
AWARD® BIOS Setup

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The mainboard uses Award® BIOS ROM that has a built-in Setup program to allow users to modify the basic system configuration. The information is stored in battery-backed RAM (CMOS RAM) so that it retains the Setup information when the power is turned off.

This chapter provides you with the overview of the BIOS Setup program. It contains the following topics:

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Entering Setup

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.

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 by turning it OFF then On or pressing the RESET button to try again. You may also restart by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys.

Control Keys

<↑>	Move to the previous item
<↓>	Move to the next item
<←>	Move to the item in the left hand
<→>	Move to the item in the right hand
<Enter>	Select the item
<Esc>	Jumps to the Exit menu or returns to the main menu from a submenu
<+/PU>	Increase the numeric value or make changes
<-./PD>	Decrease the numeric value or make changes
<F1>	General help, only for Status Page Setup Menu and Option Page Setup Menu
<F5>	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
<F6>	Load the default CMOS value from Fail-Safe default table, only for Option Page Setup Menu
<F7>	Load Optimized defaults
<F10>	Save all the CMOS changes and exit

Getting Help

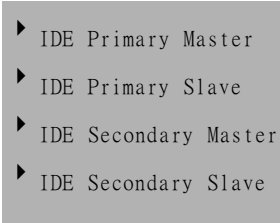
After entering the Setup menu, the first menu you will see is the Main Menu.

Main Menu

The main menu lists the setup functions you can make changes to. You can use the control keys (↑↓) to select the item. The on-line description of the highlighted setup function is displayed at the bottom of the screen.

Sub-Menu

If you find a right pointer symbol (as shown in the right view) appears to the left of certain fields that means a sub-menu can be launched from this field. A sub-menu contains additional options for a field parameter. You can use control keys (↑↓) to highlight the field and press <Enter> to call up the sub-menu. Then you can use the control keys to enter values and move from field to field within a sub-menu. If you want to return to the main menu, just press the <Esc>.



- ▶ IDE Primary Master
- ▶ IDE Primary Slave
- ▶ IDE Secondary Master
- ▶ IDE Secondary Slave

General Help <F1>

The BIOS setup program provides a General Help screen. You can call up this screen from any menu by simply pressing <F1>. The Help screen lists the appropriate keys to use and the possible selections for the highlighted item. Press <Esc> to exit the Help screen.

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The Main Menu

Once you enter Award® BIOS CMOS Setup Utility, the Main Menu 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 enter the sub-menu.

CMOS Setup Utility - Copyright(C) 1984-2000 Award Software	
▸ Standard CMOS Features	▸ Frequency/Voltage Control
▸ Advanced BIOS Features	Load Fail-Safe Defaults
▸ Advanced Chipset Features	Load Optimized 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	↑ ↓ → ←
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 items of Award special enhanced features.

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 Configuration

This entry appears if your system supports PnP/PCI.

PC Health Status

This entry shows your PC health status.

Frequency/Voltage

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 system performance 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.

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Standard CMOS Features

The items in Standard CMOS Setup Menu are divided into 10 categories. Each category includes none, 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.

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Standard CMOS Setup

Date(mm:dd:yy):	Fri,May 5,2000	Item Help
Time(hh:mm:ss):	00:00:00	
▶IDE Primary Master		Menu Level ▶ Change the day, month, year and century
▶IDE Primary Slave		
▶IDE Secondary Master		
▶IDE Secondary Slave		
Drive A	1.44M, 3.5in.	
Drive B	None	
Video	EGA/VGA	
Halt On	All, But Keyboard	
Based Memory	640K	
Extended Memory	64512K	
Total Memory	1024K	
↑ ↓ → ←::Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

Date

This allows you to set the system to the date that you specify (usually the current date). The 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

This allows you to set the system to the time that you specify (usually the current time). The time format is <hour> <minute> <second>.

**PrimaryMaster/PrimarySlave
SecondaryMaster/Secondary Slave**

Press PgUp/<+> or PgDn/<-> to select the hard disk drive category. The specification of hard disk drive will show on the right hand according to your selection. You can press <Enter> to enter the sub-menu. The sub-menu will appear as the following example:

IDE Primary Master		
IDE HDD Auto-Detection	Press Enter	Item Help
IDE Primary Master	Auto	Menu Level ▶▶ To auto-detect the HDD's size, head...on this channel
Access Mode	Auto	
Capacity	15021MB	
Cylinder	291024	
Head	16	
Precomp	0	
Landing Zone	29103	
Sector	63	

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

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Drive A, Drive B

This allows you to set the type of floppy drivers installed. Setting options: [None], [360K, 5.25in], [1.2M, 5.25in], [720k, 3.5in], [1.44M, 3.5in], [2.88M, 3.5in]. Drive A default value: [1.44M, 3.5in]. Drive B default value: [None].

Video

This allows you to set the type of video card. Setting options: [EGA/VGA] [CGA40] [CGA80] [MONO]. Default value: [EGA/VGA].

Halt on

This allows you to set the type of errors that will cause system halt on. Setting option: [All Errors] [No Errors] [All, But Keyboard] [All, But Diskette] [All, But Disk/Key]. Default value: [All, But Keyboard].

All Errors: The system will halt on and display the error message if any error happens.

No Errors: The system will not halt on no matter any error happens.

All, But Keyboard: The system will halt on if any error happens. But the system will not halt on if the keyboard function is not normal.

All, But Disk/Key: The system will halt on if any error happens. But the system will not halt on if the disk drive and keyboard function is not normal.

Advanced BIOS Features

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Advanced BIOS Features


Anti-Virus Protection	Disabled	Item Help
CPU Internal Cache	Enabled	
External Cache	Enabled	Menu Level >
Quick Power On Self Test	Enabled	
First Boot Device	Floppy	
Second Boot device	HDD-0	Allows you to choose
Third Boot device	LS120	the VIRUS warning
Boot other device	Enabled	feature for IDE Hard
Swap Floppy Drive	Disabled	Disk boot sector
Boot Up Numlock Status	On	protection. If this
Security Option	Setup	function is enabled
OS Select for DRAM > 64MB	Non-OS2	and someone attempt to
HDD S.M.A.R.T Capability	Disabled	write data into this
Video BIOS Shadow	Enabled	area, BIOS will show a
		warning message on
		screen and alarm beep
↑ ↓ → ←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

Anti-Virus Protection

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 date into this area, BIOS will show a warning message on screen and alarm beep. Setting options: [Disabled] [Enabled]. Default value: [Disabled]

CPU Internal Cache

This allows you to choose from the default of [Enabled] or choose [Disabled] to turn on or off the CPU’s internal cache. Setting options: [Disabled] [Enabled].

 **Note:** The internal cache is built in the processor.

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External Cache

This allows you to choose from the default of [Enabled] or choose [disabled] to control the function of level 2 cache memory. Setting options: [Disabled] [Enabled]. Default value: [Enabled].

Quick Power On Self Test

This allows you to speed 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. Setting options: [Disabled] [Enabled]. Default value: [Enabled].

First/Second/Third/Boot Other Device

This allows you to set the sequence of boot device from that the BIOS attempts to load the operating system. Setting options: [Floppy] , [LS120] , [HDD-0] , [HDD-1] , [HDD-2] , [HDD-3] , [SCSI] , [CDROM] , [LAN] , [ZIP100] , [Disabled].

Swap Floppy Drive

This allows you to choose from the default of [Disabled] or choose [Enabled] to switch the floppy disk drives between being designated as A and B. Setting options: [Disabled] [Enabled]. Default value: [Disabled]

Boot Up NumLock Status

This allows you to set the NumLock status when you boot up your computer. When you choose from the default of [On], the keypad is numeric keys. When you choose [Off], the keypad is arrow keys. Setting options: [On] [Off]. Default value: [On]

Security Option

This allows you to limit access to the system and Setup, or just to Setup. When you choose from the default of [Setup], the system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. When you choose [System], the system will not boot and access to Setup will be denied if the correct password is not entered at the prompt. Setting options: [Setup] [System]. Default value: [Setup]

OS Select for DRAM > 64MB

This allows you to run the OS/2® operating system with > 64 MB of DRAM. When you choose from the default of [Non-OS2], you cannot run the OS/2® operating system with > 64 MB of DRAM. When you choose [OS2], it is possible. Setting options: [Non-OS/2] [OS2]. Default value: [Non-OS/2]

HDD S.M.A.R.T Capability

This allows you to set the HDD S.M.A.R.T capability. S.M.A.R.T is a utility that monitors your disk hardware with the goal of identifying disks that have a strong possibility of crashing. This provides you a window of opportunity to gracefully remove data from a failing disk and take it offline before your disk drive takes you offline. Setting options: [Enabled] [Disabled]. Default value: [Disabled]


Video BIOS Shadow

This allows the video BIOS to be copied to shadow RAM to improve the video performance. Setting options:[Enabled] [Disabled]. Default value: [Enabled]

Advanced Chipset Features

System BIOS Cacheable	Disabled	Item Help
Video RAM Cacheable	Disabled	
Memory Hole at 15M-16M	Disabled	Menu Level >
AGP Aperture Size (MB)	128	
AGP ISA Aliasing	Enabled	
AGP Secondary Lat Timer	20h	
AGP Fast Write	Enabled	
AGP Data Transfer Mode	4X	
K7 CLK_CTL Select	Optimal	
SDRAM ECC Setting	Disabled	
Super Bypass Mode	Enabled	
SDRAM Timing by SPD	Enabled	
xSDRAM PH Limit	8 cycle	
xSDRAM Idle Limit	8 cycle	
xSDRAM Trc Timing Value	8 cycle	
xSDRAM Trp Timing Value	3 cycle	
xSDRAM Tras Timing Value	7 cycle	
xSDRAM CAS Latency	2 cycle	
xSDRAM Trcd Timing Value	3 cycle	

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

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

System BIOS Cacheable

Selecting Enabled allows the 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. Setting options:[Enabled] [Disabled]. Default value: [Disabled]

Video RAM Cacheable

Selecting 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. Setting options:[Enabled] [Disabled]. Default value: [Disabled]

Memory Hole at 15M-16M

This allows you to reserve an address space for ISA expansion cards that require it. Setting options:[Enabled] [Disabled]. Default value: [Disabled].

AGP Aperture Size (MB)

This allows you to select the size of 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. Setting options:[32] [64] [128] [256]. Default value: [128]

AGP ISA Aliasing

When enabled, it will force address bits [15:10] are not used in decoding. When disabled, [15:10] are used for decoding. Setting options: [Enabled] [Disabled]. Default value: [Enabled]

AGP Secondary Lat Timer

This allows you to set the AGP Secondary Lat Timer. Setting options : [00h] [20h] [40h] [60h] [80h] [C0h] [FFh]. Default value: [20h]

AGP Fast Write

This allows you to enable or disable the function of “AGP Fast Write” for data transfer. Setting options: [Disabled] [Enabled]. Default value: [Enabled]

AGP Data Transfer Mode

This allows you to set the AGP Data Transfer Mode. Setting options: [1x/2x], [4x]. Default value: [4x]

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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. Setting options: [Optimal] [Default]. Default value: [Optimal]

SDRAM ECC Setting

This allows you to set the SDRAM Error Correcting Code. Setting options: [Disabled] [Check Only] [Correct Errors] [Correct+Scrub]. Default value: [Disabled]

Super Bypass Mode

When enabled, the chipset internally bypass certain memory to CPU pipe stages for optimal performance. Setting options: [Disabled] [Enabled]. Default value: [Enabled]

SDRAM Timing by SPD

When choosing “Enabled”, the SDRAM configures items by reading the contents in the SPD (Serial Presence Detect) device. Setting options: [Enabled] [Disabled]. Default value: [Enabled]

Integrated Peripherales

Onchip IDE Channel0	Enabled	Item Help
Onchip IDE Channel1	Enabled	
Init Display First	PCI Slot	Menu Level >
Onboard SCSI	Enabled	
SCSI Terminator	Enabled	
OnChip USB	Enabled	
USB Keyboard Support	Disabled	
AC97 Audio	Auto	
MC97 Modem	Auto	
Onboard FDD Controller	Enabled	
Onboard Serial Port 1	Auto	
Onboard Serial Port 2	Auto	
UART2 Mode	Standard	
xIR Function Duplex	Half	
xTX,RX inverting enable	No, Yes	
Onboard Parallel Port	378/IRQ7	
Onboard Parallel Mode	Normal	
ECP Mode Use DMA	3	
Parallel Port EPP Type	EPP1.9	
Onboard Legacy Audio	Enabled	
Sound Blaster	Enabled	
SB I/O Base Address	220H	
SB IRQ Select	IRQ5	
SB DMA Select	DMA1	
MPU-401	Disabled	
MPU-401 I/O Address	330-333H	
Game Port (200-207#)	Enabled	
↑ ↓ → ←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

OnChip IDE Channel0/Onchip IDE Channel1

The integrated peripheral controller contains an IDE interface with support for two IDE channels. Choose the default of [Enabled] to activate each channel separately. Setting options: [Enabled] [Disabled]. Default value: [Enabled]

Init Display First

This item allows you to decide to activate whether PCI Slot or AGP Slot. Setting options: [PCI Slot] [AGP]. Default value: [PCI Slot].

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Onboard SCSI

This allows you to use the onboard SCSI function. Setting options: [Enabled] [Disabled]. Default value: [Enabled].

SCSI Terminator

This allows you to use the function of SCSI Terminator. Setting options: [Enabled] [Disabled]. Default value: [Enabled].

OnChip USB

This should be Enabled if your system has a USB installed on the system board and you wish to use it. If you want to add a higher performance controller, you will need to disable this feature. Setting options: [Enabled] [Disabled]. Default value: [Enabled]

USB Keyboard Support

Select Enabled if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard. Setting options: [Enabled] [Disabled]. Default value: [Enabled]

AC97 Audio/MC97 Modem

[Auto] allows the motherboard's BIOS to detect whether you're using any audio/modem device. If it is, the onboard modem/audio controller will be enabled. If not, the onboard modem/audio controller will be disabled. If you want to use different controller cards to connect modem and audio connectors, set these fields to [Disabled]. Setting options: [Auto] [Disabled]. Default value: [Auto]

Onboard FDD Controller

This item allows you to enable or disable the onboard FDD controller. Setting options: [Enabled] [Disabled]. Default value: [Enabled]

Onboard Serial Port 1/2

Select an address and corresponding interrupt for the serial port 1 and 2. Setting options: [Disabled] [3F8/IRQ4] [2F8/IRQ3] [3E8/IRQ4] [2E8/IRQ3] [Auto]. Default value:[Auto]

UART2Mode

This item allows you to select which mode for the Onboard Serial Port 2. Setting options: [Standard], [HPSIR}, [ASKIR}.

Onboard Parallel Port

There is a built-in-parallel port on the onboard Super I/O chipset that provides Standard, ECP, and EPP features. Setting options: [Disabled] [3BC/IRQ7] [378/IRQ7] [278/IRQ5]. Default value: [378/IRQ7]

Onboard Parallel Mode

This allows you to set the Parallel Port Mode. Setting options: [Normal] [EPP] [ECP] [ECP/EPP]. Default value: [Normal]

ECPMode UseDMA

This allows you to select a DMA channel for the parallel port for use during ECP mode. Setting options: [1] [3]. Default value: [3]

Parallel Port EPP Type

This allows you to select Parallel Port EPP type. Setting options: [1.9] [1.7]. Default value: [1.9]

Onboard Legacy Audio

This allows you to enable/disable the onboard legacy audio. Setting options: [Disabled] [Enabled]. Default value: [Enabled]

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Sound Blaster

Choosing [Enabled] if you want to use the onboard SB function and choosing [Disabled] if you want to change the default value. Setting options: [Enabled], [Disabled]. Default value: [Enabled].

SB I/O Base Address

This allows you to select the SB I/O address. Setting options: [220H], [240H], [260H], [280H]. Default value: [220H].

SB IRQ Select

This allows you to select the SB Interrupt Request and there are four choices. Setting options: [IRQ5], [IRQ7], [IRQ9], [IRQ10]. Default value: [IRQ5].

SB DMA Select

This allows you to select the SB Direct Memory Access Request. Setting options: [DMA1], [DMA0], [DMA2], [DMA3]. Default value: [DMA1]

MPU-401

Choosing [Enabled] if you want to use the MIDI function and choosing [Disabled] if you want to change the default value. Setting options: [Enabled], [Disabled]. Default value: [Disabled].

MPU-401 I/O Address

This allows you to select the MIDI I/O address and there are four choices. Setting options: [300-303H], [310-313H], [320-323H], [330-333H]. Default value: [330-333H].

Game Port (200-207H)

This allows you to use the function of Game Port. Setting options: [Enabled], [Disabled]. Default value: [Enabled].

Power Management Setup

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

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Power Management Setup

ACPI Function	Enabled	Item Help
ACPI Suspend Type	S1 (POS)	
USB KB/MS Wake-Up from S3	Disabled	Menu Level >
Power Management	User Define	
Video Off Method	DPMS Support	
Standby Mode	Disabled	
HDD Power Down	Disabled	
HDD Down In Suspend	Disabled	
Soft-Off by PBTN	Instant-off	
Sleep State LED	Blink	
PWRON After PWR-Fail	off	
Wake Up On PME	Disabled	
Wake Up On Ring/LAN	Disabled	
MODEM Use IRQ	3	
RTC Resume	Disabled	
x Date (of Month) Alarm	0	
x Time (hh:mm:ss)	0 0 0	
xx IRQ Wakeup Events xx		
↑ ↓ → ←: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

ACPI Function

This item allows you to set ACPI (Advanced Configuration and Power Management) function. Setting options: [Enabled] [Disabled]. Default value: [Enabled]

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ACPI Suspend Type

This item allows you to set the ACPI suspend type you will use. Setting options: [S1 (POS)] [S3 (STR)]. Default value: [S1 (POS)]

S1 (POS)	The S1 sleeping state is low wake-up latency sleeping state. In this state, no system context is lost (CPU or chip set) and hardware maintains all system context.
S3 (STR)	The S3 state is a low wake-up latency sleeping state. In this state all system context is lost except system memory. CPU, cache, and chipset context are lost in this state. Hardware maintains memory context and restores some CPU and L2 configuration context.

USB KB/MS Wake-Up from S3

This option is used to Enabled/Disabled USB keyboard wake up with suspend to RAM. Setting options: [Disabled] [Enabled]. Default value: [Disabled]

Power Management

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

HDD Power Down Doze Mode Suspend Mode

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

Min. Saving	Minimum power management. Standby Mode = 1hr., and HDD Power Down = 1 min.
Max. Saving	Maximum power management. Standby Mode = 30 sec.. HDD Power Down "Disabled"
User Define (default)	Allow you to set each mode individually. When not disabled, each of the ranges are from 30 sec. 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/H SYNC+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 Support (default)	Initial display power management signaling.

Standby Mode

This allows you to set the time period before the system goes into standby mode. Setting options: [30sec] [Disabled] [1/4/10/20/30 min] [1 hour]. Default value:[Disabled]

HDD Power Down

This allows you to set the time period before the hard disk drive will be powered down while all other devices remain active. Setting options: [Disabled] [1/2/3/4/5/6/7/8/9/10/11/12/13/14/15 min]. Default value: [Disabled]

HDD Down In Suspend

When enabled, the hard disk drive will be powered down while the other devices are in suspend mode. Setting options: [Disabled] [Enabled]. Default value: [Disabled]

Soft-off by PBTN

Choose the value of [Delay 4 Sec] to allow pressing the power button for more than 4 seconds to force the system to enter the Soft-Off state. Setting options: [Delay 4 sec] [Instant-Off]. Default value: [Instant-Off]

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Sleep State LED

This allows you to determine the state the Power LED will use when the system enters the sleep mode. Setting options: [Single] [Dual] [Blink]. Default value: [Blink]

Blink Power LED will blink when the system enters the sleep mode.

Single Power LED will always remain lit.

Dual Power LED will change its color when the system enters the sleep mode.

PWRON After PWR-Fail

This allows you to set whether you want your system to reboot after the power has been interrupted. [Off] leaves your system off and [On] reboots the system. [Former-sts] leaves the system in the former status. Setting options: [Off] [On] [Former-sts]. Default value: [off]

Wake Up On PME

This allows your computer to be booted from another computer via a network by sending a wake-up frame or signal. Setting options: [Enabled] [Disabled]. Default value: [Disabled]

Wake Up On Ring/LAN

To use this function, you need a Modem which supports power on functions. During the default value of [Disabled], the system cannot be booted up from modem and ignores any incoming call from modem. During [Enabled], the system can be booted up through modem.

Modem Use IRQ

This determines the IRQ in which the MODEM can use. Setting options: [3] [4] [5] [7] [9] [10] [11] [NA]. Default value: [3].

RTC Resume


This allows you to set the date and time alarm for your computer to boot up. During [Disabled], you cannot use this function. During the value of [Enabled], you can set the date and time alarm. Default value: [Disabled]

- Date (of Month) Alarm

You can choose which month the system will boot up. Setting “0” will allow you to boot the system 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 setting, you must let the system boot up until it goes to the operating system, before this function will work.*

Chapter 3

PnP/PCI Configurations

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.

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PnP/PCI Configuration Setup

PNP OS Installed	No	Item Help
Clear ESCD	Disabled	
Resources Controlled By	Auto (ESCD)	Menu Level > Select Yes if you are using a Plug and Play capable operation system Select No if you need the BIOS to congigure non-boot devices
xIRQ Resources	Press Enter	
xDMA Resources	Press Enter	
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

When set to YES, BIOS will only initialize the PnP cards used for booting (VGA, IDE, SCSI). The rest of the cards will be initialized by the PnP operating system like Windows® 95 or 98. When set to NO, BIOS will initialize all the PnP cards. So, for non-PnP operating system (DOS, Netware®), this option must set to Yes.

Clear ESCD

The ESCD (Extended System Configuration Data) is a method that the BIOS uses to store resource information for both PNP and non PNP devices in a bit string format. When “Enabled”, the system will rebuilt ESCD and you will see the message “ESCD Update Successfully” on boot up.

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. (If you choose “Auto”, the IRQ Resources and DMA Resources will not have function.)

IRQ Resources

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

DMA Resources

This sub menu can let you control the DMA resource.

PCI/VGA Palette Snoop

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

Chapter 3

PC Health Status

This section helps you to get more information about your system including CPU temperature, FAN speed and voltages. It is recommended that you contact with your motherboard supplier to get proper value about your setting of the CPU temperature.

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PC Health Status

Current CPU Temp. Current System Temp. Current CPUFAN Speed Current SYSFAN Speed Vcore 2.5V 3.3V 5V 12V	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	

Current CPU Temp.

This item shows the current CPU temperature.

Current System Temp.

This item shows the current system temperature.

Current CPUFAN Speed

This item shows the current CPUFAN speed.

Current SYSFAN Speed

This item shows the current SYSFAN speed.

Vcore

This item shows the current system voltage.

Frequency/Voltage Control

This section is for setting CPU Frequency/Voltage Control.

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Frequency/Voltage Control

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

Auto Detect DIMM/PCI CLK

This item allows you to enable/disable auto detect DIMM/PCI Clock.
Default value: [Enabled]. Setting options: [Enabled] [Disabled]

Spread Spectrum Modulated

This item allows you to set the Spread Spectrum. Default value: [Disabled].

CPU Host/PCI Clock

This item allows you to set the CPU Host/PCI clock. Default value: [Default].

CPU Vcore Select

This item allows you to select the current system voltage.

CPU Ratio

This item allows you to set the CPU Ratio.

Load Fail-Safe/Optimized Defaults

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<ul style="list-style-type: none"> ▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Advanced Chipset Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations ▶ PC Health Status 	<ul style="list-style-type: none"> ▶ Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password <div style="background-color: #cccccc; padding: 5px; margin-top: 10px;"> Load Fail-Safe Defaults (Y/N)? N </div>
Esc: Quit ↑ ↓ → ←	
F10: Save & Exit Setup	
Time, Date, Hard Disk Type...	

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Load Optimized Defaults

When you select this function, a message as below will appear on the screen:

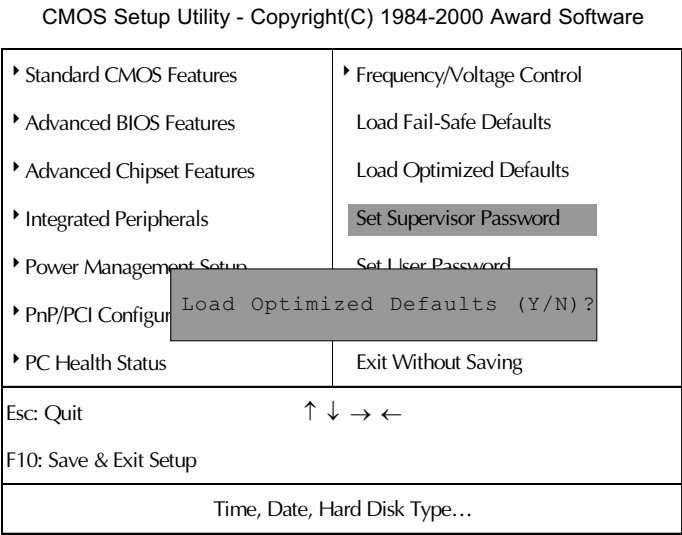
CMOS Setup Utility - Copyright(C) 1984-2000 Award Software

<ul style="list-style-type: none"> ▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Advanced Chipset Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations ▶ PC Health Status 	<ul style="list-style-type: none"> ▶ Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving
Esc: Quit ↑ ↓ → ←	
F10: Save & Exit Setup	
Time, Date, Hard Disk Type...	

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

Set Supervisor/User Password

When you select this function, a message as below will appear on the screen:



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.

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.

About Supervisor Password & User Password:

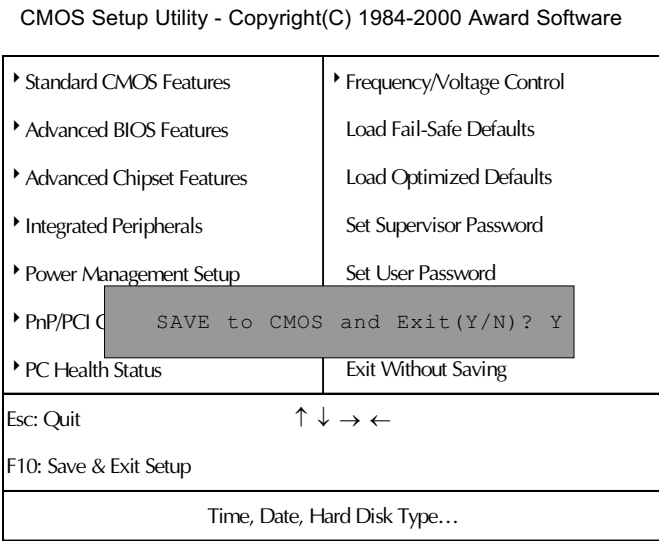
Supervisor password : Can enter and change the options of the setup menus.

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.

Chapter 3

Save & Exit Setup

When you want to quit the Setup menu, you can select this function to save the data. A message as below will appear on the screen:



Typing “Yes” will allow you to quit the Setup Utility and save the user setup value to RTC CMOS.

Typing “N” will allow you to return to Setup Utility.

Chapter 3