exit Without Saving and press Y to retain the Setup settings. The following message will appear at the center of the screen to allow you to save data to CMOS and exit the setup utility: **SAVE to CMOS and EXIT (Y/N)?** 

# **Exit without Saving**

If you select this feature, the following message will appear at the center of the screen to allow you to exit the setup utility without saving CMOS modifications: **Quit Without Saving (Y/N)?**