

Chapter 4

4

Award BIOS Setup

Introduction

This chapter discusses the Award Setup program built into the ROM BIOS. The Setup program allows 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. 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 supports 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.

APM Support

These 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.

PCI Bus Support

This AWARD BIOS also supports Version 2.1 of the Intel specification.

DRAM Support

SDRAM (Synchronous DRAM) are supported.

Support CPU

This AWARD BIOS supports the Intel Celeron/Coppermine PII/PIII Processor.

Using Setup

In general, you 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 table provides more detail about how to navigate in the Setup program by using the keyboard.

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

4.1 Main Menu

Once you enter AWARD BIOS CMOS Set up Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup function. Use the arrow keys to select among the items and press<Enter> to accept and enter the sub-menu.

“WARNING”

The information about BIOS defaults on manual (Figure 1,2,3,4,5,6,7,8,9,10,11,12,13)is just for reference,please refer to the BIOS installed on the board for update information.

© **Figure 1. Main Menu**

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Software

Standard CMOS Setup	Load Fail-Safe Defaults
Advanced BIOS Setup	Load Optimized Defaults
Advanced Chipset Setup	Set Supervisor Password
Integrated Peripherals	Set User Password
Power Management Setup	Save & Exit Setup
PNP/PCI Configuration	Exit Without Saving
Frequency/Voltage Control	
Esc : Quit F9 : Menu in BIOS ←→↑↓: Select Item	
F10 : Save & Exit Setup	
Time , Date , Hard Disk Type ...	

Standard CMOS Features

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

Advanced BIOS Features

This setup page includes all the item of BIOS special enhanced features.

Advanced Chipset Features

This setup page includes all the item of Chipset special enhanced features.

Integrated Peripherals

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

Power Management Setup

This setup page includes all the item of power management features.

PnP/PCI Configuration

This setup page includes IRQ Setting by user define or default.

Frequency / Voltage Control

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

Load Fail-Safed Defaults

Use this menu 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 Supervisor Password

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

Set User Password

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 retype the password when prompted.

Save & Exit Setup

Save CMOS value changes to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

4.2 Standard CMOS Features

This item in 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 Setup

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

Date(mm:dd:yy)	Tue,Jun 6 2000	Item Help
Time (hh:mm:ss)	11:26:10	Menu Level
IDE Primary Master	Press Enter None	Change the day, month,year and century.
IDE Primary Slave	Press Enter None	
IDE Secondary Master	Press Enter None	
IDE Secondary Master	Press Enter None	
Drive A	1.44M,3.5 in	
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	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.

4.3 Advanced BIOS Setup

© Figure 3. Advanced BIOS Setup

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Software advanced BIOS Setup

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

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 attempt to write data into this area, BIOS will show a warning message on screen and alarm beep.

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:Disabled(default),Enabled.

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 seeds 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

These 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 Seek

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

The Choices:Enabled,Disabled(default).

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 state 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 defined if the correct password is not entered in prompt.

Setup(default)

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

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.

4.4 Advanced Chipset Setup

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 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 Setup

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

SDRAM CAS Latency/Time	3	Item Help
SDRAM Cycle Time Tras/Trc	6/8	
SDRAM RAS -to- CAS Delay	3	Menu Level
SDRAM RAS Precharge Time	3	
System BIOS Cacheable	Enabled	
Video BIOS Cacheable	Enabled	
CPU Latency Time	Disabled	
Delayed Transaction	Disabled	
On-Chip Video Window Size	64MB	
Onboard Display Cache Setting		
CAS# Latency	3	
Paging Mode Control	Open	
RAS-TO-CAS Overrido	by CAS#LT	
RAS# Timing	Fast	
RAS# Precharge Timing	Fast	

←→↑↓: 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****6/8(default)**Set SDRAM Tras/Trc Cycle
time in 6/8 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****Enabled(default)**Enable System BIOS
Cacheable.**Disabled**Disable System BIOS
Cacheable.**Video BIOS Cacheable****Enabled(default)**

Enable Video BIOS Cacheable.

DisabledDisable Video BIOS
Cacheable.

CPU Latency Time**Enabled**

Enabled.

Disabled(default)

Disabled.

Delayed Transaction**Enabled**

Slow speed ISA device in system.

Disabled(default)

Disabled.

On-Chip Video Window Size**64MB(default)**

Set Graphics Aperture Size to 64 MB.

32MB

Set Graphics Aperture Size to 32 MB.

CAS# Latency**The Choices:3(default),2.****RAS# Timing****The Choices:Fast(default),Normal.**

4.5 Integrated Peripherals

© Figure 5. Integrated Peripherals

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Software 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 Keyboard Support	Disabled	
Init Display First	PCI Solt	
AC97 Audio	Auto	
AC97 Modem	Auto	
IDE HDD Block Mode	Enabled	
Power On Function	Button Only	
Onboard FDC Controller	Enabled	
Onboard Serial Port 1	Auto	
Onboard Serial Port 2	Auto	
UART Mode Select	Normal	
UR2 Duplex Mode	Half	
TxD,RxD Polarity	Lo,Hi	
Use IR Pins	IR-Rx2Tx2	
Onboard Paraller Port	378/IRQ7	
Parallel Port Mode	ECP+EPP1.7	
ECP Mode Use DMA	3	
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 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.

IDE HDD Block Mode**Enabled(default)**

Enabled.

Disabled

Disabled.

Power On by 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 have owner key button,you can press the key to power on your system.

AC 97 Modem

Auto(default)

BIOS will automatically detect onboard Modem.

Disabled

Disabled.

Onboard FDC Controller

Enabled(default)

Enabled onboard FDC Controller.

Disabled

Disabled onboard FDC Controller.

Onboard Serial Port1/Port2

Selecting address and corresponding interrupt for the first and second serial ports.

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

UART Mode Select

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

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

UR2 Duplex Mode

This item allows you decide which Infra Red(IR) function of the onboard I/O chip.

The Choices:Half (default),Full.

Onboard Parallel Port

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

Disabled.

378/IRQ7(default).

278/IRQ5.

3BC/IRQ7.

Parallel Port Mode

SPP

Using Parallel port as Standard Parallel Port.

EPP

Using Parallel port as Extended Parallel Port.

ECP

Using Parallel port as Extended Capabilities Port.

ECP+EPP(default)

Using Parallel port as ECP+EPP mode.

Game Port Address

201(default)

Set onboard game port is 201.

209

Set onboard game port is 209.

Disabled

Disabled.

Midi Port Address

Disabled

Disabled On Board IDE.

300

Set Midi game address is 300.

330(default)

Set Midi game address is 330.

Midi Port IRQ

10(default)

Set Midi game IRQ 10.

5

Set Midi game IRQ 5.

4.6 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

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

ACPI Function	Enabled	Item Help
ACPI Suspend Type	S1(POS)	Menu Level
Power Management	User Define	
Video Off Method	DPMS	
Video Off In Suspend	Yes	
Suspend Type	Stop Grant	
Modem Use IRQ	4	
Suspend Mode	Disabled	
HDD Power Down	Disabled	
Soft-Off by PWR-BTTN	Instant-Off	
Power On by Ring	Enabled	
USB KB Wake-up From S3	Disabled	
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	Enabled	
PCI PIRQ[A-D]#	Enabled	

←→↑↓: 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 category allows you to select the type (or degree) of power saving and is directly related to the following modes.

- 1.HDD Power Down.
- 2.Doze Mode.
- 3.Suspend Mode.

If you highlight the literal “Press Enter” next to the “Power Management” label and then press the enter key, it will take you a submenu with the following options:

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.

HDD Power Down

By default,this is “Disabled”, meaning that no matter the mode the rest of 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 or the system goes into a suspend mode.

Disabled(default).

Doze Mode/Suspend Mode

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

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.

Modem Use IRQ

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

4(default)

3/5/7/9/10/11/NA

Suspend Mode

Disabled(default)

Disabled.

1 min - 1 Hour

Set the timer to enter Suspend Mode.

HDD Power Down

Disabled(default)

Disabled.

1 - 15 mins

Enabled.

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.

Power On by Ring

Enabled(default)	Enabled.
Disabled	Disabled.

USB KB Wake-up From S3

Disabled(default)	Disabled.
Enabled	Enabled.

Resume by Alarm

Disabled(default)	Disabled.
Enabled	Enabled.

Primary IDE 0/1

Disabled(default)	Disabled.
Enabled	Enabled monitor Primary IDE 0/1 for Green event.

Secondary IDE 0/1

Disabled(default)	Disabled.
Enabled	Enabled monitor Secondary IDE 0/1 for Green event.

FDD,COM,LPT Port

Disabled	Disabled.
Enabled(default)	Enabled monitor FDD,COM, LPT Port.

PCI PIRQ[A-D]#

Disabled	Ignore PCI PIRQ[A-D]# Active.
Enabled(default)	Monitor PCI PIRQ[A-D]# Active.

4.7 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 uses when communicating with its own special components. This section covers some very technical items and it is strongly recommended that only experienced user should make any changes to the default settings.

© Figure 7. PnP/PCI Configurations

CMOS Setup Utility-Copyright(C) 1984-2000 Award
Software PnP/PCI Configurations

Reset Configuration Data	Disabled	Item Help
Resources Controlled By IRQ Resources	Auto(ESCD) Press Enter	Menu Level
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

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 no IRQ/DMA and I/O port conflicts.

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.

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, where the bus, 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 forward 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)

Disabled the function.

Enabled

Enabled the function.

4.8 Frequency / Voltage Control

© Figure 8. Frequency / Voltage Control

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

Software Frequency / Voltage Control

Auto Detect DIMM / PCI CLK	Disabled	Item Help
Spread Spectrum	Default	
CPU Clock Ratio	X3.5	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

Auto Detect DIMM / PCI CLK

This item allows you to enable/disable auto detect DIMM / PCI CLOCK.

The Choices:Disabled(default),Enabled.

Spread Spectrum

Default(default)

0.25%

Set Spread Spec. to 0.25%.
(Center spread)

0.5%

Set Spread Spec. to 0.5%.
(Down spread)

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

4.9 Load Fail-Safe Defaults

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

© Figure 9. Load Fail-Safe Defaults

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

Standard CMOS Setup	Load Fail-Safe Defaults
Advanced BIOS Setup	Load Optimized Defaults
Advanced Chipset Setup	Set Supervisor Password
Integrated Peripherals	Set User Password
Power	Load Fail-Safe Default (Y/N)? N
PNP/PCI Configuration	Exit Without Saving
Frequency/Voltage Control	
Esc : Quit F9 : Menu in BIOS ←→↑↓: Select Item	
F10 : Save & Exit Setup	
Time , Date , Hard Disk Type ...	

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

4.10 Load Optimized Defaults

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

© Figure 10. Load Optimized Defaults

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

Standard CMOS Setup	Load Fail-Safe Defaults
Advanced BIOS Setup	Load Optimized Defaults
Advanced Chipset Setup	Set Supervisor Password
Integrated Peripherals	
Power Management Setup	Save & Exit Setup
PNP/PCI Configuration	Exit Without Saving
Frequency/Voltage Control	
Esc : Quit F9 : Menu in BIOS ←→↑↓: Select Item	
F10 : Save & Exit Setup	
Time , Date , Hard Disk Type ...	

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

4.11 Set Supervisor / User Password

© Figure 11. Set Supervisor / User Password

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

Standard CMOS Setup	Load Fail-Safe Defaults
Advanced BIOS Setup	Load Optimized Defaults
Advanced Chipset Setup	Set Supervisor Password
Integrated Peripherals	Set User Password
Power	Enter Password:
PNP/PCI Configuration	Exit Without Saving
Frequency/Voltage Control	
Esc : Quit F9 : Menu in BIOS ←→↑↓: Select Item	
F10 : Save & Exit Setup	
Time , Date , Hard Disk Type ...	

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, 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 password, just press <Enter> when you are prompted to enter 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 Security Option of BIOS Features Setup Menu, you will be prompted only when you try to enter Setup.

4.12 Save & Exit Setup

© Figure 12. Save & Exit Setup

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Software

Standard CMOS Setup	Load Fail-Safe Defaults
Advanced BIOS Setup	Load Optimized Defaults
Advanced Chipset Setup	Set Supervisor Password
Integrated Peripherals	Save & Exit Setup (Y/N)? Y
Power Management Setup	Save & Exit Setup
PNP/PCI Configuration	Exit Without Saving
Frequency/Voltage Control	
Esc : Quit F9 : Menu in BIOS ←→↑↓: Select Item	
F10 : Save & Exit Setup	
Time , Date , Hard Disk Type ...	

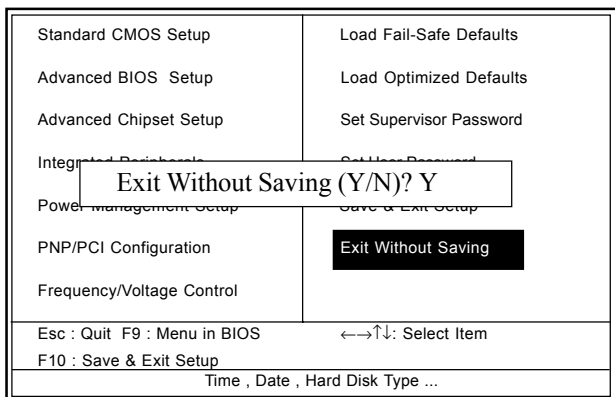
Type “Y” will quit the Setup Utility and save the user setup value to RTC CMOS RAM.

Type “N” will return Setup Utility.

4.13 Exit Without Saving

© Figure 13. Exit Without Saving

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

Type “N” will return Setup Utility.

Date : / /

Guarantee Sheet/Technical Fault Report

M/B Model No.: _____ Vender

Serial No. : _____

Date of Purchasing: _____

Hardware Configuration Used :

CPU	
RAM	
Video Card	
Hard Drive	
Other Card	

Diagnostic Software Used

--

Fault Description

--

Technical Support :

WWW : www.acorp.com.tw

FAE : fae@acorp.com.tw