Chapter 3

AMI® BIOS USER'S GUIDE

The system configuration information and chipset register information is stored in the CMOS RAM. This information is retained by a battery when the power is off. Enter the BIOS setup (if needed) to modify this information.

The following pages will describe how to enter BIOS setup, and all about options.

3.1 Enter BIOS Setup

Enter the AMI® setup Program's Main Menu as follows:

1. Turn on or reboot the system. The following screen appears with a series of diagnostic check.

```
AMIBIOS (C) 1999 American Megatrends Inc.
A6191 VXXX XXXXX
Hit <DEL> if you want to run setup
(C) American Megatrends Inc.
61-XXXX-001169-00111111-071592-i82440FX-H
```

- 2. When the "Hit " message appears, press key to enter the BIOS setup screen.
- 3. After pressing key, the BIOS setup screen will appear.

Note: If you don't want to modify CMOS original setting, then don't press any key during the system boot.

AMIBIOS HIFLEX SETUP UTILITIES - VERSION 1.22 (C) 1999 American Megatrends, Inc. All Rights Reserved

Standard CMOS Setup Advanced CMOS Setup Advanced Chipset Setup Power Management Setup PCI/Plug and Play Setup Peripheral Setup Auto-Detect Hard Disks Change User Password Change Supervisor Password Auto Configuration with Optimal Settings Auto Configuration with Fail Safe Settings Save Settings and Exit Exit without Saving

> Auto-detect all hard disk parameters ESC:Exit 14:Sel F2/F3:Color F2:Save & Exit

- 4. Use the <Up> and <Down> key to move the highlight scroll up or down.
- 5. Use the <ENTER> key to select the option.
- 6. To exit, press <ESC>. To save and exit, press <F10>.
- 7. Section 3.2 to 3.7 will explain the option in more details.

3.2 Standard CMOS Setup

1. Press <ENTER> on "Standard CMOS Setup" of the main menu screen .

```
AMIBIOS SETUP - STANDARD CMOS SETUP
(C)1999 American Megatrends, Inc.All Rights Reserved
Date (mm/dd/yyyy): Fri Oct 29, 1999
Time (hh/mm/ss): 17:09:25
Floppy Drive A:
                         1.44 MB 3 1/2
Floppy Drive B:
                         Not Installed
                                           LBA Blk
                                                      PIO
                                                           32Bit
          Type Size Cyln Head WPcom Sec
                                          Mode Mode Mode Mode
Pri Master :Auto
                                           ON
                                                ON
                                                      AUTO ON
Pri Slave :Auto
                                           ON
                                                ON
                                                      AUTO ON
Sec Master :Auto
                                           ON
                                                ON
                                                      AUTO ON
                                                ON
                                           ON
Sec Slave :Auto
                                                      AUTO ON
Boot Sector Virus Protection Disabled
Month
       : Jan-Dec
                                           ESC:Exit↑↓:Sel
       : 01-31
Dav
                                           PgUp/PgDn:Modify
        : 1901-2099
Year
                                           F1:Help F2/F3:Color
```

- 2. Use <Up> and <Down> to choose the item and <PgUp> and <PgDn> keys to modify the highlighted item.
- 3. After you have finished with the Standard CMOS Setup, press <ESC> to go back to the main menu.

3.3 Advanced CMOS Setup

1. Press <ENTER> on "Advanced CMOS Setup" of the main menu

- 2. Use <Up> and <Down> to choose the item and <PgUp> and <PgDn> keys to modify the highlighted item.
- 3. After you have finished with the Advanced CMOS Setup, press <ESC> to go back to the main menu.

Description of the item on screen follows:

Quick Boot

Set this option to Enabled to permit AMI[®] BIOS to boot within 5 seconds. This option replaces the old ABOVE 1 MB Memory Test option. The Optimal default setting is Enabled. The Fail-Safe default setting is Disabled.

1st Boot Device/2nd Boot Device/3rd Boot Device

This option sets the sequence of boot drives.

The settings are:

0	
IDE0	The system will boot from the first HDD.
IDE1	The system will boot from the Second HDD.
IDE2	The system will boot from the Third HDD.
IDE3	The system will boot from the Fourth HDD.
F(optical)	The system will boot from LS-120(120M Floppy).
SCSI	The system will boot from the SCSI.
Network The syste	em will boot from the Network drive.
CD-ROM	The system will boot from the CD-ROM.
Disable Disable	this sequence.

Try other Boot Devices

This option sets the device boot, if all the Four Boot Devices failed.

Initial Display Mode

This option sets the device boot, if all the Four Boot Devices failed.

Display Mode at Add-On ROM Init

This option sets the device boot, if all the Four Boot Devices failed.

Floppy Access Control

This option sets the Floppy to Read-only or Read-Write.

Hard Disk Access Control

This option sets the Hard Disk to Read-only or Read-Write. During Read-Only, if you try to write on the Hard Disk, the system will halt.

S.M.A.R.T. for Hard Disks

This option sets the SMART Function for the hard disk. The hard disk need to have SMART function for this feature to work.

Boot up Num Lock

When this option is set to Off, AMI[®] BIOS turns off the Num Lock key when the system is powered on. The end user can then use the arrow keys on both the numeric keypad and the keyboard. The settings are On or Off. The optimal default and Fail-Safe default settings are On.

Floppy Drive Swap

Set this option to Enabled to specify that floppy drives A: and B: are swapped. The setting are Enabled and Disabled. The Optimal and Fail-Safe default settings are Disabled.

Floppy Drive Seek

When this option is set to Enabled, AMI[®] BIOS performs a Seek command on floppy drive A: before booting the system. The settings are Enabled and Disabled. The Optimal and Fail-Safe default settings are Disabled.

PS/2® Mouse Support

When this option is set to Enabled, AMI[®] BIOS supports a PS/2[®] mouse. The settings are Enabled and Disabled. The Optimal and Fail-Safe default settings are Enabled.

Primary Display

This option configures the primary display subsytem in the computer. The settings are Mono(monochrome), 40CGA, 80CGA or VGA/EGA. The optimal and Fail-Safe default settings are VGA/EGA.

Password Check

This option specifies the type of AMI[®] BIOS password protection that is implemented. The Optimal and Fail-Safe default settings are Setup.

Boot To $OS/2^{\circ} > 64MB$

Set this option to Enabled to permit the BIOS to run properly, if $OS/2^{\circ}$ is to be used with > 64MB of DRAM. The settings are Enabled or Disabled. The Optimal and Fail-safe default settings are Disabled.

Internal Cache

This option Enabled or Disabled the Internal Cache.

External Cache

This option Enabled or Disabled the External Cache.

L2 CacheECC

This option enables the Level 2 Cache memory ECC(Error Check Correction).

System BIOS Cacheable

AMI[®] BIOS always copies the system BIOS from ROM to RAM for faster execution. Set this option to Enabled to permit the contents of the F0000h RAM memory segment to be written to and read from cache memory. The settings are Enabled or Disabled. The Optimal default setting is Enabled. The Fail-Safe default setting is Disabled.

C000, 32K Shadow

These options specify how the contents of the video ROM are handled. The settings are:

Disabled - the Video ROM is not copied to RAM.

- **Cached** the contents of the video ROM from C0000h C7FFFh are not only copied from ROM to RAM; it can also be written to or read from cache memory.
- Shadow- the Contents of the video ROM from C0000h C7FFFh are copied(shadowed) from ROM to RAM for faster execution. The Optimal and Fail-Safe default setting is Cached.

3.4 Advanced Chipset Setup

1. Press <ENTER> on "Advanced Chipset Setup" of the main menu screen.

AMIBIOS SETUP - A (C) 1999 American Megatre		
SDRAM Idle Cycle Limit SDRAM TRC Bank Cycle Timing SDRAM TRP SRAS Precharge SDRAM TRAS Timing SDRAM CAS Latency	32 Cycles 8 Cycles 8 Cycles 3 Cycles 5 Cycles 3 Cycles	
SDRAM TRCD Timing DRAM Integrity Mode Memory Hole DRAM Burst Refresh Graphics Aperture Size MDA Support Spread Spectrum Stop Un-used PCI/DIMM Clock USB Function USB KB/Mouse Legacy Support	Enabled	ESC:ExitÎ↓:Sel PgUp/PgDn:Modify F1:Help F2/F3:Color

- 2. Use <Up> and <Down> to choose the item and <PgUp> and <PgDn> keys to modify the highlighted item.
- 3. After you have finished with the Advanced Chipset Setup, press <ESC> to go back to the main menu.

Description of the item on screen follows:

Configure SDRAM Timing By SPD

Choose Enabled, will automatically configure the DRAM Timing depending on the "DRAM Speed" selection. Choose Disabled, to customize the setup.

SDRAM PH Limit

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

SDRAM Idle Cycle Limit

This item specify the number of idel cycles to wait before precharging an idle bank. The settings are: 0/8/12/16/24/32/48 cycles or disabled.

SDRAM TRC Bank Cycle Timing

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

SDRAM TRP SRAS Precharge

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

SDRAM Tras Timing

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

SDRAM CAS Latency

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

SDRAM Trcd Timing

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

DRAM Integrity Mode

Set this option to Enabled or Disabled the DRAM integrity mode. The Optional and Fail-Safe default settings are Disabled.

Memory Hole

This option allows the end user to specify the location of a memory hole. The cycle matching the selected memory hole will be passed to the ISA bus. If Enabled, the selected hole is not remapped.

DRAM Burst Refresh

Set this option to Enabled or Disabled the DRAM burst refresh.

Graphics Aperture Size

This option determines the effective size of the graphics aperture used in the particular PAC configuration. The AGP aperture is memorymapped, while graphics data structure can reside in a graphics aperture. The aperture range should be programmed as not cacheable in the processor cache, accesses with the aperture range are forwarded to the main memory, then PAC will translate the original issued address via a translation table that is maintained on the main memory. The option allows the selection of an aperture size of 4MB, 8MB, 16MB, 32MB, 64MB, 128MB, and 256MB.

MDA Support

This option determines whether the VGA card can support the monochrome. During Enabled, the VGA can support monochrome. The default setting is Disabled.

Spread Spectrum

This item allows you to seclect the clock generator Spread Spectrum function. the default is Enabled. This item should always be set to Disabled, if you overclock the processor. If you set to Enabled, it will work better for EMI test.

Stop Un-used PCI/DIMM Clock

During Enabled, any unpopulated DIMM socket or PCI slot will be non-operational. During Disabled, all DIMM socket or PCI slot will be operational. The default setting is Enabled.

USB Function

Set this option to Enabled or Disabled the on-chip USB controller. The Optional and Fail-Safe default settings are Disabled.

USB KB/Mouse Legacy Support

Set this option to Enabled or Disabled USB Mouse & keyboard. The Optional and Fail-Safe default settings are Disabled.

3.5 Power Management Setup

1. Press <ENTER> on "Power Management Setup" of the main menu screen.

AMIBIOS SETUP - P (C) 1999 American Megatre		
	Suspend Suspend Disabled N/A On/Off Power Off Disabled Disabled	Available Options: Disabled Enabled
		ESC:ExitÎ↓:Sel PgUp/PgDn:Modify F1:Help F2/F3:Color

- 2. Use <Up> and <Down> to choose the item and <PgUp> and <PgDn> keys to modify the highlighted item.
- 3. After you have finished with the Power Management Setup, press <ESC> to go back to the main menu.

Description of the item on screen follows:

ACPI Aware O/S

This option sets the ACPI Power Management to be active or not. The settings are yes or no.

Power Management/APM

Set this option to Enabled to enable the chipset's power management features and APM(Advanced Power Management). The settings are Enabled, Inst-On(instant-on) or Disabled. The Optimal and Fail-Safe default settings are Disabled.

Green PC Monitor Power State

This option specifies the power state that the green PC-compliant video monitor enters when AMI[®] BIOS places it in a power savings state after the specified period of display inactivity has expired. The settings are Off, Standby, Suspend or Disabled. The Optimal and Fail-Safe default settings are Standby.

Video Power Down Mode

This option specifies the power conserving state that the VESA VGA video subsystem enters after the specified period of display inactivity has expired. The settings are Disabled, Standby or Suspend. The Optimal and Fail-Safe default settings are Standby.

Hard Disk Power Down Mode

This option specifies the power conserving state that the hard disk drive enters after the specified period of hard drive inactivity has expired. The settings are Disabled, Standby or Suspend. The Optimal and Fail-Safe default settings are Disabled.

Suspend Time Out (Minute)

This option specifies the length of a period of system inactivity while in Suspend state. When this length of time expires, the computer enters Suspend power state. The settings are Disabled, 1 min, 2 min, 4 min, 8 min, 10 min, 20 min, 30 min, 40 min, 50 min or 60 min. The Optimal and Fail-Safe default settings are Disabled.

Modem Use IO Port

This indicates which I/O port will be used by the Modem (if there is a modem installed)

Modem Use IRQ

This indicates which IRQ number will be used by the Modem (if there is a modem installed).

Power Button Function

During Suspend, if you push the switch once, the system goes into suspend mode and if you push it more than 4 seconds, the system will be turned off. During On/Off, the system will turn off once you push the switch.

Restore on AC/Power Loss

The settings are power on, power off or last state. During power on, after every AC power loss, the system will be turned on. During last status, after every AC power losss, whatever the system status, it will be the same when the AC power returns.

Ring Resume from Soft-Off

During Disabled, the system will ignore any incoming call from the modem. During Enabled, the system will boot up if there's an incoming call from the modem.

Note: If you have change the setting, you must let the system boot up until it goes to the operating system. Then, power off the system. This function will work the next time you power on.

LAN Resume from Soft-Off

During Disabled, the system will ignore any incoming signal from the LAN network card. During Enabled, the system will boot up if there's an incoming signal from the LAN network card.

Note: If you have change the setting, you must let the system boot up until it goes to the operating system. Then, power off the system. This function will work the next time you power on.

PME# Resume from Soft Off

During Disabled, the system will ignore any event on PME (Power Management Event). During Enabled, the system wull boot up if there's an event on PME. The default setting is Disabled.

RTC Alarm Resume From Soft-Off

This function is for setting the Date, Hour, Minute, and Second for your computer to boot up. During Disabled, you cannot use this function. During Enabled, Choose the Date, Hour, Minute, and Second:

RTC Alarm Date	Choose which day the system will boot up.
RTC Alarm Hour	Choose which hour the system will boot up.
RTC Alarm Minute	Choose which minute the system will boot up.
RTC Alarm Second	Choose which second the system will boot up.

Note: If you have change the setting, you must let the system boot up until it goes to the operating system. Then, power off the system. This function will work the next time you power on.

3.6 PCI/Plug and Play Setup

1. Press <ENTER> on "PCI/Plug and Play Setup" of the main menu screen.

AMIBIOS SETUP - PO	- · · · ·	-
(C) 1999 American Megatro	ends, Inc. All	Rights Reserved
Plug and Play Aware O/S Clear NVRAM PCI Latency Timer (PCI Clocks) Primary Graphics Adapter PCI VGA Palette Snoop OffBoard PCI IDE Card OffBoard PCI IDE Card OffBoard PCI IDE Secondary IRQ DMA Channel 0 DMA Channel 1 DMA Channel 3 DMA Channel 5 DMA Channel 5 DMA Channel 6 DMA Channel 7 IRQ3 IRQ4 IRQ5 IRQ7		Available Options: Enabled Disabled
IRQ9 IRQ10 IRQ11	PCI/PnP PCI/PnP PCI/PnP	
IRQ14 IRQ15 Reserved Memory Size Reserved Memory Address	PCI/PnP PCI/PnP Disabled C8000	ESC:Exit↑↓:Sel PgUp/PgDn:Modify F1:Help F2/F3:Color

- 2. Use <Up> and <Down> to choose the item and <PgUp> and <PgDn> keys to modify the highlighted item.
- 3. After you have finished with the PCI/Plug and Play Setup, press <ESC> to go back to the main menu.

Description of the item on screen follows:

Plug and Play Aware O/S

Set this option to Yes if the operating system in this computer is aware of and follows the Plug and Play specification. Currently, only Windows[®] 95 is PnP-aware. The settings are Yes or No. The Optimal and Fail-Safe default settings No.

Clear NVRAM

During Yes, this will clear NVRAM data on every boot.

PCI Latency Timer (PCI Clocks)

This option specifies the latency timings (in PCI clocks) for all PCI devices on the PCI bus. The settings are 32, 64, 96, 128, 160, 192, 224 or 248. The Optimal and Fail-Safe default settings are 64.

Primary Graphics Adapter

This option is for selecting which VGA card is to be your primary display graphics adapter.

PCI VGA Palette Snoop

When this option is set to Enabled, multiple VGA devices operating on different buses can handle data from the CPU on each set of palette registers on every video device. Bit 5 of the command register in the PCI device configuration space is the VGA Palette Snoop bit (0 is disabled). For example, if there are two VGA devices in the computer (one PCI and ISA) and the Bit settings are:

Disabled - Data read and written by the CPU is only directed to the PCI VGA device's palette registers.

Enabled - Data read and written by the CPU is directed to both the PCI VGA device's palette registers and the ISA VGA device palette registers, permitting the palette registers of both devices to be identical.

This option must be set to Enabled if an ISA adapter card requires VGA palette snooping. The settings are Enabled or Disabled. The Optimal and Fail-Safe default settings are Disabled.

Offboard PCI IDE Card

This option specifies if an offboard PCI IDE controller adapter card is installed in the computer. You must specify the PCI expansion slot on the mainboard where the offboard PCI IDE controller is installed. If an offboard PCI IDE controller is used, the onboard IDE controller is automatically disabled. The settings are Auto(AMI[®] BIOS automatically determines where the offboard PCI IDE controller adaper card is installed), Slot1, Slot2, or Slot3. The Optimal and Fail-Safe settings are Auto.

If an offboard PCI IDE controller adapter card is installed in the computer, you must also set the Offboard PCI IDE Primary IRQ and Offboard PCI IDE Secondary IRQ options.

Offboard PCI IDE Primary IRQ/ Offboard PCI IDE Secondary IRQ

These options specify the PCI interrupt used by the Primary (or Secondary) IDE channel on the offboard PCI IDE controller. The settings are Disabled, Hardwired, INTA, INTB, INTC or INTD. The Optimal and Fail-Safe default settings are Disabled.

DMA Channel 0/1/3/5/6/7

These options specify the bus that the specified DMA channel is used. These options allow you to reserve DMAs for legacy ISA adapter cards.

These options determine if AMI[®] BIOS should remove a DMA from the available DMAs passed to devices that are configurable by the system BIOS. The available DMA pool is determined by reading the ESCD NVRAM. If more DMAs must be removed from the pool, the end user can use these options to reserve the DMA by assigning an ISA/EISA setting to it.

IRO3/IRO4/IRO5/RO7/IRO9/IRO10/IRO11/IRO14/IRO15

These options specify the bus that the specified IRO line is used on. These options allow you to reserve IROs for legacy ISA adapter cards. These options determine if AMI[®] BIOS should remove an IRO from the pool of available IROs passed to devices that are configurable by the system BIOS. The available IRO pool is determined by reading the ESCD NVRAM. If more IROs must be removed from the pool, the end user can use these options to reserve the IRO by assigning an ISA/EISA setting to it. Onboard I/O is configured by AMI® BIOS. All IROs used by onboard I/O are configured as PCI/PnP. If all IROs are set to ISA/EISA and IRO14 and 15 are allocated to the onboard PCI IDE, IRO9 will still be available for PCI and PnP devices, because at least one IRQ must be available for PCI and PnP devices. The settings are ISA/EISA or PCI/PnP. The Optimal and Fail-Safe default settings are IRQ3 through 7 are ISA/EISA. The Optimal and Fail-Safe default settings PCI/PnP.

Reserved Memory Size

This option allows the user to reserved the memory size for old add-on card. The settings are 16k/23k/64k/Disabled.

Reserved Memory Address

This option allows the user to reserved the memory size of the old add-on card in the reserved memory address. The default setting is C8000.

3.7 Peripheral Setup

1. Press <ENTER> on "Peripheral Setup" of the main menu screen.

AMIBIOS SETUP (C) 1999 American Megatre		
Onboard FDC Onboard Serial Port A Onboard Serial Port B IR Port Support IR Mode Select IR IRQ Select IR DMA Select Onboard Parallel Port Parallel Port Mode EFP Version Parallel Port IRQ Parallel Port DMA Channel Onboard IDE Onboard Sound	Auto 3F8h/COM1 2F8h/COM2 Disabled N/A N/A Auto ECP N/A Auto ECP N/A Auto Both Enabled	Available Options: Auto Disabled Enabled
		ESC:Exit ¹ :Sel PgUp/PgDn:Modify F1:Help F2/F3:Color

- 2. Use <up> and <down> to choose the item and <PgUp> and <PgDn> keys to modify the highlighted item.
- 3. After you have finished with the Peripheral Setup, press <ESC> to go back to the main menu.

Description of the item on screen follows:

Onboard FDC

Choose Auto, for the BIOS to automatically detect the device

If the ISA add-on card has	Onboard FDC to be set at
FDC exist	Disabled
none FDC exist	Enabled

Choose Enabled, Enabling onboard FDC. Choose Disabled, Disabling onboard FDC. The Optimal and Fail-Safe default settings are Auto.

Onboard Serial Port A/Onboard Serial Port B

Choose 3F8, for the BIOS to automatically detect the device.

If the ISA add-on card has		Onboard Serial port to be set at					
COM1 (I/O:3F8H)	COM2 (I/O:3F8H)	COM3 (I/O:3E8H)	COM4 (I/O:2E8H)	PORT1	IRQ ASSIGNED	PORT2	IRQ ASSIGNED
~	✓	✓	✓	DISABLED	Х	DISABLED	Х
 ✓ 	✓	Х	Х	COM3	4	COM4	3
X	Х	✓	✓	COM1	4	COM2	3
 ✓ 	Х	Х	✓	COM2	3	COM3	4
X	✓	✓	Х	COM1	4	COM4	3
 ✓ 	✓	~	Х	COM4	3	DISABLED	Х
 ✓ 	✓	Х	✓	COM3	4	DISABLED	Х
 ✓ 	Х	~	✓	COM2	3	DISABLED	Х
X	✓	✓	✓	COM1	4	DISABLED	Х
X	Х	Х	Х	COM1	4	COM2	3
 ✓ 	Х	Х	Х	COM2	3	COM3	4
X	✓	Х	Х	COM1	4	COM3	4
X	Х	✓	Х	COM1	4	COM2	3
Х	Х	Х	✓	COM1	4	COM2	3

Note: If the onboard serial port interrupt and ISA add-on card interrupt are in conflict, the serial port will not work properly. Please disable one of the devices.

IR Port Support/IR Mode Select/IR IRQ Select/IR DMA Select

This items allows the user to determine which InfraRed (IR) function of the onboard I/O chip.

Onboard Parallel Port

Choose Auto, the BIOS automatically assigned onboard parallel port to the available parallel port or disabled.

If the ISA add-on card has			Onboard parallel	port to be set as
LPT1	LPT2	LPT3	PORT	IRQ
I/O:378H	I/O:278H	I/O:3BCH	ASSIGNED	ASSIGNED
✓	\checkmark	✓	Disabled	Х
✓	✓	X	LPT3	5
✓	Х	 ✓ 	LPT2	5
Х	✓	✓	LPT1	7
✓	Х	X	LPT2	5
Х	✓	X	LPT1	7
Х	Х	✓	LPT1	7
Х	Х	Х	LPT1	7

Note: If the onboard parallel port interrupt and ISA add-on card interrupt are in conflict, the parallel port will not work properly. Please disable one of the devices.

Parallel Port Mode

This option allows user to choose the operating mode of the onbaord parallel port. The settings are Normal, SPP/EPP or ECP mode.

EPP Version

This option is for setting which EPP version will be used. The settings are 1.7 and 1.9.

Parallel Port IRQ

If the onboard parallel mode is not on auto mode, the user can select the interrupt line for onboard parallel port. We suggest that the user select the interrupt for the onboard parallel port as shown below:

Onboard parallel port set at	Parallel Port IRQ
LPT1(378H)	7
LPT2(278H)	5
LPT3(3BCH)	5

Parallel Port DMA Channel

This option allows user to choose DMA channel 1 to 3 for the onboard parallel port on ECP mode.

Onboard IDE

Set this option to enable or disable on board IDE controller.

Onboard Sound

This item allows you to enable/disable the onboard Aureal audio chipset. The settings are Enabled, Disabled.

3.8 Auto-Detect Hard Disks

You can use this utility to automatically detect the characteristics of most hard drives.

AMIBIOS SETUP - STANDARD CMOS SETUP (C)1999 American Megatrends, Inc. All Rights Reserved Date (mm/dd/yyyy): Fri Oct 29, 1999 Time (hh/mm/ss): 17:09:25 Floppy Drive A: 1.44 MB 3 1/2 Floppy Drive B: Not Installed LBA Blk PIO 32Bit Mode Mode Mode Mode Type Size Cyln Head WPcom Sec AUTO ON Pri Master :Auto ON ON ON Pri Slave :Auto ON AUTO ON Sec Master :Auto ON ON AUTO ON ON ON AUTO ON Sec Slave :Auto Boot Sector Virus Protection Disabled Month : Jan-Dec ESC:Exit^{↑↓}:Sel : 01-31 : 1901-2099 Day PgUp/PgDn:Modify Year F1:Help F2/F3:Color

3.9 Range User/Supervisor Password

This Main Menu item lets you configure the system so that a password is required each time the system boots or an attempt is made to enter the Setup program. Supervisor Password allows you to change all CMOS settings but the User Password setting doesn't have this function. The way to set up the passwords for both Supervisor and User are as follow:

1. Choose "Change Password" in the Main Menu and press <Enter>. The following message appears:

"Enter Password:"

- 2. The first time you run this option, enter your password up to 6 characters only and press <Enter>. The screen will not display the entered characters. For no password, just press <Enter>.
- 3. After you enter the password, the following message appears prompting you to confirm the password:

"Retype Password:"

- 4. Enter exactly the same password you just typed in to confirm the password and press <Enter>.
- 5. Move the cursor to Save Settings and Exit to save the password.
- 6. If you need to delete the password you entered before, choose the Supervisor Password and press <Enter>. It will delete the password that you had before.
- 7. Move the cursor to Save Settings and Exit to save the option you did. Otherwise, the old password will still be there when you turn on your machine next time.