

Figure-2 Standard CMOS Setup Menu

For the items marked, press enter, a window will pop up as shown below. You can view detailed information or make modifications.

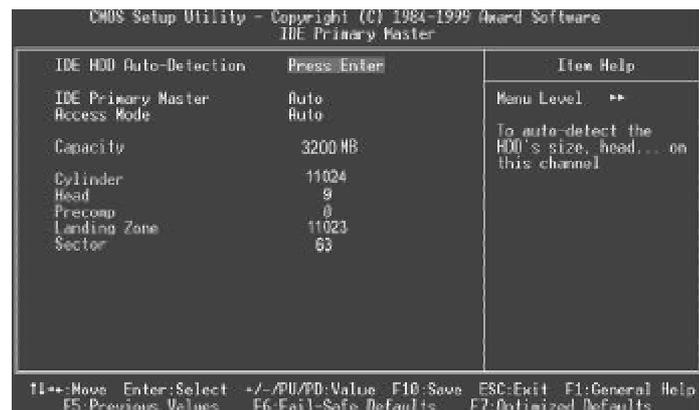


Figure-2-1 IDE Primary Master Setup Menu

Hard Disk

Primary Master/Primary Slave/Secondary Master/Secondary Slave

These categories identify the HDD types of 2 IDE channels installed in the computer system. There are three choices provided for the Enhanced IDE BIOS: None, Auto, and User. 'None' means no HDD is installed or set; 'Auto' means the system can auto-detect the hard disk when booting up; by choosing 'user', the related information should be entered regarding the following items. Enter the information directly from the keyboard and press < Enter>:

CYLS	number of cylinders	HEAD	number of heads
PRECOMP	write pre-compensation	LANDZ	landing zone
SECTOR	number of sectors	MODE	HDD access mode



The Award BIOS supports 3 HDD modes: NORMAL, LBA and LARGE.

NORMAL

Generic access mode in which neither the BIOS nor the IDE controller will make any transformation during accessing. The maximum number of cylinders, heads and sectors for NORMAL mode are 1024, 16 and 63.

If the user sets his HDD to NORMAL mode, the maximum accessible HDD size will be 528 megabytes even though its physical size may be greater than that.

LBA (Logical Block Addressing) mode

A new HDD accessing method to overcome the 528 Megabyte bottleneck. The number of cylinders, heads and sectors shown in setup may not be the number physically contained in the HDD.

During HDD accessing, the IDE controller will transform the logical address described by sector, head and cylinder number into its own physical address inside the HDD.

LARGE mode

Some IDE HDDs contain more than 1024 cylinder without LBA support (in some cases, users do not want LBA). The Award BIOS provides another alternative to support these kinds of HDD.

BIOS tricks DOS (or other OS) into dividing the number of cylinders is less than 1024 by dividing it by 2. At the same time, the number of heads is multiplied by 2. A reverse transformation process will be made inside INT13h in order to access the right HDD address.

If using Auto detect, the BIOS will automatically detect the IDE hard disk mode and set it as one of the three modes.

Remark

To support LBA or LARGE mode of HDDs, there must be some softwares involved which are located in Award HDD Service Routine(INT13h).It may fail to access a HDD with LBA (LARGE) mode selected if you are running under an Operating System which replaces the whole INT 13h.



Video

Set this field to the type of video display card installed in your system.

EGA/ VGA	Enhanced Graphics Adapter / Video Graphic Array. For EGA, VGA, SEGA, SVGA, or PGA monitor adapters.
CGA 40	Color Graphic Adapter, powering up in 40 column mode.
CGA 80	Color Graphic Adapter, powering up in 80 column mode.
MONO	Monochrome adapter, including high resolution monochrome adapters.

Halt On

This category determines whether or not the computer will stop if an error is detected during powering up.

No errors	The system boot will not stop for any errors that may be detected.
All errors	Whenever the BIOS detects a non-fatal error, the system will stop and you will be prompted.
All, But Keyboard	The system boot will not stop for a keyboard error; but it will stop for all other errors.
All, But Diskette	The system boot will not stop for a disk error; but it will stop for all other errors.
All, But Disk/Key	The system boot will not stop for a keyboard or disk error, but it will stop for all other errors.

Memory

This is a Display-Only Category, determined by POST (Power On Self Test) of the BIOS.

Base Memory	The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.
Extended Memory	The BIOS determines how much extended memory is presented during the POST.
Total Memory	Total memory of the system equals the sum of the above memory.



SpeedEasy CPU Setup

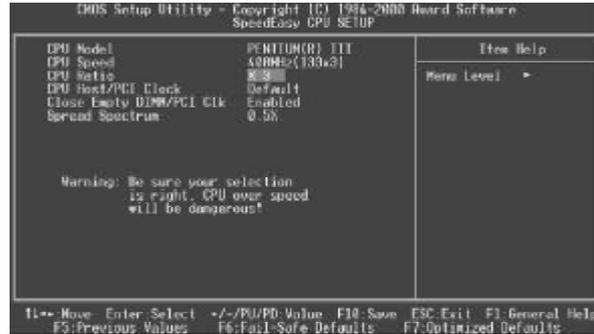


Figure-3 SpeedEasy CPU Setup

The following indicates the options of each item and describes their meanings .

<u>Item</u>	<u>Option</u>	<u>Description</u>
• CPU Model	<i>Intel(R) Celeron(TM)</i>	BIOS can automatically detect the CPU model, therefore this item is shown only.
• CPU Speed	<i>200MHz (66x3)</i>	CPU frequency should be set according to the CPU type. CPU frequency should be set according to the CPU type. For processors with 66MHz FSB you can choose from 200MHz (66X3) to 533MHz(66x8). For processors with 100MHz FSB, you can select from 300MHz(100X3) to 800MHz(100X8). For processors with 133MHz FSB, you can select from 400MHz (133x3) to 1064MHz(133x8).
• CPU Ratio	<i>3~8</i>	The multiplier can be chosen from 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8. However the multiplier setting will not function for bus ratio locked processor, only bus ratio unlocked processor.
• CPU Host/PCI Clock	<i>66/33MHz 150/37MHz</i>	Selects the CPU host bus clock and PCI clock.
• Close Empty DIMM/PCI Clk	<i>Enabled Disabled</i>	Closes empty DIMM or PCI clock to reduce EMI. Does not close empty DIMM or PCI clock.
• Spread Spectrum	<i>0.25% 0.5% Disabled</i>	Enables Clock Spread Spectrum to reduce EMI. Disables Clock Spread Spectrum to reduce EMI.

Warning:

Do not set CPU frequency higher than its working frequency. If you do, we will not be responsible for any damages caused.



Advanced BIOS Features Setup

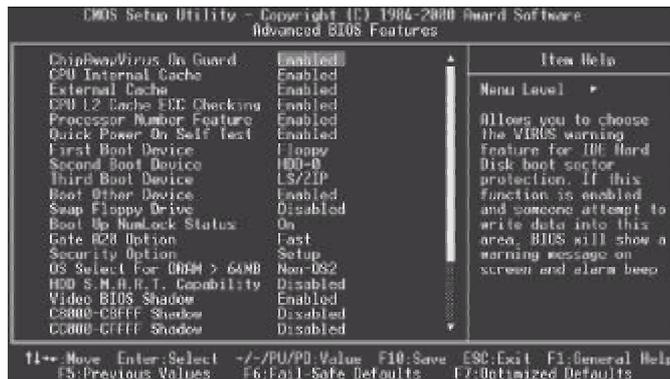


Figure-4 BIOS Features Setup Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• ChipAway Virus OnGuard	<i>Enabled</i>	Guards against boot Virus threats early in the boot cycle, before they have a chance to load into your system, ensuring your computer boots to a clean operating system.
• CPU Internal Cache	<i>Disabled</i>	Invalidates this function.
• CPU L2 Cache ECC Checking	<i>Enabled</i>	Enables CPU internal Level1/Level2 cache.
• Processor Number Feature	<i>Disabled</i>	Disables CPU internal Level1/Level2 cache.
• Quick Power On Self Test	<i>Enabled</i>	Enables CPU L2 Cache ECC function.
	<i>Disabled</i>	Disables CPU L2 Cache ECC function.
• First (Second, Third) Boot Device	<i>Disabled</i>	Enables Pentium®III Processor Number can be readable.
• Boot other Device	<i>Floppy</i>	Pentium®III Processor Number can be unreadable.
• Swap Floppy Drive	<i>Enabled</i>	Enables quick POST. BIOS will shorten or skip some check items during POST to speed up POST after you power on the computer.
• Boot Up NumLock Status	<i>Disabled</i>	Normal POST.
	<i>Disabled</i>	Select Your Boot Device Priority. It could be Disabled, Floppy, LS/ZIP, HDD-0, HDD-1, HDD-2, HDD-3, SCSI, CDROM, LAN.
	<i>Enabled</i>	Exchanges the assignment of A&B floppy drives.
	<i>Disabled</i>	The assignment of A&B floppy drives are normal.
	<i>On</i>	Keypad is used as number keys.
	<i>Off</i>	Keypad is used as arrow keys.



• Boot Up	<i>On</i>	Keypad is used as number keys.
Numlock Status	<i>Off</i>	Keypad is used as arrow keys.
• Gate A20 Option	<i>Normal</i>	The A20 signal is controlled by the keyboard controller or chipset hardware.
	<i>Fast</i>	Default setting. The A20 signal is controlled by Port 92 or the chipset specific method.
• Memory Parity/ECC Check	<i>Enabled</i>	Enables the Error Checking & Correction if ECC memory is used.
	<i>Disabled</i>	Disables the ECC function.
• Security Option	<i>System Setup</i>	Select whether the password is required every time the system boots or only when you enter setup.
• OS Select For DRAM>64MB	<i>Non-OS2</i>	If your operating system is not OS/2, please select this item.
	<i>OS2</i>	If system DRAM is more than 64MB and the operating system is OS/2, please select this item.
• HDD S.M.A.R.T Capability	<i>Enabled</i>	Enables S.M.A.R.T hard disk support.
	<i>Disabled</i>	Invalidates this feature.
• Video BIOS Shadow	<i>Enabled</i>	Video BIOS will be copied to RAM. Video Shadow will increase the video speed.
	<i>Disabled</i>	Video shadow is disabled.
• C8000~CBFFF Shadow: DC000~DFFFF Shadow:	<i>Enabled</i>	Optional ROM will be copied to RAM by 16K bytes per unit.
	<i>Disabled</i>	The shadow function is disabled.
• Delay For HDD 0~15 (Secs):	<i>0~15</i>	Sets the pre-delay time for hard disk to be accessed by the system.
• Show Bootup Logo	<i>Disabled</i>	Enables the logo when system boots up.
	<i>Enabled</i>	Logo will not be shown when system boots up.
• Flash Write Protect	<i>Enabled</i>	Does not allow you to upgrade the BIOS.
	<i>Disabled</i>	Note: Enabling this item can protect the system BIOS from being attacked by severe virus such as CIH. Therefore disable this item only when wanting to flash BIOS, afterwards set this item as Enabled (default). Disabling this item allows you to upgrade the BIOS.



Advanced Chipset Features Setup

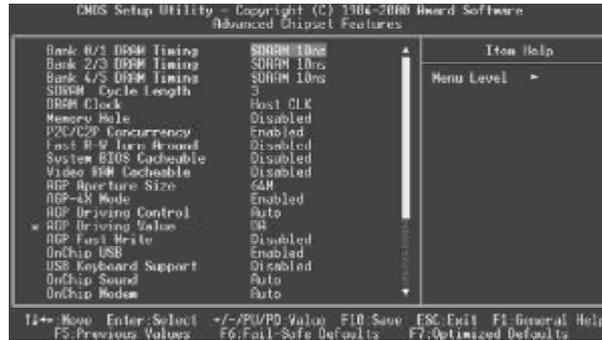


Figure-5 Advanced Chipset Features Setup Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• Bank 0/1, 2/3, 4/5 DRAM Timing	<i>EDO 50ns</i> <i>EDO 60ns</i> <i>Normal</i> <i>Medium</i> <i>Fast</i> <i>Turbo</i>	These items are of selected EDO DRAM read/write timing. Ensure your DIMMs are as fast as 50ns, otherwise select 60ns. The faster you choose, the higher performance you receive.
• SDRAM Cycle Length	<i>2/3</i>	Define the CLT timing parameter of SDRAM expressed in 66MHz clocks. Latency Time = 2 clocks Latency Time = 3 clocks
• DRAM Clock	<i>Host Clk</i> <i>Hclk-33M</i> <i>Hclk+33M</i>	DRAM frequency same as CPU FSB DRAM frequency is faster than CPU FSB by 33MHz DRAM frequency is slower than CPU FSB by 33MHz
• Memory Hole	<i>Enabled</i> <i>Disabled</i>	Memory Hole at 15-16M is reserved for expanded ISA card. Do not set this memory hole.
• P2C/C2P Concurrency	<i>Enabled</i> <i>Disabled</i>	Enabled P2C/C2P concurrency Disable P2C/C2P concurrency
• Fast R-W Turn Around	<i>Enabled</i> <i>Disabled</i>	Enable Fast R-W Turn Around. Disable Fast R-W Turn Around.
• System BIOS Cacheable	<i>Enabled</i> <i>Disabled</i>	Beside conventional memory, system BIOS area is also cacheable. System BIOS area is not cacheable.
• Video RAM Cacheable	<i>Enabled</i> <i>Disabled</i>	Besides conventional memory, video RAM is also cacheable. Video RAM area is not cacheable.



• AGP Aperture Size (MB)	4~256	Sets the effective size of the Graphics Aperture to be used in the particular PAC Configuration.
• AGP-4X Mode	<i>Enabled</i> <i>Disabled</i>	Supports 4X mode. Does not support 4X mode.
• AGP Driving Control	<i>Auto</i> <i>manual</i>	The default setting is suggested.
• AGP Driving Value	<i>EC</i>	Sets the AGP Driving Value when the 4X AGP card runs incorrectly.
• AGP Fast Write	<i>Enabled</i> <i>Disabled</i>	Enable AGP Fast Write Disable AGP Fast Write
• Onchip USB	<i>Enabled</i> <i>Disabled</i>	Enables the onchip USB controller. Disables the onchip USB controller.
• USB Keyboard Support	<i>Enabled</i> <i>Disabled</i>	USB keyboard support is enabled. USB keyboard support is disabled.
• Onchip Sound	<i>Auto</i> <i>Disabled</i>	Enable AC97 function. Disable AC97 function.
• Onchip Modem	<i>Auto</i> <i>Disabled</i>	Enable MC97 function. Disable MC97 function.
• CPU to PCI Write Buffer	<i>Enabled</i> <i>Disabled</i>	Enable CPU to PCI Write Buffer. Disable CPU to PCI Write Buffer.
• PCI Dynamci Bursting	<i>Enabled</i> <i>Disabled</i>	Enable PCI Dynamci Bursting. Disable PCI Dynamci Bursting.
• PCI Master 0 WS Write	<i>Enabled</i> <i>Disabled</i>	Enable PCI Master 0 WS Write. Disable PCI Master0 WS Write.
• PCI Delay Transaction	<i>Enabled</i> <i>Disabled</i>	Enable PCI Delay Transaction. Disable PCI Delay Transaction.
• PCI#2 Access #1 Retry	<i>Enabled</i> <i>Disabled</i>	Enable PCI#2 Access #1 Retry. Disable PCI#2 Access #1 Retry.
• AGP Master 1 WS Write	<i>Enabled</i> <i>Disabled</i>	Enable AGP Master 1 WS Write. Disabled AGP Master 1 WS Write.
• AGP Master 1 WS Read	<i>Enabled</i> <i>Disabled</i>	Enable AGP Master 1 WS Read. Disabled AGP Master 1 WS Read.
• Memory Parity/ECC Check	<i>Enabled</i> <i>Disabled</i>	Enables the Error Checking&Correction if ECC memory is used. Disable the ECC function.



Power Management Setup



Figure-6 Power Management Setup Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• ACPI function	<i>Enabled</i> <i>Disabled</i>	Validates ACPI function. Invalidates ACPI function.
• Power Management	<i>User Define</i> <i>Min Saving</i> <i>Max Saving</i>	Users can configure their own Power Management Timer. Pre - defined timer values are used. All timers are in their MAX values. Pre - defined timer values are used. All timers are in their MIN values.
• ACPI Suspend Type	<i>S1</i> <i>S3</i> <i>Disabled</i>	Selects the ACPI suspend type.
• PM Control by APM	<i>NO</i> <i>Yes</i>	System BIOS will ignore APM when Power Management is enabled. System BIOS will wait for APM' s prompt before entering any PM mode e.g. Standby or Suspend.
• Video Off After	<i>N/A</i> <i>Suspend</i> <i>Standby</i>	System BIOS will never turn off the screen. Screen blanks after the system enters suspend mode. Screen blanks after the system enters standby mode.
• Video Off Method	<i>Doze</i> <i>Blank Screen</i> <i>V / H SYNC + Blank</i> <i>DPMS</i>	Screen blanks after the system enters Doze mode. The system BIOS will only blank off the screen when disabling video. In addition to Blank Screen, BIOS will also turn off the V-SYNC & H - SYNC signals from VGA cards to monitor. This function is enabled only for the VGA card supporting DPMS.



• Soft-off by PWRBTN	<i>Instant-off</i>	The system will power off immediately once the power button is pressed.
	<i>Delay 4 Sec</i>	The system will not power off until the power button has been pressed continuously for more than 4 seconds.
• Modem Use IRQ	<i>3,5,7,9,10,11 NA</i>	Special Wake-up event for Modem.
• Wake Up Events	<i>Press Enter</i>	set the following items.
• VGA	<i>on</i>	VGA active reloads global timer.
• LPT&COM	<i>Off</i>	VGA active has no influence to global timer.
• HDD&FDD	<i>LPT/COM</i>	Set the options of these items to reload global timer.
• PCI/master	<i>Off/On on/off</i>	
• Poweron by PCI card	<i>Disable Enable</i>	Disable power-on by PCI card. Enable power-on by PCI card.
• Wake up On by Ring/ LAN	<i>Enabled</i>	Allows the system to be powered on when a ring indicator signal comes up to UART1 or UART2 from an external modem or comes up to WOM header from an internal modem card, or when a remote wake up signal comes up to the WOL header from LAN adapter.
	<i>Disabled</i>	Does not allow wake up on LAN or wake up from internal/external modem.
• Resume by Alarm	<i>Enabled</i>	RTC alarm can be used to generate a wake event to power up the system which is in power-off status. You can set any date or any time to power up the system.
	<i>Disabled</i>	RTC has no alarm function.
• IRQs Activity Monitoring	<i>Press Enter</i>	Reloads global timer.



PNP/PCI Configuration Setup

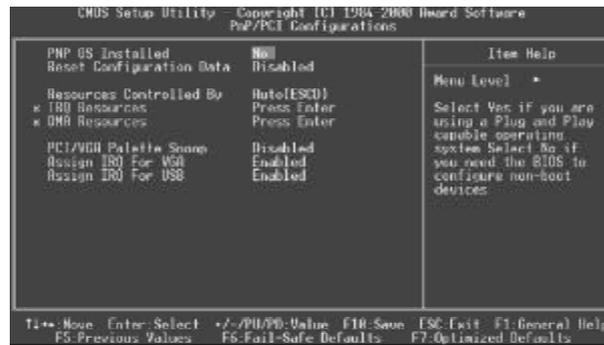


Figure-7 PNP/PCI Configuration Setup Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
● PNP OS Installed	Yes No	Device resources assigned by PnP OS. Device resources assigned by BIOS.
● Reset Configuration Data	Enabled Disabled	The system BIOS will reset configuration data once then automatically set this item as disabled. Disables the configuration data function.
● Resources Controlled By	Manual Auto	Assigns the system resources (IRQ and DMA) manually . Assigns system resources (IRQ and DMA) automatically by BIOS.
● PCI/VGA Palette Snoop	Enabled Disabled	Enabled PCI/VGA Palette Snoop. Disabled PCI/VGA Palette Snoop.
● Assign IRQ For VGA	Enabled Disabled	Assigns the needed IRQ for the VGA card. Does not assign an IRQ for the VGA card, in order to release the IRQ.
● Assign IRQ For USB	Enabled Disabled	Assigns an IRQ for USB. If an USB device is used enables this item. Does not assign an IRQ for USB.
● IRQ-3~IRQ-15 assigned to	Legacy ISA PCI/ISA PnP	The specified IRQ-x will be assigned to ISA only. The specified IRQ-x will be assigned to ISA or PCI.
● DMA-0~DMA-7 assigned to	Legacy ISA PCI/ISA PnP	The specified DMA-x will be assigned to ISA only. The specified DMA-x will be assigned to ISA or PCI.
● PCI #2 Access #1 Retry	Enabled Disabled	Enables PCI #2 Access #1 Retry. Disables PCI #2 Access #1 Retry.



Integrated Peripherals

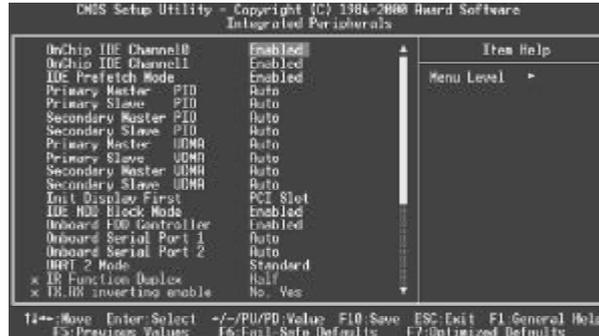


Figure-8 Integrated Peripherals Menu

The following indicates the options for each item and describes their meaning.

<u>Item</u>	<u>Option</u>	<u>Description</u>
• OnChip IDE channel 0/1	<i>Enabled</i> <i>Disabled</i>	Enables OnChip IDE First/Second Channel. Disables OnChip IDE First/Second Channel.
• IDE Prefetch/Mode	<i>Enabled</i> <i>Disabled</i>	Enables IDE Prefetch Mode. Disables IDE Prefetch Mode.
• IDE Primary/ Secondary Master/Slave PIO	<i>Mode 0 - 4</i> <i>Auto</i>	Defines the IDE primary/secondary master/ slave PIO mode. The IDE PIO mode is defined by auto -detection.
• IDE Primary/ Secondary Master/Slave UDMA	<i>Auto</i> <i>Disabled</i>	Ultra DMA mode will be enabled if an ultra DMA device is detected. Disables this function.
• Init Display First	<i>PCI SLOT</i> <i>AGP</i>	Initializes the PCI VGA first. If a PCI VGA card and an AGP card are installed together in the system, the one initialized first functions. Initializes the AGP first.
• IDE HDD Block Mode	<i>Enabled</i>	Allows IDE HDD to read/write several sectors at once.
• Onboard FDC Controller	<i>Enabled</i> <i>Disabled</i>	Onboard floppy disk controller is enabled. Onboard floppy disk controller is disabled.
• Onboard Serial Port 1/2	<i>3F8/IRQ4,</i> <i>2F8/IRQ3,</i> <i>3E8/IRQ4,</i> <i>2E8/IRQ3,</i> <i>Auto</i> <i>Disabled</i>	Defines the onboard serial port address and required interrupt number. Onboard serial port address and IRQ are automatically assigned Onboard serial port is disabled.



• UART 2 Mode	<i>Standard</i> <i>HPSIR</i> <i>ASK IR</i>	Defines Serial Port 2 as standard serial port. Supports IRD mode. Supports SHARP ASK-IR protocol with maximum baud rate up to 57600bps.
• Onboard Parallel Port	<i>378/IRQ7,</i> <i>278/IRQ5,</i> <i>3BC/IRQ7</i> <i>Disabled</i>	Defines onboard parallel port address and IRQ channel. Onboard parallel port is disabled.
• Parallel Port Mode	<i>SPP</i> <i>EPP</i> <i>ECP,</i> <i>ECP+EPP</i>	Defines the parallel port mode as Standard Parallel Port (SPP), Enhanced Parallel Port (EPP), or Extended Capabilities Port (ECP).
• Onboard Legacy Audio	<i>Enabled</i> <i>Disabled</i>	the following item according as onboard audio to set
• Sound Blaster	<i>Enabled</i> <i>Disabled</i>	Enabled Sound Blaster. Disabled Sound Blaster.
• SB I/O Base Address	<i>220H/240H</i> <i>260H/280H</i>	Define SB I/O Base Address.
• SB IRQ Select	<i>DMA0~DMA3</i> <i>260H/280H</i>	Select SB IRQ.
• SB DMA Select	<i>IRQ5~10</i>	Select SB DMA .
• MPU-401	<i>Enabled</i> <i>Disabled</i>	Enable MPU-401 Disable MPU-401
• MPU-401 I/O Address	<i>310/313H~</i> <i>320-323H</i> <i>Disabled</i>	Define MPU-401 I/O address.
• Game port (200-207H)	<i>Enabled</i> <i>Disabled</i>	Enable game port. Disable game port.



PC Health Status

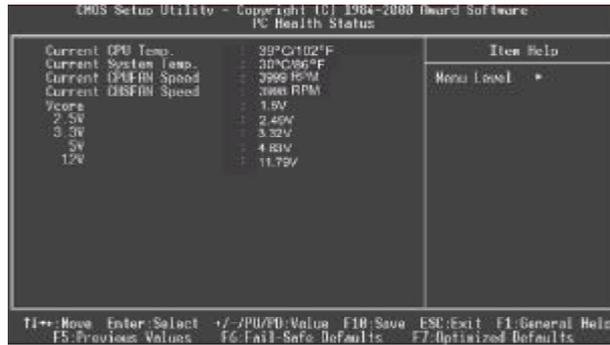


Figure-9 System Monitor Menu

The following describes the meaning of each item.

<u>Item</u>	<u>Current Data Shown</u>	<u>Description</u>
• Current CPU Temp	39°C/102°C	Temperature of the CPU core.
• Current System Temp	30°C/ 86°F	Temperature inside the chassis.
• Current CPUFAN Speed	3999RPM	RPM(Revolution Per Minute) speed of fan connected to the fan header CPUFAN/ CHSFAN. Fan speed value is based on an assumption that tachometer signal is two pulses per revolution; In other cases, you should regard it relatively.
• Current CHSFAN Speed	3998RPM	
• Vcore	1.5V	Displays current Voltage values including all significant voltages of the mainboard. +3.3V, +2.5V, +12V and 5V are voltages from the ATX power supply, Vcore Voltage is the CPU core voltage from the on board switching power supply.
2.5V	2.49	
3.3V	3.32V	
5V	4.83V	
12V	11.79V	
12V	11.79V	



Supervisor/ User Password

When this function is selected, the following message appears 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 typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection.

To disable password, just press <Enter> when you are prompted to enter password. A message will confirm the password being disabled. Once the password is disabled, the system will boot and you can enter BIOS Setup freely.

PASSWORD DISABLED

If you have selected "**System**" in "Security Option" of "BIOS Features Setup" menu, you will be prompted for the password every time the system reboots or any time you try to enter BIOS Setup.

If you have selected "**Setup**" at "Security Option" from "BIOS Features Setup" menu, you will be prompted for the password only when you enter BIOS Setup.

Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering "CMOS Setup" to modify all settings. Also you can use User Password when booting the system or entering "CMOS Setup" but can not modify any setting if Supervisor Password is enabled.



IDE HDD Auto Detection

The Enhanced IDE features are included in all Award BIOS. Below is a brief description of these features.

ROM PCI/ISA BIOS (2A69KQ10) CMOS SETUP UTILITY AWARD SOFTWARE, INC.							
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR MODE
Primary Master:							
Select Primary Master Option (N=Skip): N							
OPTION	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
2(Y)	541	525	32	0	1049	67	LBA
1	541	1050	16	65535	1049	63	NORMAL
3	541	525	32	65535	1049	63	LARG
Note: Some OSes (like SCO-UNIX) must use "NORMAL" for installation							
ESC: Skip							

Figure-11 IDE HDD Auto Detection Menu

1. Setup Changes

With auto-detection

- BIOS setup will display all possible modes supported by the HDD including NORMAL, LBA and LARGE.
- If HDD does not support LBA modes, no "LBA" option will be shown.
- If number of physical cylinder is less than or equal to 1024, "LARGE" option may not be shown.
- Users can select their appropriate mode .

With Standard CMOS Setup

	CYLS	HEADS	PRECOMP	LAND	SECTOR	MODE
						ZONE
Drive C: User(516MB)	1120	16	65535	1119	59	Normal
Drive D: None(203MB)	684	16	65535	685	38	-----

When HDD type is set as "user", the "MODE" option will be available for users to select their own HDD mode.



2. HDD Modes

The Award BIOS supports 3 HDD modes: NORMAL, LBA and LARGE.

NORMAL

Generic access mode in which neither the BIOS nor the IDE controller will make any transformation during accessing. The maximum number of cylinders, heads and sectors for NORMAL mode are 1024,16 and 63.

If the user sets his HDD to NORMAL mode, the maximum accessible HDD size will be 528 megabytes even though its physical size may be greater than that.

LBA (Logical Block Addressing) mode

A new HDD accessing method to overcome the 528 Megabyte bottleneck. The number of cylinders, heads and sectors shown in setup may not be the number physically contained in the HDD.

During HDD accessing, the IDE controller will transform the logical address described by sector, head and cylinder number into its own physical address inside the HDD.

LARGE mode

Some IDE HDDs contain more than 1024 cylinder without LBA support (in some cases, users do not want LBA). The Award BIOS provides another alternative to support these kinds of HDD.

BIOS tricks DOS (or other OS) into recognizing the number of cylinders is less than 1024 by dividing it by 2. At the same time, the number of heads is multiplied by 2. A reverse transformation process will be made inside INT13h in order to access the right HDD address.

If using Auto detect, the BIOS will automatically detect the IDE hard disk mode and set it as one of the three modes.

3. Remark

To support LBA or LARGE mode of HDDs, there must be some softwares involved which are located in Award HDD Service Routine(INT13h).It may fail to access a HDD with LBA (LARGE) mode selected if you are running under an Operating System which replaces the whole INT 13h.

Boot with BIOS defaults

If you have made all the changes to CMOS values and the system can not boot with the CMOS values selected in setup, clear CMOS after power-down, then power on again. System will boot with BIOS default settings.



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PC-cillin 98

New viruses are appearing frequently; the chance of your PC being infected increases; antivirus softwares are becoming a must. PC-cillin 98 offers you full-time active virus protection as well as manual scans, plus virus clean capability. Keeping up to date on the latest threats and updating significant files are crucial in keeping antivirus software effective. PC-cillin 98 provides Free Virus Pattern File Updates from the Trend Micro Website:

<http://www.trend.com/download/pattern.htm> or
<http://www.antivirus.com/download/pattern.htm>.

Installation of PC-cillin 98

For Windows 95/98 English version, run Setup.exe for installation from the utility CD directory \Pccillin\Win9x.

For Windows 95/98 Chinese version, run Setup.exe for installation from the utility CD directory \Pccillin\PWin9x.

For Windows NT 4.0, run Setup.exe for installation from the utility CD directory \Pccillin\WinNT4.0.

S/N is PN EF-9991-6558-5857-5535.

QDI ManageEasy V2.0

It is well known that guaranteeing the computer's security and reliability is essential. Especially today, effectively managing and monitoring the computer's hardware is even more important; because processing and exchanging critical data through computer and network are happening everyday.

Moving with the computer's development, the system of the computer will become more and more complex; at the same time, the control computer's hardware will be strengthened. Today, it is possible to monitor and manage your complex hardware from Windows 9X and Windows NT. QDI ManageEasy is a system tool, a bridge between the complex hardware and OS, used to access hardware status and to execute control functions. It supports stronger functions for Windows 9X and Windows NT. These functions enables you to view more than one hundred of the basic information about the system and monitor some key reference data concerning computer health in real time. QDI ManageEasy also helps you to use remote access and control computers in your local area network. With QDI ManageEasy, you can improve your management level.

Installation of QDI ManageEasy V2.0

Run Setup.exe from the utility CD directory \QME2 to install the QDI ManageEasy V2.0.

The QDI ManageEasy Setup Wizard will guide you through the installation process.

For detailed information on how to use QDI ManageEasy V2.0, please refer to the QDI ManageEasy V2.0 online help.