
2. BIOS Setup

Introduction

This chapter discusses the Award Setup program built into the ROM BIOS. The Setup program allows the user to modify the basic system configuration. This special information is then stored in battery-backed RAM so that it retains the setup information when the power is turned off.

The Award BIOS installed in your computer system's ROM (Read Only Memory) is a custom version of an industry standard BIOS. This means that it supports Intel Celeron/ Coppersmine PIII Processors. The BIOS provides critical low-level support for standard devices such as disk drives and serial and parallel ports.

The rest of this manual is intended to guide you through the process of configuring your system using Setup.

Plug and Play Support

This AWARD BIOS support the Plug and Play Version 1.0A specification. ESCD(Extended System Configuration Data)write is supported.

EPA Green PC Support

This AWARD BIOS supports Version 1.03 of the EPA Green PC specification.

PCI Bus Support

This AWARD BIOS also supports Version 2.1 of the Intel PCI (Peripheral Component Interconnect)local bus specification.

APM Support

This AWARD BIOS supports Version 1.1&1.2 of the Advanced Power Management(APM) specification. Power management features are implemented via the System Management Interrupt(SMI). Sleep and Suspend power management modes are supported. Power to the hard disk drives and video monitors can be managed by this AWARD BIOS.

DRAM Support

SDRAM (Synchronous DRAM) are supported.

Support CPU

This AWARD BIOS supports the Intel Celeron/Coppermine PIII Processors.

Using Setup

In general, use the arrow keys to highlight items, press <Enter>to select, use the <PgUp>and <PgDn>keys to change entries, press<F1>for help and press <Esc>to quit. The following provides more detail about how to navigate in the Setup program by using the keyboard.

Note:

(BIOS version 1.0 is for reference only. If there is a change in BIOS version, please use the actual version on the BIOS.)

Keystroke	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left (menu bar)
Right arrow	Move to the item on the right (menu bar)
Esc	Main Menu: Quit without saving changes Submenus: Exit Current page to the next higher level menu
Move Enter	Move to item you desired
PgUp key	Increase the numeric value or make changes
PgDn key	Decrease the numeric value or make changes
+Key	Increase the numeric value or make changes
-Key	Decrease the numeric value or make changes
Esc Key	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
F1 Key	General help on Setup navigation keys.
F5 Key	Load previous values from CMOS
F6 Key	Load the fail-safe defaults from BIOS default table
F7 Key	Load the optimized defaults
F10 Key	Save all the CMOS changes and exit

Advanced BIOS Features

Introduce all the items of the BIOS special enhanced features.

Advanced Chipset Features

Introduce all the items of the Chipset special enhanced features.

Integrated Peripherals

This selection page includes all the items of the IDE hard drive and Programmed Input/Output features.

Power Management Setup

Introduce all the items of the power management features.

PnP/PCI Configuration

Introduce the user defined or default IRQ Setting.

PC Health Status

Introduce the hardware Monitor information of the system.

Frequency / Voltage Control

This setup page controls the CPU's clock and frequency ratio.

Load Fail-Safe Defaults

To load the BIOS default values for the minimal/stable performance for your system to operate.

Load Optimized Defaults

These settings are more likely to configure a workable computer when something is wrong. If you cannot boot the computer successfully, select the BIOS Setup options and try to diagnose the problem after the computer boots. These settings do not provide optional performance.

Set User Password

You can specify both a User and a Supervisor password. When you select either password option, you are prompted for a 1-6 character password. Enter the password and then re-type the password when prompted.

Save & Exit Setup

Save CMOS value, change to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

2.2 Standard CMOS Features

This item in the Standard CMOS Setup Menu is 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.

© Figure 2. Standard CMOS Features

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Standard CMOS Features

Date(mm:dd:yy)	Tue,Jun 6 2000	Item Help
Time (hh:mm:ss)	11:26:10	
IDE Primary Master	Press Enter None	Menu Level
IDE Primary Slave	Press Enter None	Change the day, month,year and century.
IDE Secondary Master	Press Enter None	
IDE Secondary Master	Press Enter None	
Drive A	1.44M,3.5 in	
Drive B	None	
Video	EGA/VGA	
Halt On	All,But Keyboard	
Base Memory	640K	
Extended Memory	391168K	
Total	392192K	

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

Main Menu Selections

This table shows the selections that you can make on the Main Menu.

Item	Options	Description
Date	Month DD YYYY	Set the system,date. Note that the 'Day' automatically changes when you set the data.
IDE Primary Master	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
IDE Primary Slave	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
IDE Secondary Master	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
IDE Secondary Slave	Options are in its sub menu.	Press<Enter> to enter the sub menu of detailed.
Drive A Drive B	None 360K,5.25in 1.2M,5.25in 720K,3.5in 1.44M,3.5in 2.88M,3.5in	Select the type of floppy disk drive installed in your system.
Video	EGA/VGA CGA 40 CGA 80 MONO	Select the default video device.

Item	Options	Description
Halt On	All Errors No Errors All, but Keyboard All, but Diskette All, but Disk/Key	Select the situation in which you want the BIOS to stop the POST process and notify.
Base Memory	N/A	Displays the amount of conventional memory detected during boot up.
Extended Memory	N/A	Displays the amount of conventional memory detected during boot up.
Total Memory	N/A	Displays the total memory available in the system.

2.3 Advanced BIOS Features

© Figure 3. Advanced BIOS Features

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Advanced BIOS Features

Virus Warning	Disabled	Item Help
CPU Internal Cache	Enabled	Menu Level
External Cache	Enabled	
CPU L2 Cache ECC Checking	Enabled	Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempts to write data into this area, BIOS will show a warning message on screen and sound an alarm
Processor Number Feature	Enabled	
Quick Power On Self Test	Enabled	
First Boot Device	Floppy	
Second Boot Device	HDD-0	
Third Boot Device	LS120	
Boot Other Device	Enabled	
Swap Floppy Drive	Disabled	
Boot Up Floppy Seek	Enabled	
Boot Up NumLock Status	On	
Gate A20 Option	Fast	
Typematic Rate Setting	Disabled	
Typematic Rate (Chars/Sec)	6	
Typematic Delay (Msec)	250	
Security Option	Setup	
OS Select For DRAM >64MB	Non-OS2	
HDD S.M.A.R.T. Capability	Disabled	
Report No FDD For WIN 95	No	

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

Virus Warning

This option allows you to choose the VIRUS Warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempts to write data into this area, BIOS will show a warning message on screen and sound an alarm.

The Choices: Disabled(default), Enabled.

CPU Internal Cache

These two categories speed up memory access. However, it depends on CPU/chipset design.

Enabled (default) Enabled cache.

Disabled Disabled cache.

External Cache

This fields allow you to Enable or Disable the CPU'S "Level 2" secondary cache. Caching allows better performance.

Enabled (default) Enabled cache.

Disabled Disabled cache.

CPU L2 Cache ECC Checking

The item allows you to enable/disable CPU L2 Cache ECC Checking.

The Choices: Enabled(default), Disabled.

Processor Number Feature

The item will show up when you install the Pentium III processor.

Enabled (default) Pentium Processor Number
Feature.

Disabled Disabled.

Quick Power On Self Test

This category speeds up Power on self-Test(POST) after you power up the computer. If it is set to Enable, BIOS will shorten or skip some check items during POST.

Enabled (default) Enabled quick POST.

Disabled Normal POST.

First/Secondary/Third/Boot Other Device

This BIOS attempts to load the operating system from the devices in the sequence selected in these items.

The Choices: Floppy, LS120, HDD-0, HDD-1, HDD-2, HDD-3, SCSI, CDROM, Enabled, ZIP, LAN, Disabled.

Swap Floppy Drive

If the system has two floppy drives, you can swap the logical drive name assignments.

The Choices: Disabled(default), Enabled.

Boot Up Floppy Seek

Seek disk drives during boot up. Disabled speeds boot-up.

The Choices: Enabled(default), Disabled.

Boot Up NumLock Status

Select power on for Numlock.

On (default) Numpad is number keys.

Off Numpad is arrow keys.

Gate A20 Option

Select if chipset or keyboard controller should control Gate A20.

Normal A pin in the keyboard controller controls Gate A20.

Fast (default) Lets chipset control Gate A20.

Typematic Rate Setting

Enabled Enabled this option to adjust the keystroke repeat rate.

Disabled (default) Disabled.

Typematic Rate (Char/Sec)

Range between 6 (**default**) and 30 characters per second.

This option controls the speed of repeating keystrokes.

Typematic Delay (Msec)

This option sets the time interval for displaying the first and the second characters.

The Choices: 250(default), 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 in prompt.

Setup (default)

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

HDD S.M.A.R.T. Capability**Enabled**

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

Disabled (default)

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

OS Select For DRAM >64MB

Select the operating system that is running with greater than 64MB of RAM on the system.

The Choices: Non-OS2(default), OS2.

Report No FDD For Window 95**No (default)**

Assign IRQ6 For FDD.

Yes

FDD Detect IRQ6 Automatically.

2.4 Advanced Chipset Features

This section allows you to configure the system based on the specific features of the installed chipset. This chipset manages bus speeds and access to system memory resources, such as DRAM and external cache. It also coordinates communications of the PCI bus. It must be stated that these items should never need to be altered. The default settings have been chosen because they provide the best operating conditions for your system. The only time you might consider making any changes would be if you discovered that data was being lost while using your system.

© Figure 4. Advanced Chipset Features

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Advanced Chipset Features

SDRAM CAS Latency/Time	3	Item Help
SDRAM Cycle Time Tras/Trc	7/9	
SDRAM RAS -to- CAS Delay	3	Menu Level
SDRAM RAS Precharge Time	3	
System BIOS Cacheable	Disabled	
Video BIOS Cacheable	Disabled	
Memory Hole At 15M-16M	Disabled	
CPU Latency Timer	Enabled	
Delayed Transaction	Enabled	
On-Chip Video Window Size	64MB	
AGP Graphic Aperture Size	64MB	
System Memory Frequency	Auto	

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

SDRAM CAS Latency / Time

- | | |
|--------------------|----------------------------|
| 3 (default) | Slower SDRAM DIMM Module. |
| 2 | Fastest SDRAM DIMM Module. |

SDRAM Cycle Time Tras/Trc

- | | |
|----------------------|---|
| Auto | |
| 7/9 (default) | Set SDRAM Tras/Trc Cycle time in 7/9 SCLKs. |
| 5/7 | Set SDRAM Tras/Trc Cycle time in 5/7 SCLKs. |

SDRAM RAS -to- CAS Delay

- | | |
|--------------------|---------------------------------------|
| 3 (default) | Set SDRAM RAS -to- CAS delay 3 SCLKs. |
| 2 | Set SDRAM RAS -to- CAS delay 2 SCLKs. |

SDRAM RAS Precharge Time

- | | |
|--------------------|------------------------------------|
| 3 (default) | Set SDRAM RAS Precharge Time to 3. |
| 2 | Set SDRAM RAS Precharge Time to 2. |

System BIOS Cacheable

When enabled, the access to the system BIOS ROM address at F0000H-FFFFFFH is cached.

The Choices: Disabled(default), Enabled.

Video BIOS Cacheable

- | | |
|---------------------------|--------------------------------|
| Enabled | Enabled Video BIOS Cacheable. |
| Disabled (default) | Disabled Video BIOS Cacheable. |

Memory Hole At 15-16M

In order to improve performance, certain space in memory can be reserved for ISA cards. This memory must be mapped into the memory's space below 16MB.

The Choices: Disabled(default), Enabled.

CPU Latency Timer

Enabled (default)

Enabled.

Disabled

Disabled.

Delayed Transaction

Enabled (default)

Slow speed ISA device in system.

Disabled

Disabled.

On-Chip Video Window Size

64MB (default)

Set Graphics Aperture Size to 64 MB.

32MB

Set Graphics Aperture Size to 32 MB.

AGP Graphics Aperture Size

64MB (default)

AGP Graphics Aperture Size is 64 MB.

32MB

AGP Graphics Aperture Size is 32 MB.

System Memory Frequency

Auto (default)

System Memory Frequency to Auto.

100MHz

Set system Memory Frequency to 100MHz.

133MHz

Set system Memory Frequency to 133MHz.

2.5 Integrated Peripherals

© Figure 5. Integrated Peripherals

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Integrated Peripherals

On-Chip Primary PCI IDE	Enabled	Item Help
On-Chip Secondary PCI IDE	Enabled	
IDE Primary Master PIO	Auto	Menu Level
IDE Primary Slave PIO	Auto	
IDE Secondary Master PIO	Auto	
IDE Secondary Slave PIO	Auto	
IDE Primary Master UDMA	Auto	
IDE Primary Slave UDMA	Auto	
IDE Secondary Master UDMA	Auto	
IDE Secondary Slave UDMA	Auto	
USB Controller	Enabled	
USB Mouse Support	Enabled	
USB Keyboard Support	Enabled	
Init Display First	PCI Solt	
AC97 Modem	Auto	
AC97 Audio	Auto	
IDE HDD Block Mode	Enabled	
Power On Function	Button Only	
KB Power On Password	Enter	
Hot Key Power On	Ctrl-F1	
Onboard FDC Controller	Enabled	
Onboard Serial Port 1	3F8/IRQ4	
Onboard Serial Port 2	2F8/IRQ3	
UART Mode Select	Normal	
RxD,TxD Active	Hi,Lo	
IR Transmission Delay	Enabled	
UR2 Duplex Mode	Half	
Use IR Pins	IR/Rx2Tx2	
Onboard Paraller Port	378/IRQ7	
Parallel Port Mode	SPP	
EPP Mode Type	EPP1.7	
ECP Mode Use DMA	3	
PWRON After PWR-Fail	Off	
Game Port Address	201	
Midi Port Address	330	
Midi Port IRQ	10	

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

On-Chip Primary PCI IDE

Enabled (default)	Enabled onboard 1st channel IDE port.
Disabled	Disabled onboard 1st channel IDE port.

On-Chip Secondary PCI IDE

Enabled (default)	Enabled onboard 2nd channel IDE port.
Disabled	Disabled onboard 2nd channel IDE port.

IDE Primary Master PIO (for onboard IDE 1st channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

IDE Primary Slave PIO (for onboard IDE 2nd channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

IDE Secondary Master PIO (for onboard IDE 1st channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

IDE Secondary Slave PIO (for onboard IDE 2nd channel)

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Mode 0~4	Manually set the IDE Accessing mode.

IDE Primary Master UDMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

IDE Primary Slave UDMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

IDE Secondary Master UDMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

IDE Secondary Slave UDMA

Auto (default)	BIOS will automatically detect the IDE HDD Accessing mode.
Disabled	Disabled.

USB Controller

Enabled (default)	Enabled USB Controller.
Disabled	Disabled USB Controller.

USB Mouse Support

Enabled (default)	Enabled USB Mouse Support.
Disabled	Disabled USB Mouse Support.

USB Keyboard Support

Enabled (default)	Enabled USB Keyboard Support.
Disabled	Disabled USB Keyboard Support.

Init Display First

PCI Slot (default)	Set Init Display First to PCI Slot.
---------------------------	-------------------------------------

Onboard AGP	Set Init Display First to onboard AGP.
AC 97 Audio	
Auto (default)	BIOS will automatically detect onboard Audio.
Disabled	Disabled.
AC 97 Modem	
Auto (default)	BIOS will automatically detect onboard Modem.
Disabled	Disabled.
IDE HDD Block Mode	
Enabled (default)	Enabled.
Disabled	Disabled.
Power On Function	
Password	Enter from 1 to 7 characters to set the Keyboard Power On Password.
Hot Key	Hot Key.
Mouse Left	Mouse Left.
Mouse Right	Mouse Right.
Any Key	Any Key.
Button Only	Button Only.
Keyboard 98	If your keyboard has an Owner key button, you can press the key to power on your system.
KB Power On Password	
Enter	Enter from 1 to 7 characters to set the keyboard Power On Password.

Hot Key Power On	First you must choose the
Ctrl-F1	Power On by Hot Key function
Ctrl-F2	then Enter from 1 to 8
Ctrl-F3	characters to set the Hot Key
Ctrl-F4	Power On your system.
Ctrl-F5	
Ctrl-F6	
Ctrl-F7	
Ctrl-F8	

Onboard FDC Controller

Enabled (default)	Enabled onboard FDC Controller.
Disabled	Disabled onboard FDC Controller.

Onboard Serial Port1/Port2

Select an address and corresponding interrupt for the first and second serial ports.

The Choices: **Disabled**, Auto, (3F8/IRQ4), (2F8/IRQ3), (3E8/IRQ4), (2E8/IRQ3).

UART Mode Select

This item allows you to select which Infra Red(IR) function of the onboard I/O chip you wish to use.

The Choices: **Normal**(default), IrDA, SCR, ASKIR.

UR2 Duplex Mode

This item allows you to select the Infra Red(IR) function of the onboard I/O chip you wish to use.

The Choices: **Half** (default), Full.

Onboard Parallel Port

This item allows you to select the I/O address with which to access the onboard parallel port controller.

Disabled.

378/IRQ7. (default)

278/IRQ5.

3BC/IRQ7.

PWRON After PWR-Fail

This option will determine how the system will power on after a power failure.

The Choices: Off(default), On.

Parallel Port Mode

SPP (default)	Using Parallel port as Standard Parallel Port.
EPP	Using Parallel port as Enhanced Parallel Port.
ECP	Using Parallel port as Extended Capabilities Port.
ECP/EPP	Using Parallel port as ECP/EPP mode.

Game Port Address

201 (default)	Set onboard game port to 201.
209	Set onboard game port to 209.
Disabled	Disabled.

Midi Port Address

300	Set Midi Port address to 300.
330 (default)	Set Midi Port address to 330.

Midi Port IRQ

10 (default)	Set Midi Port IRQ to 10.
5	Set Midi Port IRQ to 5.

2.6 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.

© Figure 6. Power Management Setup

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Power Management Setup

ACPI Function	Enabled	Item Help
ACPI Suspend Type	S1(POS)	
Power Management	User Define	Menu Level
Video Off Method	DPMS	
Video Off In Suspend	Yes	
Suspend Type	Stop Grant	
Modem Use IRQ	3	
Suspend Mode	Disabled	
HDD Power Down	Disabled	
Soft-Off by PWR-BTN	Instant-Off	
Wake Up by PCI Card	Disabled	
Power On by Ring	Enabled	
USB KB Wake-Up From S3	Disabled	
PWRON After PWR-Fail	Off	
CPU Thermal-Throttling	50.0%	
Resume by Alarm	Disabled	
Data (of Month) Alarm	0	
Time (of hh:mm:ss) Alarm	0 0 0	
**Reload Global Timer Events **		
Primary IDE 0	Disabled	
Primary IDE 1	Disabled	
Secondary IDE 0	Disabled	
Secondary IDE 1	Disabled	
FDD,COM,LPT Port	Disabled	
PCI PIRQ[A-D]#	Disabled	

←→↑↓: 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 display status of the Advanced Configuration and Power Management (ACPI).

ACPI Suspend Type

The item allows you to select the suspend type under ACPI operating system.

S1(POS) (default) Power on Suspend.

S3(STR) Suspend to RAM.

Power Management

This option 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.

The Choices: User Define (default), Min Saving, Max Saving.

Video Off In Suspend

This field determines when to activate the video off feature for monitor power management.

The Choices: Yes(default), No

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.

Suspend Type

Stop Grant (default) Set Suspend type is stop grant.

PwrOn Suspend Set Suspend type is Power on Suspend.

Suspend Mode

The Suspend Mode fields set the Period of time after each of these modes activates. At Max Saving, these modes activate sequentially (in the given order) after one minute; at Min Saving after one hour.

The Choices: Disabled(default), 1 min - 1 Hour.

HDD Power Down

By default, this is “Disabled”, meaning that no matter the mode of the rest of the system, the hard drive will remain ready. Otherwise, you have a range of choices from 1 to 15 minutes or Suspend. This means that you can select to have your hard disk drive be turned off after a selected number of minutes or when the rest of the system goes into a suspend mode.

The Choices: **Disabled**(default), 1 - 15 mins.

Modem Use IRQ

This determines the IRQ, which can be applied in Modem use.

3 (default)

4/5/7/9/10/11/NA.

Soft-Off by PWRBTN

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state when the system has “hung”.

The Choices: **Instant-Off**(default), Delay 4 Sec.

Wake-Up by PCI card

Enabled	Enabled.
Disabled (default)	Disabled.

Power on by Ring

Enabled (default)	Enabled.
Disabled	Disabled.

USB KB Wake Up From S3

Disabled (default)	Disabled.
Enabled	Enabled.

CPU Thermal-Throttling**50.0% (default)****Monitor CPU Temp. will cause system to slow down****CPU Duty Cycle to 12.5% / 25.0% / 37.5% / 62.5% /
70.5% / 87.5%****Resume by Alarm****Disabled (default)**

Disabled.

Enabled

Enabled.

Primary IDE 0/1**Disabled (default)**

Disabled.

EnabledEnabled monitor Primary IDE
0/1 for Green event.**Secondary IDE 0/1****Disabled (default)**

Disabled.

EnabledEnabled monitor Secondary
IDE 0/1 for Green event.**FDD,COM,LPT Port****Disabled (default)**

Disabled.

EnabledEnabled monitor FDD, COM,
LPT Port.**PCI PIRQ[A-D]#****Disabled (default)**

Ignore PCI PIRQ[A-D]#

Active.

Enabled

Monitor PCI PIRQ[A-D]#

Active.

PWRON After PWR-Fail**The Choices: Off(default), On.**

2.7 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 of the CPU itself when communicating with its own special components. This section covers some very technical items and it is strongly recommended that only experienced users make any changes to the default settings.

© Figure 7. PnP/PCI Configurations

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PnP/PCI Configurations

PnP OS Installed	No	Item Help
Reset Configuration Data	Disabled	
Resources Controlled By	Auto(ESCD)	Menu Level
IRQ Resources	Press Enter	
PCI/VGA Palette Snoop	Disabled	When resources are controlled manually, assign each system interrupt a type, depending on the type of device using the interrupt

←→↑↓: 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. When set to No, BIOS will initialize all the PnP cards . Therefore for non-PnP operating system (DOS, Netware), this option must be set to No.

Reset Configuration Data

The system BIOS supports the PnP feature so the system needs to record which resource is assigned and proceeds resources from conflict. Every peripheral device has a node, which is called ESCD. This node records which resources are assigned to it. The system needs to record and update ESCD to the memory locations. These locations (4K) are reserved at the system BIOS. If Disabled (Default) is chosen, the system's ESCD will update only when the new configuration varies from the last one. If Enabled is chosen, the system is forced to update ESCDs and then is automatically set to the "Disabled" mode.

IRQ3	assigned to:PCI/ISA PnP
IRQ4	assigned to:PCI/ISA PnP
IRQ5	assigned to:PCI/ISA PnP
IRQ6	assigned to:PCI/ISA PnP
IRQ7	assigned to:PCI/ISA PnP
IRQ8	assigned to:PCI/ISA PnP
IRQ9	assigned to:PCI/ISA PnP
IRQ10	assigned to:PCI/ISA PnP
IRQ11	assigned to:PCI/ISA PnP
IRQ12	assigned to:PCI/ISA PnP
IRQ13	assigned to:PCI/ISA PnP
IRQ14	assigned to:PCI/ISA PnP
IRQ15	assigned to:PCI/ISA PnP
DMA-0	assigned to:PCI/ISA PnP
DMA-1	assigned to:PCI/ISA PnP
DMA-2	assigned to:PCI/ISA PnP
DMA-3	assigned to:PCI/ISA PnP
DMA-4	assigned to:PCI/ISA PnP
DMA-5	assigned to:PCI/ISA PnP
DMA-6	assigned to:PCI/ISA PnP
DMA-7	assigned to:PCI/ISA PnP

The above settings will be shown on the screen only if “Manual” is chosen for the resources controlled by function.

Legacy is the term which signifies that a resource is assigned to the ISA Bus and provides for non-PnP ISA add-on cards. PCI/ISA PnP signifies that a resource is assigned to the PCI Bus or provides for ISA PnP add-on cards and peripherals.

Resources Controlled By

By Choosing “Auto” (default), the system BIOS will detect the system resources and automatically assign the relative IRQ and DMA channel for each peripheral. By Choosing “Manual”, the user will need to assign IRQ & DMA for add-on cards. Be sure that there are no IRQ/DMA and I/O port conflicts.

IRQ Resources

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

PCI / VGA Palette Snoop

Choose Disabled or Enabled. Some graphic controllers which are not VGA compatible take the output from a VGA controller and map it to their display as a way to provide boot information and VGA compatibility.

However, the color information coming from the VGA controller is drawn from the palette table inside the VGA controller to generate the proper colors, and the graphic controller needs to know what is in the palette of the VGA controller. To do this, the non-VGA graphic controller watches for the write access to the VGA palette and registers the snoop data. In PCI based systems, the Write Access to the palette will not show up on the ISA bus if the PCI VGA controller responds to the Write.

In this case, the PCI VGA controller should not respond to the Write, it should only snoop the data and permit the access to be forwarded to the ISA bus. The non-VGA ISA graphic controller can then snoop the data on the ISA bus. Unless you have the above situation, you should disable this option.

Disabled (default)	Function disabled.
Enabled	Function enabled.

2.8 PC Health Status

© Figure 8. PC Health Status

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PC Health Status

CPU Warning Temperature	Disabled	Item Help
Current System Temp.	39°C / 102 °F	Menu Level
Current CPU Temperature	44°C / 111 °F	
Current CPU Fan1 Speed	0PRM	
Current CPU Fan2 Speed	5578PRM	
Current CPU Fan3 Speed		
IN0(V)	1.61V	
IN1(V)	1.82V	
IN2(V)	3.31V	
+5V	4.99V	
+12V	11.91V	
-12V	-12.11V	
-5V	-5.75V	
VBAT(V)	3.05V	
5VSB(V)	4.75V	
Shut down Temperature	Disabled	

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

Current Voltage(V) Vcore /+12V/+5V/5VSB/VBAT

Detect system's voltage status automatically.

Current CPU/System Temperature(°C / °F)

This field displays the current CPU/System temperature, if your computer contains a monitoring system.

Current CPU Fan1/Fan2/Fan3 Speed

This field displays the current speed of the System Fans, if your computer contains a monitoring system.

CPU Warning Temperature(°C)

Disabled(default)	Disabled.
60°C / 140°F	Monitor CPU Temp.at 60°C / 140°F.
50°C / 122°F	Monitor CPU Temp.at 50°C / 122°F.
53°C / 127°F	Monitor CPU Temp.at 53°C / 127°F.
56°C / 133°F	Monitor CPU Temp.at 56°C / 133°F.
63°C / 145°F	Monitor CPU Temp.at 63°C / 145°F.
66°C / 151°F	Monitor CPU Temp.at 66°C / 151°F.
70°C / 158°F	Monitor CPU Temp.at 70°C / 158°F.

Shutdown Temperature(°C / °F)

Disabled(default)	Disabled.
60°C / 140°F	Monitor CPU Temp.at 60°C / 140°F, if Temp.>60°C / 140°F system will automatically power off.
65°C / 149°F	Monitor CPU Temp.at 65°C / 149°F, if Temp.>65°C / 149°F system will automatically power off.
70°C / 158°F	Monitor CPU Temp.at 70°C / 158°F, if Temp.>70°C / 158°F system will automatically power off.
75°C / 167°F	Monitor CPU Temp.at 75°C / 167°F, if Temp.>75°C / 167°F system will automatically power off.

2.9 Frequency / Voltage Control

© Figure 9. Frequency / Voltage Control

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Frequency / Voltage Control

Auto Detect DIMM / PCI CLK	Disabled	Item Help
Spread Spectrum Modulated	Disabled	
CPU Host/PCI Clock	66~166	Menu Level
CPU Clock Ratio	X7	

←→↑↓: 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.

The Choices: Disabled(default), Enabled.

CPU Host/PCI Clock

This item allows you to select CPU Host Clock .

The Choices: 66~166MHz(default).

you can key in DEC number.

CPU Clock Ratio

This option will not be shown if you are using a CPU with the locked ratio.

X3/X3.5/X4/X4.5/X5/X5.5/X6/X6.5/X7/X7.5/X8/X8.5/
 9X/9.5X/10X/10.5X/11X/11.5X/12X.

Spread Spectrum Modulated

This function is designed to EMI test only.

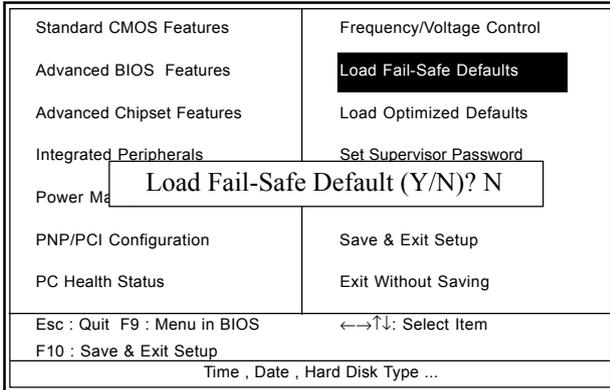
The Choices: Disabled(default), Enabled.

2.10 Load Fail-Safe Defaults

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

© **Figure 10. Load Fail-Safe Defaults**

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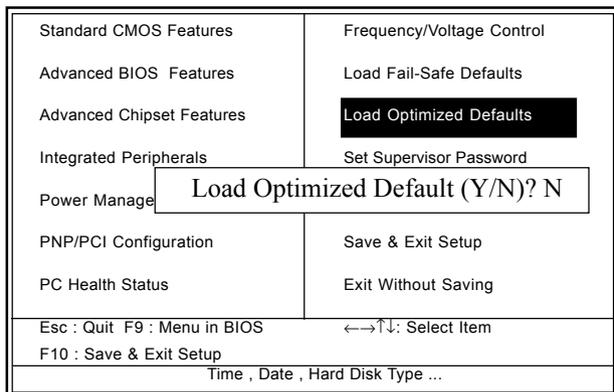
Pressing ‘Y’ loads the default values that are factory settings for optimal performance of system operations.

2.11 Load Optimized Defaults

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

© **Figure 11. Load Optimized Defaults**

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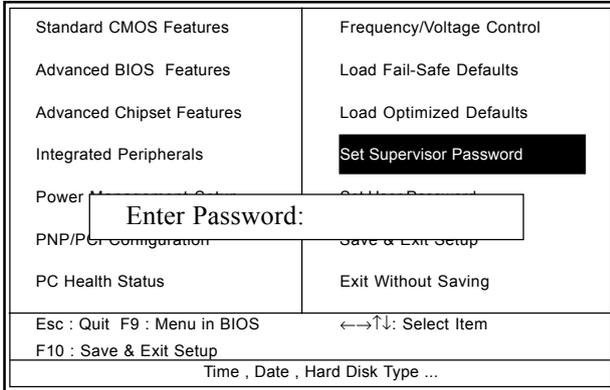


Pressing ‘Y’ loads the default values that are factory settings for optimal performance of system operations.

2.12 Set Supervisor / User Password

© Figure 12. Set Supervisor / User Password

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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 a password, up to eight characters, and press <Enter>. The password you type 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 the password, just press <Enter> when you are prompted to enter a password. A message will confirm that you wish to disable the password. Once the password is disabled, the system will boot and you can enter setup freely.

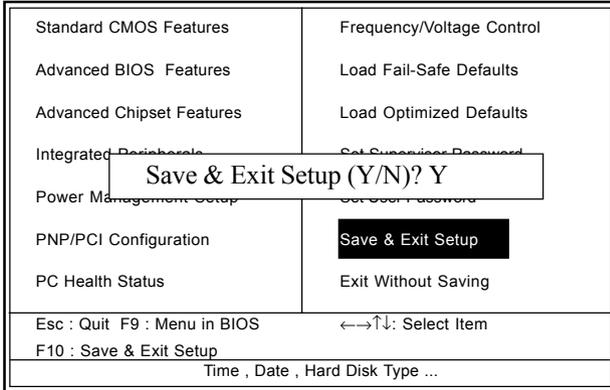
Password Disabled

If you select “System” at the Security Option of BIOS Features Setup Menu, you will be prompted for the password every time when the system is rebooted, or any time when you try to enter Setup. If you select “Setup” at the Security Option of BIOS Features Setup Menu, you will be prompted only when you try to enter Setup.

2.13 Save & Exit Setup

© Figure 13. Save & Exit Setup

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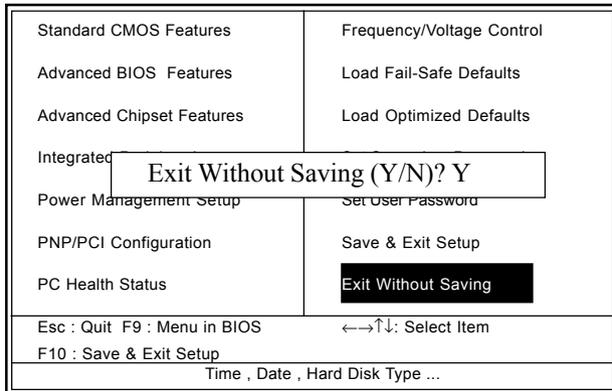
Typing “Y” will quit the Setup Utility and save the user setup value to RTC CMOS RAM.

Typing “N” will return to the Setup Utility.

2.14 Exit Without Saving

© Figure 14. Exit Without Saving

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Typing “Y” will quit the Setup Utility without saving to RTC CMOS RAM.

Typing “N” will return to the Setup Utility.

Date : / /

Warranty Card/Technical Fault Report

M/B Model No.: _____

Vender

Serial No. : _____

Date of Purchase: _____

Hardware Configuration Used :

--

CPU	
RAM (Brand,MB)	
Video Card	
Hard Drive	
Other Card	

Diagnostic Software Used :

--

Fault Description :

--