



## 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.
Other Memory	This is the memory that can be used for different applications. Shadow RAM is most used in this area.
Total Memory	Total memory of the system equals the sum of the above memory.



## SpeedEasy CPU Setup

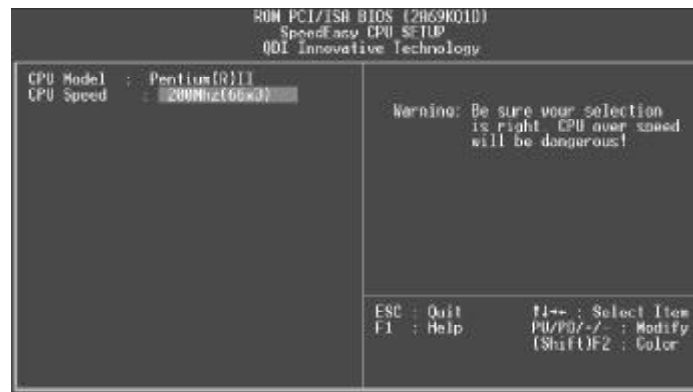


Figure-3 SpeedEasy CPU Setup

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• CPU Model		BIOS automatically detects the CPU model, therefore this item is shown only. It could be Pentium(R)II or Intel (R) Celeron(TM), depending on the processor chosen.
• CPU Speed	<i>SpeedEasy</i>	CPU frequency should be set according to the CPU type. For Celeron™ or Pentium®II (66MHz front-side bus) processors, you can choose from 200MHz (66X3), 233MHz(66X3.5), 266MHz (66x4), 300MHz(66X4.5), or 333MHz (66X5). For Pentium®II processors with 100MHz front-side bus, you can select from 300MHz(100X3), 350MHz (100X3.5), 400MHz (100X4), 450MHz(100X4.5), or 500MHz(100X5).
	<i>Jumper Emulation</i>	This item is only for users who understand all the CPU parameters, i.e. System Bus Frequency '100MHz / 66MHz' and multiplication of Processor Core Frequency to System Bus frequency " x2.5, x3, x3.5, x4, x4.5, x5, x5.5, x6, x6.5, x7,x7.5, x8." .

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



## 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 On Guard	<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.
	<i>Disabled</i>	Invalidates this function.
• CPU L1/L2 Cache	<i>Enabled</i>	Enables CPU internal Level1/Level2 cache.
	<i>Disabled</i>	Disables CPU internal Level1/Level2 cache.
• CPU L2 Cache ECC	<i>Enabled</i>	Enables CPU L2 Cache ECC (Error Checking and Correction) function.
	<i>Disabled</i>	Disables CPU L2 Cache ECC function.
• Processor Number Feature	<i>Enabled</i>	Pentium®III Processor Number can be readable.
	<i>Disabled</i>	Pentium®III Processor Number can be unreadable.
• Quick Power On Self Test	<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.
	<i>Disabled</i>	Normal POST.
• Boot From LAN First	<i>Enabled</i>	Boot from LAN is ahead of any boot sequence selection (LAN Adapter must support this function).
	<i>Disabled</i>	Does not boot from LAN first.
• Boot Sequence	<i>C,A,SCSI,... C,CDROM,A LS/ZIP, C</i>	Any search sequency can be chosen for booting



• Swap Floppy Drive	<i>Enabled</i>	Exchanges the assignment of A&B floppy drives.
	<i>Disabled</i>	The assignment of A&B floppy drives are normal.
• Boot Up Numlock Status	<i>On</i>	Keypad is used as number keys.
	<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.
• Password Setting	<i>System</i>	The system will not boot and access to BIOS Setup will be denied if the correct password is not entered when prompted.
	<i>Setup</i>	The system will boot up, but access to BIOS Setup will be denied if the correct password is not entered when prompted.
• 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.
• Show Bootup Logo	<i>Enabled</i>	Enables the logo when system boots up
	<i>Disabled</i>	Logo will not be shown when system boots up.
• Flash Write Protect	<i>Enabled</i>	Does not allow you to upgrade the BIOS. 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).
	<i>Disabled</i>	Disabling this item allows you to upgrade the BIOS.



## Chipset Features Setup



Figure-5 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>
• SDRAM CAS Latency Time	2	Defines the CLT timing parameter of SDRAM. Latency Time=2x system clocks.
	3	Latency Time=3x system clocks.
• SDRAM Percharge Control	Enabled	Default setting is suggested.
	Disabled	
• DRAM ECC Select	ECC	Provides ECC (Error Checking and Correction) function.
	Non-ECC	Disables ECC function.
• Video BIOS Cacheable	Enabled	Beside conventional memory, video BIOS area is also cacheable.
	Disabled	Video BIOS area is not cacheable.
• Video RAM Cacheable	Enabled	Besides conventional memory, video BIOS area is also cacheable.
	Disabled	Video BIOS area is not cacheable.
• 8 Bit I / O Recovery Time	1~ 8	Defines the ISA Bus 8 bit I/O operating recovery time.
	NA	8 bit I/O recovery time does not exist.
• 16 Bit I / O Recovery Time	1~ 4	Defines the ISA Bus 16 bit I/O operating recovery time.
	NA	16 bit I/O recovery time does not exist.
• Memory hole at 15M-16M	Enabled	Memory hole at 15-16M is reserved for expanded ISA card
	Disabled	Does not set this memory hole.



- |                            |                                   |  |
|----------------------------|-----------------------------------|--|
| • Passive Release          | <i>Enabled</i><br><i>Disabled</i> | Default setting is suggested.  |
| • Delayed Transaction      | <i>Enabled</i><br><i>Disabled</i> | Default setting is suggested.  |
| • AGP Aperture Size (MB)   | 4~256                             | Sets the effective size of the Graphics Aperture to be used in the particular PAC Configuration. |
| • Clock Spread Spectrum    | <i>Enabled</i><br><i>Disabled</i> | Enables Clock Spread Spectrum to reduce EMI.<br>Disables Clock Spread Spectrum.                  |
| • Close Empty DIMM/PCI Clk | <i>Enabled</i><br><i>Disabled</i> | Closes empty DIMM clock or PCI clock to reduce EMI.<br>Does not close empty DIMM or PCI clock.   |



## Power Management Setup

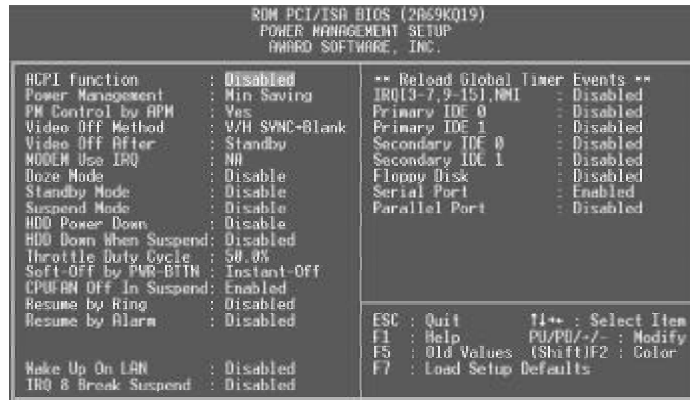


Figure-6 Power Management Setup Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• ACPI function	<i>Disabled</i>	Invalidates ACPI function.
	<i>Enabled</i>	Validates ACPI function.
• Power Management	<i>Disabled</i>	Global Power Management (PM) will be disabled.
	<i>User Define</i>	Users can configure their own Power Management Timer.
	<i>Min Saving</i>	Pre - defined timer values are used. All timers are in their MAX values.
	<i>Max Saving</i>	Pre - defined timer values are used. All timers are in their MIN values.
• PM Control by APM	No	System BIOS will ignore APM when Power Management is enabled.
	Yes	System BIOS will wait for APM' s prompt before entering any PM mode e.g. Standby or Suspend. <b>Note: If APM is installed, and there is a task running, even when the timer is time out, the APM will not prompt the BIOS to put the system into any power saving mode. But if APM is not installed, this option has no effect.</b>
• Video Off Method	<i>Blank Screen</i>	The system BIOS will only blank off the screen when disabling video.
	<i>V / H SYNC +</i>	In addition to Blank Screen, BIOS will also turn off the V-SYNC & H - SYNC signals from VGA cards to monitor.



	<b>DPMS</b>	This function is enabled only for the VGA card supporting DPMS. <b>Note: When the green monitor detects the V/H-SYNC signals, the electron gun will be turned off.</b>
• Video Off After	<i>N/A</i>	System BIOS never turns off the screen.
	<i>Suspend</i>	Screen blanks after the system enters Suspend mode.
	<i>Standby</i>	Screen blanks after the system enters Standby mode.
	<i>Doze</i>	Screen blanks after the system enters Doze mode.
• Doze mode	<i>Disabled</i>	The system never enters Doze mode.
	<i>1Min ~ 1 Hr</i>	Defines the continuous idle time before the system enters Doze mode. If any items defined in 'Reload Global Timer Events' are On and activated, the system will be woken up.
• Standby Mode	<i>Disabled 1 Min ~ 1Hr</i>	The system never enters Standby mode. Defines the continuous idle time before the system enters Standby mode. If any items defined in 'Reload Global Timer Events' are On and activated, the system will be woken up.
• Suspend Mode	<i>Disabled Min ~ 1Hr</i>	The system never enters Suspend mode. Defines the continuous idle time before the system enters Suspend mode. If any items defined in 'Reload Global Timer Events' are On and activated, the system will be woken up.
• HDD Power Down	<i>Disabled 1 ~ 15 Min</i>	HDD's motor will not be off. Defines the continuous HDD idle time before the HDD enters the power saving mode (motor off).
• HDD Down When suspend	<i>Enabled</i>	HDD's motor will be off when the system enters suspend mode.
• Throttle Duty Cycle	<i>Disabled</i>	HDD's motor will no be off.
	<i>12.5%</i>	Selects the duty cycle of the STPCLK# signal , slowing down the CPU speed when the system enters the green mode.
	<i>25%</i>	
	<i>37.5%</i>	
	<i>50 %</i>	
	<i>62.5%</i>	
	<i>75%</i>	
	<i>87.5%</i>	
• PCI/VGA Act -Monitor	<i>Enabled</i>	VGA active reloads global timer.
	<i>Disabled</i>	VGA active has no influence to global timer.
• Soft-Off by PWR-BTTN	<i>Instant-Off</i>	The system will power off immediately once the 'Power' button is pressed.
	<i>Delay 4 Secs</i>	The system will not power off until the 'Power' button is pressed continuously for more than 4 seconds.





## Award BIOS Description

• CPUFAN Off In Suspend	<i>Enabled</i>	CPU fan will be automatically turned off when the system enters suspend mode.
	<i>Disabled</i>	CPU fan remains on when the system enters suspend mode.
• Resume by Ring	<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.
	<i>Disabled</i>	Does not allow Ring Power-On.
• 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, any time to power up the system.
	<i>Disabled</i>	RTC has no alarm function.
• Wake Up On LAN	<i>Enabled</i>	Allows the system to be powered on 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.
• IRQ8 Break suspend	<i>Enabled</i>	Generates a clock event.
• IRQ [3-7, 9-15], NMI	<i>Disabled</i>	Does not generate a clock event.
	<i>Enabled</i>	Reloads global timer.
.....	<i>Disabled</i>	Does not influence the global timer.
Parallel Port		



## PNP/PCI Configuration Setup

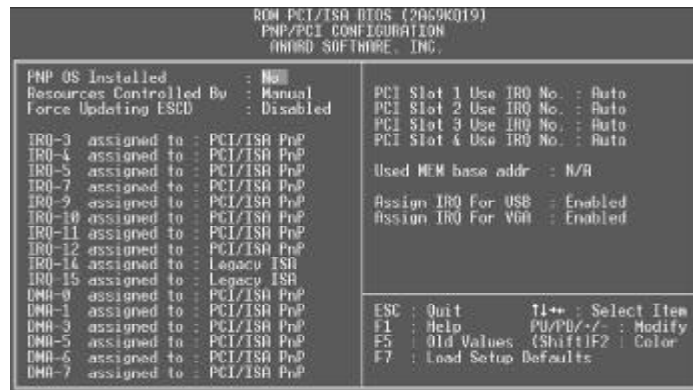


Figure-7 PNP/PCI Configuration Setup Menu

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	Device resources assigned by PnP OS.
	No	Device resources assigned by BIOS.
• Resources Controlled By	Manual	Assigns the system resources (IRQ and DMA) manually.
	Auto	Assigns system resources (IRQ and DMA) automatically by BIOS.
• Force Updating ESCD	Enabled	The system BIOS will force updating ESCD once, then automatically set this item as Disabled.
	Disabled	Disables the forced update ESCD function.
• IRQ-3~IRQ-15 assigned to	Legacy ISA	The specified IRQ-x will be assigned to ISA only.
	PCI/ISA PnP	The specified IRQ-x will be assigned to ISA or PCI.
• DMA-0~DMA-7 assigned to	Legacy ISA	The specified DMA-x will be assigned to ISA only.
	PCI/ISA PnP	The specified DMA-x will be assigned to ISA or PCI.
• Slot 1/2/3/4 use IRQ No.	Auto, 3, 4, 5, 7, 9, 10, 11, 12, 14, 15	Assigns an IRQ for slot1/2/3/4 manually or automatically.
• Used MEM base addr	C800/8 ~ 64K	Claims a memory space to be occupied by legacy ISA card. The memory address and the memory size (8/16/32/64K) can be chosen from the options.
	N/A	Invalidates this feature.



## Award BIOS Description

- |                      |                 |   |
|----------------------|-----------------|---|
| • Assign IRQ for USB | <i>Enabled</i>  | Assigns an IRQ for USB. If an USB device is used, enable this item.                             |
|                      | <i>Disabled</i> | Does not assign an IRQ for USB. If no USB device used, disabling this item can release the IRQ. |
| • Assign IRQ for VGA | <i>Enabled</i>  | Assigns the needed IRQ for the VGA Card.  |
|                      | <i>Disabled</i> | Does not assign an IRQ for the VGA card, in order to release the IRQ.                           |



## 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>
• IDE HDD Block Mode	<i>Enabled</i>	Allows IDE HDD to read/write several sectors at once.
	<i>Disabled</i>	IDE HDD only reads/writes a sector once.
• IDE Primary/ Secondary Master/Slave PIO	<i>Mode 0 - 4</i>	Defines the IDE primary/secondary master/ slave PIO mode.
	<i>Auto</i>	The IDE PIO mode is defined by auto -detection.
• IDE Primary/ Secondary Master/Slave UDMA	<i>Auto</i>	Ultra DMA mode will be enabled if ultra DMA device is detected.
	<i>Disabled</i>	Disables this function.
• On-chip Primary/Secondary PCI IDE	<i>Enabled</i>	On-chip primary/secondary PCI IDE port is enabled.
	<i>Disabled</i>	On-chip primary/secondary PCI IDE port is disabled.
• USB Keyboard Support	<i>Enabled</i>	USB Keyboard Support is enabled.
	<i>Disabled</i>	USB Keyboard Support is disabled.
• Init Display First	<i>PCI SLOT</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.
	<i>AGP</i>	Initializes the AGP first.
• POWER ON Function	<i>BUTTON ONLY</i>	Use the power button to power up the system.
	<i>Password</i>	Enables the Keyboard Password Power-on function and disables the power button's power-on function. Other than choosing this option, the password should be entered to implement this function.



		<p><b>Note: 1. If this option(Password) is chosen, the jumper JP2 must be set as PIN1&amp;PIN 2 closed, or this will prevent you from power-ing up your system.</b></p> <p><b>2. The keyboard password must be set no more than 6 characters and can only use the numbers and alphabetic letters. The pass-word will always remain unless you clear CMOS or reset it .</b></p>
• KBC input clock	6MHz, 8MHz 12MHz, 16MHz	PS/2 keyboard input clock.
• Onboard FDC Controller	Enabled Disabled	Onboard floppy disk controller is enabled. Onboard floppy disk controller is disabled.
• Onboard Serial 1/2	3F8/IRQ4, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3, Auto	Defines the onboard serial port address and required interrupt number.
• Uart 2 Mode	Disabled Normal ASKIR  IrDA	Onboard serial port address and IRQ are automatically assigned. Onboard serial port is disabled. Defines Serial Port 2 as standard serial port. Supports SHARP ASK-IR protocol with maximum baud rate up to 57600bps. Supports IrDA version1.0 SIR protocol with maximum baud rate up to 115.2Kbps.
• Onboard Parallel Port	378/IRQ7, 278/IRQ5, 3BC/IRQ7 Disabled	Defines onboard parallel port address and IRQ channel.
• Parallel Port Mode	SPP EPP ECP, ECP+EPP	Onboard parallel port is disabled. Defines the parallel port mode as Standard Parallel Port (SPP), Enhanced Parallel Port (EPP), or Extended Capabilities Port (ECP).
• PWRON After PWR-Fail	Off  On  Former-Sts	The system resumes OFF when the AC power supply powers on.  The system will be powered up when the AC power supply powers on.  Whatever the system status is, before the AC power supply powers down, the system resumes in the previous status (ON/OFF) when the AC power supply powers on.



## System Monitor

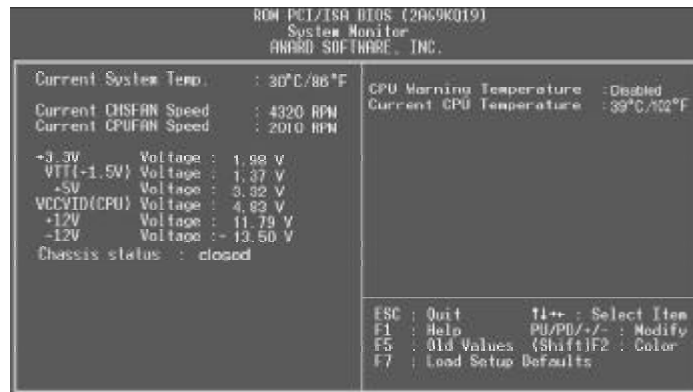


Figure-9 System Monitor Menu

The following describes the meaning of each item.

<u>Item</u>	<u>Current Data Shown</u>	<u>Description</u>
• Current System Temp.	30°C/ 86°C	The temperature inside the chassis.
• Current CHSFAN Speed	2010RPM	RPM( Revolution Per Minute) speed of fan connected to the fan header CPUFAN or 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 CPUFAN Speed	4320RPM	
• + 3.3V Voltage	1.98V	Displays current Voltage values including all the most important voltages of the mainboard.
• VTT (+1.5V) Voltage,	1.37V	
• + 5V	4.83V	+3.3V, +5V, +12V, -12V, are voltages from the ATX power supply, VTT (+1.5)
• VCCVID(CPU) Voltage		Voltage is GTL Termination Voltage from the on-board regulator, and VCCVID (CPU)
• +12V	11.79V	Voltage is CPU Core Voltage from the on board switching Power Supply.
• -12V	-13.50V	
• Chassis Status:	Closed	Indicates status of chassis is closed.
	Opened	Indicates status of chassis is opened.
• CPU Warning Temperature	Enabled	Displays CPU warnign temperature.
	Disabled	<b>Note: if no MAX1617 chip on mainboard, this item will no be displayed</b>
• Current CPU Temperature		Temperature of the CPU core.



## SecurityEasy Setup



Figure-10 SecurityEasy Setup Menu

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

<u>Item</u>	<u>Current</u> <u>Data Shown</u>	<u>Description</u>
• Lock Function Select	<i>Enable</i> <i>Disable</i>	Enables the LOCK function. The system never enters LOCK mode.
• SecurityEasy Password	<i>Enter</i>	The SecurityEasy password is the only option to exit LOCK mode. When you select this function. The following message 'ENTER PASSWORD' appears at the center of the screen to assist you in creating a password. Type the SecurityEasy Password no more than six characters, then 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>.
• Keyboard Inactive Timer	<i>Disable</i> <i>1Min~</i> <i>1 Hour</i>	The system will not enter the LOCK mode due to the Keyboard Inactive Timer. Set the continuous idle time of the keyboard before the system enters the LOCK mode.
• Video Blanking Control	<i>Enable</i> <i>Disable</i>	Video is blank in the LOCK mode. Video is normal in the LOCK mode.

Note: See also Chapter 3