

Chapter 4

BIOS SETUP

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

The BIOS ROM of the system stores the Setup utility. When you turn on the computer, the system lets you run this program. This appears during the Power-On-Self-Test (POST). Press the <**Delete**> key to call up the Setup utility. If you are a little bit late pressing the mentioned key(s), POST will continue with its test routines, thus preventing you from calling up Setup. If you still need to call Setup, reset the system by simultaneously pressing the <**Ctrl**>, <**Alt**> and <**Delete**> keys, or by pushing the Reset button on the system case.

Main CMOS Setup

When you run Setup, the CMOS SETUP UTILITY main program screen will appear with the following options:

ROM PCI/ISA BIOS (2A69JF09) CMOS SETUP UTILITY AWARD SOFTWARE, INC.	
STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS FEATURES SETUP	SUPERVISOR PASSWORD
CHIPSET FEATURES SETUP	USER PASSWORD
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION
PNP/PCI CONFIGURATION	SAVE & EXIT SETUP
LOAD BIOS DEFAULTS	EXIT WITHOUT SAVING
LOAD SETUP DEFAULTS	
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift)F2 : Change Color

A section at the bottom of the above screen displays the control keys for this screen. Take note of these keys and their respective uses. Another section just below the control keys section displays information on the currently highlighted item in the list.

Load Defaults

The “Load BIOS Defaults” option loads the minimized settings for troubleshooting. “Load Setup Defaults” on the other hand, is for loading optimized defaults for regular use. Choosing defaults at this level will modify all applicable settings.

Standard CMOS Setup

The “Standard CMOS Setup” option allows you to record some basic system hardware configuration and set the system clock and error handling. If the mainboard is already installed in a working system, you will not need to select this option anymore. However, if the configuration stored in the CMOS memory on the mainboard gets lost or damaged, or if you change the system hardware configuration, you will need to re-specify the configuration values. The configuration values usually get lost or corrupted when the power of the onboard CMOS battery weakens.

ROM PCI/ISA BIOS (2A69JF09)								
STANDARD CMOS SETUP								
AWARD SOFTWARE, INC.								
Date (mm:dd:yy) : Fri, Aug 21 1998								
Time (hh:mm:ss) : 10 : 49 : 14								
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master	: Auto	0	0	0	0	0	0	AUTO
Drive A : 1.44M, 3.5 in.								
Floppy 3 Mode Support : Disabled								
Video : EGA/VGA								
Halt On : All Errors								
				Base Memory: 0K				
				Extended Memory: 0K				
				Other Memory: 512K				
				Total Memory: 512K				
ESC : Quit		↑ ↓ → ← : Select Item		PU/PD/+/- : Modify				
F1 : Help		(Shift)F2 : Change Color						

The above screen provides you with a list of options. At the bottom are the control keys for this screen. Take note of these keys and their respective uses. User-configurable fields appear in a different color. If you need information on the selected field, press the <F1> key. The help menu will then appear to provide you with the information you need. The memory display at the lower right-hand side of the screen is read-only and automatically adjusts accordingly.

Date

To set the date, highlight the “Date” field and then press the page up/page down or +/- keys to set the current date. Follow the month, day and year format. Valid values for month, day and year are: Month: (1 to 12), Day: (1 to 31), Year: (up to 2079).

Time

To set the time, highlight the “Time” field and then press the page up/page down or +/- keys to set the current time. Follow the hour, minute and second format. Valid values for hour, minute and second are: Hour: (00 to 23), Minute: (00 to 59), Second: (00 to 59) time, just press the <Enter> key twice if you do not want to modify the current time.



To bypass the date and time prompts, create an AUTOEXEC.BAT file. For information on how to create this file, refer to the MS-DOS manual.

Hard Disk Drive

This field records the specifications for all non-SCSI hard drives installed in the system. The onboard PCI IDE connectors only provides a Primary channel for connecting to one IDE hard disk.

For IDE hard disk drive setup, you can:

- Use the Auto setting for detection during bootup.
- Use the IDE HDD AUTO DETECTION in the main menu to automatically enter the drive specifications.
- Enter the specifications yourself manually by using the “User” option.

The entries for specifying the hard disk type include CYLS (number of cylinders), HEAD (number of read/write heads), PRECOMP (write precompensation), LANDZ (landing zone), SECTOR (number of sectors) and MODE. The SIZE field automatically adjusts according to the configuration you specify. The documentation that comes with the hard disk should provide you with the information regarding the drive specifications.

The MODE entry is for IDE hard disks only, and can be ignored for MFM and ESDI drives. This entry provides four options: *Normal*, *Large*, *LBA*, or *Auto*. Set MODE to *Normal* for IDE hard disk drives smaller than 528MB; set it to *LBA* for drives over 528MB that support Logical Block Addressing (LBA) to allow larger IDE hard disks; set it to *Large* for drives over 528MB that do not support LBA. *Large* type of drive can only be used with MS-DOS and is very uncommon. Most IDE drives over 528MB support the *LBA* mode.

Auto Detection of Hard Disks on Bootup

For the Primary Master field, you can select *Auto* under the TYPE and MODE fields. This will enable auto detection of your IDE drive during Bootup. This will allow you to change the hard drive (with the power off) and then power on without having to reconfigure the hard drive type. If you use an older hard drive which do not support this feature, then you must configure the hard drive in the standard method as described above by the “User” option.



After the IDE hard disk information has been entered into BIOS, new IDE hard disks must be partitioned (such as with FDISK) and then formatted before data can be read from and written on. Primary IDE hard drives must have its partition set to active (also possible with FDISK).

Drive A

This field records the type of floppy drive installed in the system. The available options for drive A are: *1.44MB, 3.5 in.* (default for Drive A); *360KB, 5.25 in.*; *1.2MB, 5.25 in.*; *720KB, 3.5 in.*; *None*; *2.88MB, 3.5 in.* To enter the configuration value for a particular drive, highlight its corresponding field and then select the drive type using the left- or right-arrow key.

Floppy 3 Mode Support

This is the Japanese standard floppy drive. The standard stores 1.2MB in a 3.5inch diskette. This is normally disabled but you may choose from either: *Disabled* (default); *Drive A*.

Video

Stay with the default value of *EGA/VGA*. The options are: *EGA/VGA* (default); *Mono* (for Hercules or MDA); *CGA 40*; and *CGA 80*.

Halt On

This field determines which types of errors will cause the system to halt. Choose from *All Errors* (default); *No Errors*; *All, But Keyboard*; *All, But Diskette*; and *All, But Disk/Key*.

BIOS Features Setup

The “BIOS Features Setup” option consists of configuration entries that allow you to improve the system performance, or lets you set up some system features according to your preference. Some entries here are required by the mainboard’s design to remain in their default settings.

ROM PCI/ISA BIOS (2A69JF09) BIOS FEATURES SETUP AWARD SOFTWARE, INC.	
Virus Warning : Disabled	Video BIOS Shadow : Enabled
CPU Internal Cache : Enabled	
External Cache : Enabled	
Quick Power On Self Test : Enabled	
Boot From LAN First : Disabled	
Boot Sequence : A,CDROM,C	
Boot Up Floppy Seek : Enabled	
Boot Up NumLock Status : On	
Security Option : Setup	
PS/2 mouse function control: Enabled	
OS Select For DRAM > 64MB : Non-OS2	
ESC : Quit ← : Select Item F1 : Help → : Modify F5 : Old Values (Shift)F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

A section at the lower right of the screen displays the control keys you can use. Take note of these keys and their respective uses. If you need information on a particular entry, highlight it and press the <F1> key. A pop-up help menu will appear to provide you with the information you need. <F5> loads the last set values, <F6> and <F7> loads the BIOS default values and Setup default values, respectively.

Virus Warning

This field protects the boot sector and partition table of the hard disk against accidental modifications. Any attempt to write to them will cause the system to halt and display a warning message. If this occurs, you can either allow the operation to continue or use a bootable virus-free floppy disk to reboot and investigate the system. This setting is recommended because of conflicts with new operating systems. Installation of new operating systems require that you disable this to prevent write errors. The options are: *Disabled* (default); *Enabled*.

CPU Internal Cache

When enabled, improves system performance. Disable this item when testing or troubleshooting. The options are: *Enabled* (default); *Disabled*.

External Cache

When enabled, supports an optional cache SRAM. The options are: *Enabled* (default); *Disabled*.

Quick Power On Self Test

When enabled, allows the BIOS to bypass the extensive memory test. The options are: *Enabled* (default); *Disabled*.

Boot From LAN First

This field allows the system to first look for an operating system at the LAN (Local Area Network) if you have a pre-boot LAN card installed in your system that is connected to a network server which supports this function. The options are: *Enabled* (default); *Disabled*.

Boot Sequence

Allows the system BIOS to first try to boot the operating system from the selected disk drive. The options are: *A, CDROM, C* (default); *CDROM, C, A; C only; A C; C, A*.

Boot Up Floppy Seek

When enabled, assigns the BIOS to perform floppy diskette drive tests by issuing the time-consuming seek commands. The options are: *Enabled* (default); *Disabled*.

Boot Up Numlock Status

When set to *On*, allows the BIOS to automatically enable the NumLock Function when the system boots up. The options are: *On* (default); *Off*.

Security Option

Allows you to set the security level of the system. The options are: *Setup* (default); *System*.

PS/2 Mouse Function Control

This item allows the PS/2 mouse to have exclusive use of IRQ12. The options are: *Enabled* (default); *Disabled*.

OS Select For DRAM > 64MB

If the operating system (OS) you are using is OS2, select the option *OS2*; otherwise, stay with the default setting of *Non-OS2*. The options are: *Non-OS2* (default); *OS2*.

Video BIOS Shadow

When *Enabled*, it allows the BIOS to copy the video ROM code of the add-on video card to the system memory for faster access. The options are: *Enabled* (default), *Disabled*.

Chipset Features Setup

The “Chipset Features Setup” option controls the configuration of the system’s chipset. Control keys for this screen are the same as for the previous screen.

ROM PCI/ISA BIOS (2A69JF09) CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.	
DRAM Data Integrity Mode : Non-ECC	CPU Clock Frequency : 66 MHz
8 Bit I/O Recovery Time : 1	Spread Spectrum : Disabled
16 Bit I/O Recovery Time : 1	CPU Warning Temperature : Disabled
Memory Hole At 15M-16M : Disabled	Current System Temp. :
AGP Aperture Size (MB) : 64	Current CPU Temperature :
	Current CPUFAN Speed :
	Vcore : +3.3V :
	+ 5 V : +12 V :
	-12 V :- - 5 V :-
	ESC : Quit F1--> : Select Item
	F1 : Help PU/PD/+/- : Modify
	F5 : Old Values (Shift)F2 : Color
	F6 : Load BIOS Defaults
	F7 : Load Setup Defaults

DRAM Data Integrity Mode (available only if the mainboard uses the Intel 440LX AGPset)

This item provides software configurability for selecting between ECC (ECC generation and checking/correction) mode or non-ECC mode of operation of the DRAM interface. The options are: *Non-ECC* (default); *ECC* (set only if the onboard chip is the Intel® 82443LX and installed DIMM is with parity check).

8 Bit I/O Recovery Time

This item sets the timing for 8-bit ISA cards. The options are: *1* (default); *2* to *8*; *NA*.

16 Bit I/O Recovery Time

This item sets the timing for 16-bit ISA cards. The options are: *2* (default); *1* to *4*; *NA*.

Memory Hole At 15M-16M

When *Enabled*, the memory hole at the 15MB address will be relocated to the 15~16MB address range of the ISA cycle when the processor accesses the 15~16MB address area. When *Disabled*, the memory hole at the 15MB address will be treated as a DRAM cycle when the processor accesses the 15~16MB address. The options are: *Disabled* (default), *Enabled*.

AGP Aperture Size (MB)

This item allows you to select the main memory frame size for use by the onboard RAGE IIC AGP chip. The options are: 64 (default); 128; 256; 4; 8; 16; 32.

CPU Clock Frequency

This item allows you to set the ratio of the CPU external clock to the PCI bus clock. The options are: 66 MHz (default); 50 MHz; 68 MHz; 60 MHz, 75MHz.

Spread Spectrum

This item allows you to take advantage of the center spread-type or down spread-type of spread spectrum. The options are: Disabled (default), Enabled.

CPU Warning Temperature

This item allows you to set the maximum allowable CPU temperature for system to perform normally. When CPU temperature exceeds this temperature, system will proceed to enter Standby Mode of operation causing system to slowdown. The options are Disabled (default); 50°C/122°F; 53°C/127°F; 56°C/133°F; 60°C/140°F; 63°C/145°F; 66°C/151°F; 70°C/158°F.

Current System Temp / Current CPU Temperature / Current CPU Fan Speed / VCORE / +3.3(V) / +5.0(V) / +12(V) / -12(V) / -5.0(V)

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

Power Management Setup

The “Power Management Setup” option allows you to reduce the power consumption of the system. This feature turns off the video display and shuts down the hard drive after a period of inactivity.

ROM PCI/ISA BIOS (2A69JF09)	
POWER MANAGEMENT SETUP	
AWARD SOFTWARE, INC.	
Power Management : User Defined	** Reload Global Timer Events **
PM Control by APM : Yes	IRQ[3-7,9-15],NMI : Enabled
Video Off Method : DPMS	Primary IDE 0 : Disabled
Video Off After : Suspend	Primary IDE 1 : Disabled
MODEM Use IRQ : 3	Secondary IDE 0 : Disabled
Standby Mode : Disable	Secondary IDE 1 : Disabled
Suspend Mode : Disable	Floppy Disk : Disabled
HDD Power Down : Disable	Serial Port : Enabled
Throttle Duty Cycle : 62.5%	Parallel Port : Disabled
VGA Active Monitor : Disabled	
Soft-Off by PWR-BTIN : Instant-Off	
CPUFAN Off In Suspend: Enabled	
Resume by Ring : Disabled	
Resume by LAN : Enabled	
Resume by Alarm : Disabled	
	ESC : Quit ←→ : Select Item
	F1 : Help PU/PD/+/- : Modify
	F5 : Old Values (Shift)F2 : Color
	F6 : Load BIOS Defaults
	F7 : Load Setup Defaults

Power Management

This field acts as the master control for the power management modes. *Max Saving* puts the system into power saving mode after a brief period of system inactivity; *Min Saving* is almost the same as *Max Saving* except that this time the system inactivity period is longer; *Disabled* disables the power saving features; *User Defined* allows you to set power saving options according to your preference. The options are: *User Defined* (default); *Min Saving*; *Max Saving*.

PM Control by APM

The option *No* allows the BIOS to ignore the APM (Advanced Power Management) specification. Selecting *Yes* will allow the BIOS to wait for APM's prompt before it enters Standby mode or Suspend mode. If the APM is installed, it will prompt the BIOS to set the system into the power saving mode after all tasks are done. The options are: *Yes* (default); *No*.

Video Off Method

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

Video Off After

This item allows you to activate the video off feature for the display monitor power management. The options are: *Suspend* (default); *Standby*; *NA*.

MODEM Use IRQ

This feature allows you to select the IRQ# to meet the modem's IRQ#. The options are: 3 (default); NA; 4; 5; 7; 9; 10; 11.

Standby Mode/Suspend Mode

Sets the period of time after which Standby/Suspend Mode activates. At *Max Saving*, Standby/Suspend Mode will activate after 1 minute. At *Min Saving*, Standby/Suspend Mode will activate after 1 hour. If Power Management option is set at User Defined, user has the option to set it at 10 Sec; 20 Sec; 30 Sec; 40 Sec; 1 Min; 2 Min; 4 Min; 6 Min; 8 Min; 10 Min; 20 Min; 30 Min; 40 Min; or 1 Hour. The default value is *Disabled* (default).

HDD Power Down

This option shuts down any IDE hard drives in the system after a period of inactivity. The time period is user-configurable from 1 to 15 minutes. This feature does not affect SCSI hard drives. The options are: *Disabled* (default); 1 Min; . . . 15 Min.

Throttle Duty Cycle

This item allows you to set the speed at which the system clock runs during power saving mode. The settings are expressed as the ratio between the normal and power down clock speed. The options are: 62.5% (default); 75.0%; 12.5%; 25.0%; 37.5%; 50.0%.

VGA Active Monitor

When disabled, it allows the system to enter Power Management Mode even if the display monitor is currently active (e.g., running a screensaver program, etc.). The options are: *Disabled* (default); *Enabled*.

Soft-Off By PWR-BTTN

The option *Delay 4 Sec.* allows the system to have a power-off delay of 4 seconds upon pressing the power button. The option *Instant-Off* allows the system to shutdown immediately upon pressing the power button. The options are: *Instant-Off* (default); *Delay 4 Sec.*

CPUFAN Off In Suspend

When enabled, allows the CPU fan to shutdown when system is in Suspend Mode. The options are: *Enabled* (default), *Disabled*.

Resume By Ring

If this feature is enabled, the system can be turned on from the power-off state by remote phone call via the modem. The options are: *Disabled* (default); *Enabled*.

Resume By LAN

If this feature is enabled, the system can be turned on from the power-off state by a remote computer via the LAN. The options are: *Enabled* (default); *Disabled*.

Resume By Alarm

If this feature is enabled, BIOS allows you to set the time the system will be turned back on from the power-off state. The options are: *Disabled* (default); *Enabled*.

Date (of month) Alarm (available only if Resume By Alarm is Enabled)

Allows you to set the date when system will be turned back on from the power-off state. The options are: *0* (default); *1* to *31*.

Time (hh:mm:ss) Alarm (available only if Resume By Alarm is Enabled)

Allows you to set the specific hour, minute, and second of the day when system will be turned back on from the power-off state. The options are: hh: *7* (default); *0* to *23*; mm: *0* (default); *1* to *59*; ss: *0* (default); *1* to *59*.

IRQ [3-7, 9-15], NMI

When enabled, this item allows the system to reset power management timer when system activity at IRQ3 to 7 or IRQ9 to 15 is detected. The options are: *Enabled* (default); *Disabled*.

Primary IDE 0

When enabled, this item allows the system to reset power management timer when system activity at the primary (master) IDE is detected. The options are: *Disabled* (default); *Enabled*.

Primary IDE 1

When enabled, this item allows the system to reset power management timer when system activity at the primary (slave) IDE is detected. The options are: *Disabled* (default); *Enabled*.

Secondary IDE 0

When enabled, this item allows the system to reset power management timer when system activity at the secondary (master) IDE is detected. The options are: *Disabled* (default); *Enabled*.

Secondary IDE 1

When enabled, this item allows the system to reset power management timer when system activity at the secondary (slave) IDE is detected. The options are: *Disabled* (default); *Enabled*.

Floppy Disk

When enabled, this item allows the system to reset power management timer when system activity at the floppy disk drive is detected. The options are: *Disabled* (default); *Enabled*.

Serial Port

When enabled, this item allows the system to reset power management timer when system activity at the serial port is detected. The options are: *Enabled* (default); *Disabled*.

Parallel Port

When enabled, this item allows the system to reset power management timer when system activity at the parallel port is detected. The options are: *Disabled* (default); *Enabled*.

PNP/PCI Configuration Setup

The “PNP and PCI Setup” option configures the PCI Bus slots. All PCI Bus slots on the system use INTA#, thus all installed PCI cards must be set to this value.

ROM PCI/ISA BIOS (2A69JF09) PNP/PCI CONFIGURATION AWARD SOFTWARE, INC.	
PNP OS Installed : No	Slot 1 Use IRQ No. : Auto
Resources Controlled By : Auto	Slot 2 Use IRQ No. : Auto
Reset Configuration Data : Disabled	LAN Use IRQ No. : Auto
	PCI IRQ Activate By : Level
	Init Primary Display: PCI
	Assign IRQ for VGA : Enabled
	ESC : Quit ← : Select Item
	F1 : Help PU/PD/+- : Modify
	F5 : Old Values (Shift)F2 : Color
	F6 : Load BIOS Defaults
	F7 : Load Setup Defaults

PNP OS Installed

When Plug and Play operating systems (OS) are installed, interrupts may be reassigned by the OS when *Yes* is selected. When a non-Plug and Play OS is installed or to prevent reassigning of interrupt settings, select *No* here. The options are: *No* (default); *Yes*.

Resources Controlled By

If set at *Auto*, BIOS automatically arranges all system resources for you. If there are conflicts or you are not satisfied with the configuration settings, simply set all the resources by selecting *Manual*. The options are: *Auto* (default); *Manual*.

Reset Configuration Data

When *Enabled*, this feature allows the system to clear the last BIOS configuration data and reset them with the default BIOS configuration data. The options are: *Disabled* (default); *Enabled*.

IRQ-3; -4; -5; -7; -9; -10; -11; -12; -14; -15; DMA-0; -1; -3; -5; -6; -7 Assigned to (available only if Resources Controlled By is set at Manual)

These options allow you to set whether a particular IRQ# or DMA# is used by a PCI/ISA PNP or Legacy ISA card. The options are: *PCI/ISA PNP* (default); *Legacy ISA*.

Slot 1/2 Use IRQ No.

These options allow you to set how IRQ use is determined for each PCI slot. The default setting for each field is *Auto*, which uses auto-routing to determine IRQ use. The options are: *Auto* (default), *3, 4, 5, 7, 9, 10, 11, 12, 14, 15*.

LAN Use IRQ No.

This option allow you to set how IRQ use is determined for the onboard integrated PCI-based Intel 82558 Ethernet LAN controller. The default setting for this field is *Auto*, which uses auto-routing to determine IRQ use. The options are: *Auto* (default), *3, 4, 5, 7, 9, 10, 11, 12, 14, 15*.

PCI IRQ Activated By

If the IDE card is triggered by edge, set it at *Edge*. The options are: *Level* (default); *Edge*.

Init Primary Display

This feature allows you to set the primary graphics adapter used in the system. The options are: *PCI* (default), *AGP*.

Assign IRQ For VGA

If the onboard RAGE IIC/PRO AGP chip you are using does not need an IRQ, select *Disabled*, thereby releasing an IRQ for system use. The options are: *Enabled* (default), *Disabled*.

Used MEM Base Addr (available if Resources Controlled By is set at Manual)

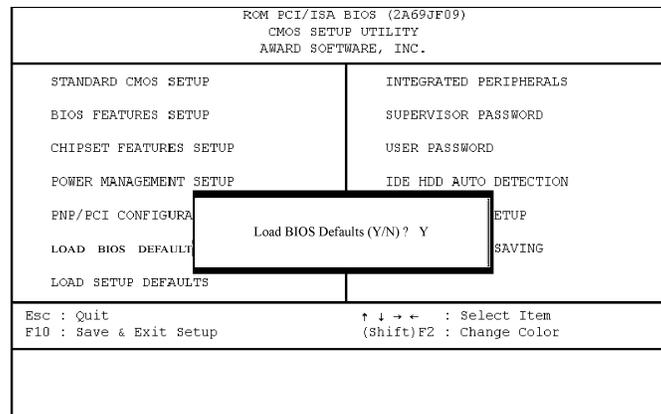
This field allows you to set the base address and block size of a Legacy ISA card that uses any memory segment within the *C800, CC00, D000, D400, D800, and DC00* address range. If you have such a card, and you are not using an ICU to specify its address range, select a base address from the six available options and the next field will then appear for selecting the block size. The options are: *N/A* (default); *C800; CC00; D000; D400; D800; DC00*.

Used MEM Length (available if Used MEM Base Addr is not set at N/A)

If you have more than one Legacy ISA card in the system that requires to use the aboved address range, you can increase the block size to either 8K, 16K, 32K, or 64K. If you are using an ICU to accomplish this task, leave the aboved option Used MEM Base Addr at N/A. The options are: 8K (default); 16K; 32K; 64K.

Load BIOS Defaults

The “Load BIOS Defaults” option allows you to load the troubleshooting default values permanently stored in the BIOS ROM. These default settings are non-optimal and disable all high performance features. To load these default settings, highlight “Load BIOS Defaults” on the main screen and then press the <Enter> key. The system displays a confirmation message on the screen. Press the <Y> key and then the <Enter> key to confirm. Press the <N> key and then the <Enter> key to abort. This feature does not affect the fields on the Standard CMOS Setup screen.



Load Setup Defaults

The “Load Setup Defaults” option allows you to load the default values to the system configuration fields. These default values are the optimized configuration settings for the system. To load these default values, highlight “Load Setup Defaults” on the main screen and then press the <Enter> key. The system displays a confirmation message on the screen. Press the <Y> key and then the <Enter> key to confirm. Press the <N> key and then the <Enter> key to abort. This feature does not affect the fields on the Standard CMOS Setup Screen.

BIOS Support USB Keyboard (available only when USB Controller is enabled)

When the USB devices cannot be detected automatically by the system BIOS or some driver diskettes came with the USB devices, set it at *DOS* to allow for the installation of the drivers. The options are: *Setup* (default); *DOS*.

Onboard FDC Controller

When *Enabled*, the floppy disk drive (FDD) controller is activated. The options are: *Enabled* (default); *Disabled*.

Onboard Serial Port 1

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

Onboard Serial Port 2

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

Onboard Parallel Port

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

Parallel Port Mode (available if Onboard Parallel Port is not set at Disabled)

Allows you to connect with an advanced printer. The options are: *ECP* (default); *EPP*; *SPP*; *ECP+EPP*.

ECP Mode Use DMA (available if Parallel Port Mode is set at ECP or ECP+EPP)

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

Supervisor Password and User Password

These two options set the system passwords. “Supervisor Password” sets a password that will be used to protect the system and the Setup utility; “User password” sets a password that will be used exclusively on the system. By default, the system comes without any passwords. To specify a password, highlight the type you want and then press the <Enter> key. A password prompt appears on the screen. Taking note that the password is case sensitive, and can be up to 8 alphanumeric characters long, type in your password and then press the <Enter> key. The system confirms your password by asking you to type it again. After setting a password, the screen automatically reverts to the main screen.

To implement the password protection, specify in the “Security Option” field of the BIOS Features Setup screen when the system will prompt for the password. If you want to disable either password, press the <Enter> key instead of entering a new password when the “Enter Password” prompt appears. A message confirms the password has been disabled.

IDE HDD Auto Detection

The “IDE HDD Auto Detection” option detects the parameters of an IDE hard drive and automatically enters them into the Standard CMOS Setup screen. To accept the optimal entries, press the <Y> key or else select from the numbers displayed under the OPTIONS field. If you accept the values, the parameters will appear listed beside the drive letter on the screen. The process then proceeds to the next drive letter. Pressing the <N> key to skip rather than to accept a set of parameters causes the program to enter zeros after that drive letter.

When auto-detection is completed, the program automatically enters all entries you accepted on the field for that drive in the Standard CMOS Setup screen. Skipped entries are ignored and are not entered in the screen.

If you are auto-detecting a hard drive that supports the LBA mode, three lines will appear in the parameter box. Choose the line that lists LBA for an LBA drive. Do not select Large or Normal.

The auto-detection feature can only detect one set of parameters for a particular IDE hard drive. Some IDE drives can use more than one set. This is not a problem if the drive is new and there is nothing on it.



If the hard drive was already formatted on an older previous system, incorrect parameters may be detected. You will need to enter the correct parameters manually or use low-level format if you do not need the data stored on the hard drive.

If the parameters listed differ from the ones used when the drive was formatted, the drive will not be readable. If the auto-detected parameters do not match the ones that should be used for your drive, do not accept them. Press the <N> key to reject the presented settings and enter the correct ones manually from the Standard CMOS Setup screen.

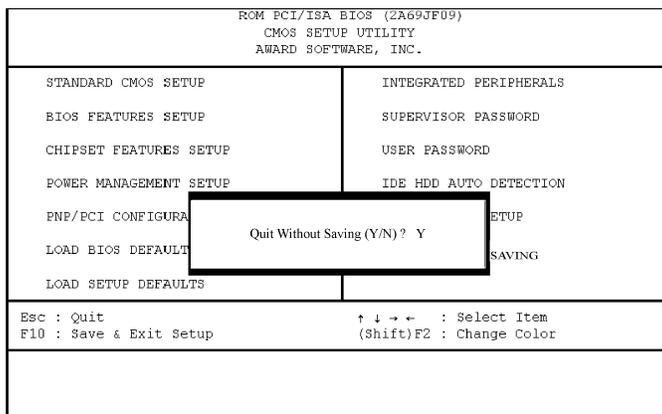
Save and Exit Setup

Select this option to save into the CMOS memory all modifications you specified during the current session. To save the configuration changes, highlight the “Save & Exit Setup” option on the main screen and then press the <Enter> key.

ROM PCI/ISA BIOS (2A69JF09) CMOS SETUP UTILITY AWARD SOFTWARE, INC.	
STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS FEATURES SETUP	SUPERVISOR PASSWORD
CHIPSET FEATURES SETUP	USER PASSWORD
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION
PNP/PCI CONFIGURATION	SETUP
LOAD BIOS DEFAULT	SAVING
LOAD SETUP DEFAULTS	
SAVE to CMOS and EXIT (Y/N)? Y	
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift)F2 : Change Color

Exit Without Saving

Select this option to exit the Setup utility without saving the modifications you specified during the current session. To exit without saving, highlight the “Exit Without Saving” option on the main screen and then press the <Enter> key.



Default values of the various Setup items on this chapter may not be the same ones shown on the monitor screen.