Chapter 3

AWARD® BIOS SETUP

Award[®] BIOS ROM has a built-in Setup program that allows users to modify the basic system configuration. This type of information is stored in battery-backed RAM (CMOS RAM), so that it retains the Setup information when the power is turned off.

3.1 Entering Setup

Power on the computer and press immediately to allow you to enter Setup. The other way to enter Setup is to power on the computer. When the below message appears briefly at the bottom of the screen during the POST (Power On Self Test), press key or simultaneously press <Ctrl>, <Alt>, and <Esc> keys.

TO ENTER SETUP BEFORE BOOT, PRESS <CTRL-ALT-ESC> OR KEY

If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys. 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 1) will appear on the screen. The Main Menu allows you to select from twelve 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) 1984-1999 Award Software

Standard CMOS Features	Load Fail-Safe Defaults	
Advanced BIOS Features	Load Optimized Defaults	
Advanced Chipset Feature	Set Supervisor Password	
Integrated Peripherals	Set User Password	
Power Management Setup Save & Exit Setup		
PnP/PCI Configurations	Exit Without Saving	
Frequency/Voltage Control		
Esc : Quit $\uparrow \downarrow \rightarrow \leftarrow$: Select Item F10 : Save & Exit Setup		
Time, Date, Hard Disk Type		

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.

Frequency/Voltage Control

Use this menu to specify your settings for frequency/voltage control.

Load Fail-Safe Defaults

Use this menu to load the BIOS default values for the minimal/stable performance for your system to operate.

Load Optimized Defaults

Use this menu to load the BIOS default values that are factory settings for optimal performance system operations.

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.

3.4 Standard CMOS Features

The items in Standard CMOS Setup Menu are divided into 10 categories. Each category includes no, one or more than one setup items. Use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

CMOS	Setup	Utility	- Copyright(C)	1984-1999	Award	Software
			Standard CMOS	S Setup		

Date(mm:dd:yy): Time(hh:mm:ss):		Item Help
IDE Primary Master IDE Primary Slave IDE Secondary Master IDE Secondary Slave	Press Enter None Press Enter None	Menu Level >
Drive A Drive B	1.44M, 3.5in. None	
Video Halt On	EGA/VGA All Errors	
Based Memory Extended Memory Total Memory	64512K	
↑↓→← 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 <day><month> <date> <year>.

Day	Day of the week, from Sun to Sat, determined by BIOS. Read-only.
month	The month from Jan. through Dec.
date	The date from 1 to 31 can be keyed by numeric
	function keys.
year	The year, depends on the year of the BIOS

Time

The time format is <hour> <minute> <second>.

PrimaryMaster/PrimarySlave SecondaryMaster/Secondary Slave

Press PgUp/<+> or PgDn/<-> to select Manual, None, Auto type. Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category. If your hard disk drive type is not matched or listed, you can use Manual to define your own drive type manually.

If you select Manual, related information is asked to be entered to the following items. Enter the information directly from the keyboard. This information should be provided in the documentation from your hard disk vendor or the system manufacturer.

If the controller of HDD interface is SCSI, the selection shall be "None". If the controller of HDD interface is CD-ROM, the selection shall be "None".

Access Mode	The settings are Auto, Normal, Large, LBA.
Cylinder	number of cylinders
Head	number of heads
Precomp	write precom
Landing Zone	landing zone
Sector	number of sectors

3.5 Advanced BIOS Features

CMOS Setup	Utility -	Copyright(C) 1984-1999	Award	Software
	Ad	vanced BIOS	Features		

Virus Warning CPU Internal Cache External Cache Quick Power On Self Test First Boot device	Disabled Enabled Enabled Disabled Floppy	Item Help
Second Boot device Third Boot device Boot other device Swap Floppy Drive Boot Up Floppy Seek Boot Up Numlock Status Gate A20 Option Typematic Rate Setting Typematic Rate (Chars/Sec) Typematic Delay (Msec)	HDD-0 LS/Zip Enabled Disabled Off Fast Disabled 6 250 Setup Non-OS2	Menu Level >
$\uparrow \downarrow \rightarrow \leftarrow \text{Move Enter:Select } +/-/\text{F5:Previous Values F6:Fail}$		-

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.

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

CPU Internal Cache

The default value is Enabled. **Enabled** (default) Enable cache **Disabled** Disable cache Note: The internal cache is built in the processor.

External Cache

Choose Enabled or Disabled. This option enables the level 2 cache memory.

Quick Power On Self Test

This category speeds up Power On Self Test (POST) after you power on the computer. If this is set to Enabled, BIOS will shorten or skip some check items during POST.

Enabled	Enable quick POST
Disabled (default)	Normal POST

First/Second/Third/Other Boot Device

The BIOS attempts to load the operating system from the devices in the sequence selected in these items. The settings are Floppy, LS/ZIP, HDD-0/HDD-1/HDD-2/HDD-3, SCSI, CDROM, LAN, and Disabled.

Swap Floppy Drive

Switches the floppy disk drives between being designated as A and B. Default is Disabled.

Boot Up Floppy Seek

During POST, BIOS will determine if the floppy disk drive installed is 40 or 80 tracks. 360K type is 40 tracks while 760K, 1.2M and 1.44M are all 80 tracks.

Boot Up NumLock Status

The default value is On.		
On	Keypad is numeric keys.	
Off (default)	Keypad is arrow keys.	

Gate A20 Option

Normal	The A20 signal is controlled by keyboard
	controller or chipset hardware.
Fast(default)	The A20 signal is controlled by port 92 or
	chipset specific method.

Typematic Rate Setting

Key strokes repeat at a rate determined by the keyboard controller. When enabled, the typematic rate and typematic delay can be selected. The settings are: Enabled/Disabled.

Typematic Rate (Chars/Sec)

Sets the number of times a second to repeat a key stroke when you hold the key down. The settings are: 6, 8, 10, 12, 15, 20, 24, 30.

Typematic Delay (Msec)

Sets the delay time after the key is held down before it begins to repeat the keystroke The settings are: 250, 500, 750, 1000.

Security Option

This category allows you to limit access to the system and Setup, or just to Setup.

System The system will not boot and access to Setup will be denied if the correct password is not entered at the prompt.

Setup(default)The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt.

OS Selection for DRAM > 64MB

Allows $OS2^{\circ}$ to be used with > 64 MB of DRAM. Settings are Non-OS/2 (default) and OS2. Set to OS/2 if using more than 64MB and running OS/2 $^{\circ}$.

Video BIOS Shadow

Determines whether video BIOS will be copied to RAM for faster execution. Video shadow will increase the video performance.

Enabled (default)	Video BIOS will be enabled
Disabled	Video BIOS will be disabled

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.

Choose the "ADVANCED CHIPSET FEATURES" from the Main Menu and the following screen will appear.

	<u>.</u>	
SDRAM Precharge Control System BIOS Cacheable Video RAM Cacheable Memory Hole At 15M-16M AGP ISA Aliasing K7 CLK CTL Select SDRAM PH Limit SDRAM The Limit SDRAM Tro Timing Value SDRAM Tro Timing Value SDRAM Tras Timing Value SDRAM CAS Latency	Disabled Disabled 64 Enabled Optimal 64 Cycle 8 Cycle 7 Cycle 2 Cycle 5 Cycle	Item Help Menu Level >
SDRAM Trcd Timing Value ↑↓→← Move Enter:Select +/-/F F5:Previous Values F6:Fail	- PU/PD:Value F10:Sa	-

CMOS Setup Utility - Copyright(C) 1984-1999 Award Software Advanced Chipset Features

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

SDRAM Precharge Control

This items allows you to Enabled or Disabled SDRAM Precharge Control.

System BIOS Cacheable

Selecting *Enabled* allows caching of the system BIOS ROM at F0000h-FFFFFh, resulting in better system performance. However, if any program writes to this memory area, a system error may result. The settings are: Enabled and Disabled.

Video RAM Cacheable

Select Enabled allows caching of the video RAM, resulting in better system performance. However, if any program writes to this memory area, a system error may result.

Memory Hole At 15M-16M

You can reserve this area of system memory for ISA adapter ROM. When this area is reserved, it cannot be cached. The user information of peripherals that need to use this area of system memory usually discusses their memory requirements. The settings are: Enabled and Disabled.

AGP Aperture Size (MB)

Select the size of the Accelerated Graphics Port (AGP) aperture. The aperture is a portion of the PCI memory address range dedicated for graphics memory address space. Host cycles that hit the aperture range are forwarded to the AGP without any translation.

AGP ISA Aliasing

This item allows you to enabled or disabled the AGP ISA aliasing.

K7 CLK_CTL Select

During Optimal, this item will auto-detect the processor clock generator. During None, the processor clock will always be set to 100MHz.

SDRAM PH Limit

This item specify the number of consecutive Page-Hit requests to allow before choosing a non Page-Hit request. The settings are: 1/4/32/64 cycles.

SDRAM Idle Limit

This item specify the number of idel cycles to wait before precharging an idle bank. The settings are: 1/8/32/64 cycles.

SDRAM Trc Timing Value

This item specify the minimum time to activate the same bank. The settings are: 3/4/5/6/7/8 cycles or reserved.

SDRAM Trp Timing Value

This item specify the delay from precharge command to activate command. The settings are 3/2/1 cycles

SDRAM Tras Timing Value

This item specify the minimum bank active time. The settings are: 2/3/4/5/6/7 cycles or reserved.

SDRAM CAS latency

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

SDRAM Trcd Timing Value

This item specify the delay from activation of a bank to the time that a read or write command is accepted. The settings are: 1/2/3/4 cycles.

3.7 Integrated Peripherals

CMOS Setup Utility - Copyright(C) 1984-1999 Award Software Integrated Peripherals

IDE Read/Write Prefetch IDE Primary Master PIO IDE Primary Slave PIO IDE Secondary Master PIO IDE Secondary Slave PIO IDE Primary Master UDMA IDE Primary Slave UDMA IDE Secondary Master UDMA IDE Secondary Master UDMA On-Chip Primary PCI IDE On-Chip Secondary PCI IDE USB Host Controller USB Keyboard Support Init Display First IDE HDD Block Mode Onboard FDC Controller Onboard Serial Port 1 Onboard Serial Port 2	Auto Auto Auto Auto Auto Auto Auto Enabled Enabled Enabled PCI Slot Enabled Enabled SF8/IRQ4	Item Help Menu Level >
IR Address Select IR Mode IR Transmittion delay		
IR IRQ Select ↓ → ← Move Enter:Select +/-/P F5:Previous Values F6:Fail		-
IR Mode Use DMA Onboard Parallel Port Parallel Port Mode ECP Mode Use DMA EPP Mode Select	Disable 378/IRQ7 SPP 3 EPP1.9	

IDE Read/Write Prefetch

During Enabled, the IDE Read/Write prefetch buffer will be used to store data for faster performance.

IDE Primary/Secondary Master/Slave PIO

The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 through 4 provide successively increased performance. In Auto mode, the system automatically determines the best mode for each device. The settings are: Auto, Mode 0, Mode 1, Mode 2, Mode 3, Mode 4.

IDE Primary/Secondary Master/Slave UDMA

Ultra DMA/33 implementation is possible only if your IDE hard drive supports it and the operating environment includes a DMA driver (Windows 95 OSR2 or a third-party IDE bus master driver). If your hard drive and your system software both support Ultra DMA/33 and Ultra DMA/66, select Auto to enable BIOS support. The settings are: Auto, Disabled.

OnChip Primary/Secondary PCI IDE

The integrated peripheral controller contains an IDE interface with support for two IDE channels. Select *Enabled* to activate each channel separately. The settings are: Enabled and Disabled.

USB Host Controller

Select *Enabled* if your system contains a Universal Serial Bus (USB) controller and you have USB peripherals. The settings are: Enabled, Disabled.

USB Keyboard Support

Select *Enabled* if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard. The settings are: Enabled, Disabled.

Init Display First

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

IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sector read/write. If your IDE hard drive supports block mode (most new drives do), select Enabled for automatic detection of the optimal number of block read/writes per sector the drive can support. The settings are: Enabled, Disabled.

Onboard FDC Controller

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

Onboard Serial Port 1/Port 2

Select an address and corresponding interrupt for the first and second serial ports. The settings are: 3F8/IRQ4, 2E8/IRQ3, 3E8/IRQ4, 2F8/IRQ3, Disabled, Auto.

Onboard IR Controller

This item allows you to Enabled or Disabled the onboard IR(Infrared) controller.

IR Address Select

This item allows you to select which address the IR will occupy.

IR Mode

This item allows you to select the IR mode.

IR Transmittion Delay

This item allows you to Enabled or Disabled the IR transmitting delay.

IR IRQ Select

This item allows you to select which IRQ the IR will occupy.

IR Mode Use DMA

This item allows you to Enabled or Disabled the IR using DMA mode.

Onboard Parallel Port

Disabled (3BCH/IRQ7)/ (278H/IRQ5)/ (378H/IRQ7) There is a built-in parallel port on the on-board Super I/O chipset that provides Standard, ECP, and EPP features. It has the following options:

Disable

3BCH/IRQ7	Line Printer port 0
278H/IRQ5	Line Printer port 2
378H/IRQ7	Line Printer port 1

Onboard Parallel Mode

SPP : Standard Parallel Port EPP : Enhanced Parallel Port ECP : Extended Capability Port

SPP/EPP/ECP/ ECP+EPP

To operate the onboard parallel port as Standard Parallel Port only, choose "SPP." To operate the onboard parallel port in the EPP modes simultaneously, choose "EPP." By choosing "ECP", the onboard parallel port will operate in ECP mode only. Choosing "ECP + EPP" will allow the onboard parallel port to support both the ECP and EPP modes simultaneously. The ECP mode has to use the DMA channel, so choose the onboard parallel port with the ECP feature. After selecting it, the following message will appear: "ECP Mode Use DMA" At this time, the user can choose between DMA

channels 3 or 1. The onboard parallel port is EPP Spec. compliant, so after the user chooses the onboard parallel port with the EPP function, the following message will be displayed on the screen: "EPP Mode Select." At this time either EPP 1.7 spec. or EPP 1.9 spec. can be chosen.

3.8 Power Management Setup

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

	0	1
ACPI Function Power Management Video Off Method Suspend Type	Enabled User Define DPMS Support PwrOn Suspend	Item Help
Standby Mode HDD Power Down HDD Down In Suspend	Disabled Disabled Disabled	Menu Level >
Soft-Off by BTN RI Resume/WOL Modem Use IRO	Instant-Off 3 3	
RTC Resume Date (of Month) Alarm	J Disabled 0	
Date (hh:mm:ss) Alarm	0	
Primary IDE 0 Primary IDE 1	Enabled Enabled	
-	Enabled Enabled	
Parallel Port Serial Port	Disabled Disabled	
~	Disabled Disabled	
IRQ5 (LPT 2) IRQ6 (Floppy Disk)	Disabled	
		ave ESC:Exit F1:General Help
F5:Previous Values F6:Fa		-
IRQ7 (LPT 1)	Disabled	
IRQ8 (RTC Alarm) IRQ9 (IRQ2 Redir)	Disabled Disabled	
IRQ10 (Reserved)		
IRQ12 (PS/2 Mouse)	Disabled	
	Disabled	
IRQ15 (Reserved)	Disabled	

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	Power Manageme	ent Setup	

ACPI Function

This item allows you to enable/disable the Advanced Configuration and Power Management (ACPI). The settings are: Enabled and Disabled.

Power Management

This category allows you to select the type (or degree) of power saving and is directly related to the following modes:

- 1. Suspend Mode
- 2. HDD Power Down

There are three selections for Power Management, two of which have fixed mode settings.

Minimum power management. Suspend Mode = 1	
hr., and HDD Power Down $= 15$ min.	
Maximum power management — Suspend	
Mode = 1 min. , and HDD Power Down = 1 min.	
Allows you to set each mode individually.	
When not disabled, each of the ranges are from	
1 min. to 1 hr. except for HDD Power Down	
which ranges from 1 min. to 15 min. and disable.	

Video Off Method

This determines the manner in which the monitor is blanked.

V/HSYNC+Blank	This selection will cause the system to turn off
	the vertical and horizontal synchronization
	ports and write blanks to the video buffer.
Blank Screen	This option only writes blanks to the video
	buffer.
DPMS (default)	Initial display power management signaling.

Suspend Type

Select the Suspend Type. The settings are: PWRON Suspend, Stop Grant.

Standby Mode

When enabled and after the set time of system inactivity, all devices except will be shut off. The settings are: 1/2/4/8/12/20/30/40 Min, 1 Hour, and Disabled.

HDD Power Down

When enabled and after the set time of system inactivity, the hard disk drive will be powered down while all other devices remain active. The settings are: 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15Min and Disabled.

HDD Down In Suspend

When enabled, the hard disk drive will be powered down with the other device during suspend mode.

The settings are: Enabled and Disabled.

Soft-Off by PWRBTN

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state. The settings are: Delay 4 Sec, Instant-Off.

RI Resume/WOL

To use this function, you need a LAN add-on card which support power on functions. It should also support the wake-up on LAN jumper (JWOL).

Enabled	Wake up on LAN supported.
Disabled	Wake up on LAN not supported.

Modem Use IRQ

This determines the IRQ in which the MODEM can use. The settings are: 3, 4, 5, 7, 9, 10, 11, NA.

RTC Resume

This function is for setting date and time for your computer to boot up. During Disabled, you cannot use this function. During Enabled, choose the Date and Time Alarm:

	Date(of month) Alarm	You can choose which month the system will boot up. Set to 0, to boot
		every day.
	Time(hh:mm:ss) Alarm	You can choose what hour, minute and second the system will boot up.
Note:	If you have change the sett	ing, you must let the system boot up until

Note: If you have change the setting, you must let the system boot up unti it goes to the operating system, before this function will work.

Reload Global Timer Events

Reload Global Timer events are I/O events whose occurrence can prevent the system from entering a power saving mode or can awaken the system from such a mode. In effect, the system remains alert for anything which occurs to a device which is configured as *Enabled*, even when the system is in a power down mode.

Primary IDE 0 Primary IDE 1 Secondary IDE 0 Secondary IDE 1 **Parallel Port** Serial Port IRQ3(COM 2) IRQ4(COM1) IRQ5 (LPT 2) **IRQ6** (Floppy Disk) IRQ7 (LPT 1) **IRQ8 (RTC Alarm)** IRQ9 (IRQ2 Redir) IRQ10 (Reserved) IRQ11 (Reserved) IRQ12 (PS/2 Mouse) IRQ13 (Coprocessor) **IRQ14 (Hard Disk)** IRQ15 (Reserved)

3.9 PnP/PCI Configuration Setup

This section describes configuring the PCI bus system. PCI, or **P**ersonal **C**omputer 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) 1984-1999 Awar	rd Software
PnP/PCI Configuration Setup	

PnP OS Installed Reset Configuration Data	No Disabled	Item Help	
Resources Controlled By IRQ Resources Memory Resources	Press Enter	Menu Level >	
PCI/VGA Palette Snoop	Disabled		
↓→← Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults			

PNP OS Installed

This item allows you to determine, whether to install PnP OS or not. The settings are: Yes or No.

Reset Configuration Data

Normally, you leave this field 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 operating system can not boot. The settings are: Enabled and Disabled.

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 " \geq "). 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.

Memory Resources

This sub menu can let you control the memory resource.

PCI/VGA Palette Snoop

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

3.10 Frequency/Voltage Control

This section is for setting CPU Frequency/Voltage Control.

Auto Detect DIMM/PCI Clk CPU Clock/Spread Spectrum		Item	Help
		Menu Level	>
↑ ↓ → ← Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults			

CMOS Setup Utility - Copyright(C) 1984-1999 Award Software Frequency/Voltage Control

Auto Detect DIMM/PCI CLK

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

CPU Clock/Spread Spectrum

This item allows you to set the CPU Clock/Spread Spectrum.

3.11 Load Fail-Safe/Optimized Defaults

Load Fail-Safe Defaults

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

Load Fail-Safe Defaults (Y/N)? N

Pressing 'Y' loads the BIOS default values for the most stable, minimalperformance 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.

3.12 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 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.