



## SpeedEasy CPU Setup

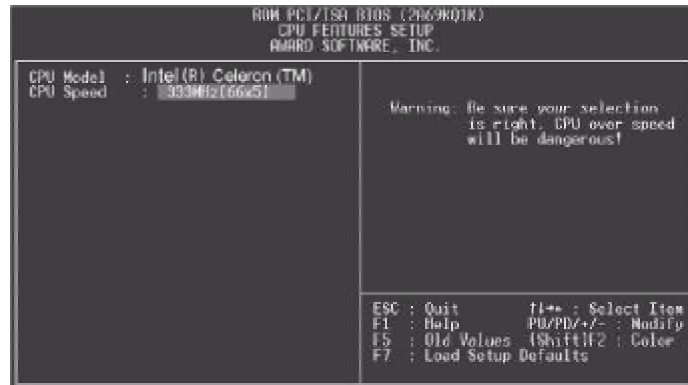


Figure-3 SpeedEasy CPU Setup

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)</i>	BIOS can automatically detect the CPU model, therefore this item is shown only.
	<i>Celeron(TM)</i>	
• CPU Speed	<i>200MHz</i>	CPU frequency should be set according to the CPU type. For processors with 66MHz front-side bus you can choose from 200MHz (66X3), 233MHz(66X3.5), 266MHz (66x4), 300MHz(66X4.5), 333MHz (66X5), 366MHz(66x5.5), 400MHz(66x6), 433MHz(66x6.5), 466(66x7), or 500MHz(66x7.5). For processors with 100MHz front-side bus, you can select from 300MHz(100X3), 350MHz (100X3.5), 400MHz(100X4), 450MHz(100X4.5), or 500MHz(100X5).
	<i>(66x3)</i>	
	<i>.....</i>	
	<i>Jumper</i>	This item is only for users who understand all the CPU parameters, i.e. Bus clock and Multiplier.
	<i>Emulation</i>	Users are provided with CPU overclock feature through "Jumper Emulation". The host bus speed can be set as 66/68/75/83/100/103/112MHz. The multiplier can be chosen from 2, 2.5, 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 radio locked processor, only bus ratio unlocked processor.

### Warning:

Do not set CPU frequency higher than its working frequency. If you do, we will not be responsible for any damages caused. Whether or not the system can be overclocked depends on the processor's capability. We do not guarantee the overclock system to be stable.



## BIOS Features Setup

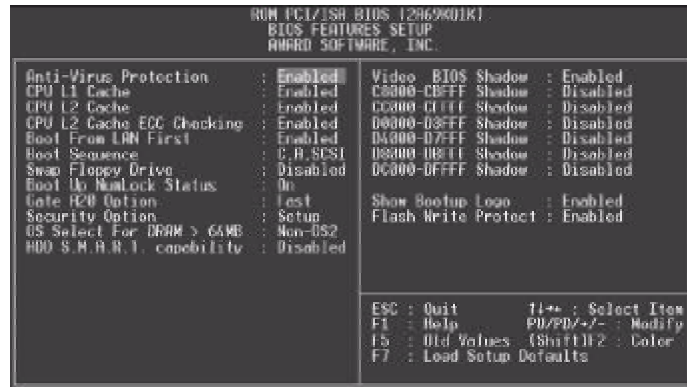


Figure-4 BIOS Features Setup Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• Anti-Virus Protection	<i>Enabled</i>	Activate automatically when the system boots up causing a warning message to appear when anything attempts to access the boot sector or hard disk partition table.
	<i>Disabled</i>	No warning message appears when anything attempts to access the boot sector or hard disk partition table. <b>Note: This function is available only for DOS and other OS that do not trap INT13.</b>
• 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 Checking	<i>Enabled</i>	Enables CPU L2 Cache ECC (Error Checking and Correction) function.
	<i>Disabled</i>	Disables CPU L2 Cache ECC function.
• 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 sequence 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.
• Security Option	<i>System</i>	The system will not boot and access to Setup will be denied if the correct password is not entered when prompted.
	<i>Setup</i>	The system will boot up, but access to 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.
• Video BIOS Shadow	<i>Disabled</i>	Invalidates this feature.
	<i>Enabled</i>	Video BIOS will be copied to RAM. Video Shadow will increase the video speed.
• C8000~CBFFF Shadow: DC000-DFFFF Shadow:	<i>Disabled</i>	Video shadow is disabled.
	<i>Enabled</i>	Optional ROM will be copied to RAM by 16K bytes per unit.
• Delay For HDD 0~15 (Secs):	<i>Disabled</i>	The shadow function is disabled.
• Show Bootup Logo	<i>0~15</i>	Sets the pre-delay time for hard disk to be accessed by the system.
	<i>Disabled</i>	Enables the logo when system boots up.
• Flash Write Protect	<i>Enabled</i>	Logo will not be shown when system boots up.
	<i>Disabled</i>	Disabling this item allows you to upgrade the BIOS.
	<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, set this item Enabled (default) when completed.



## Chipset Features Setup

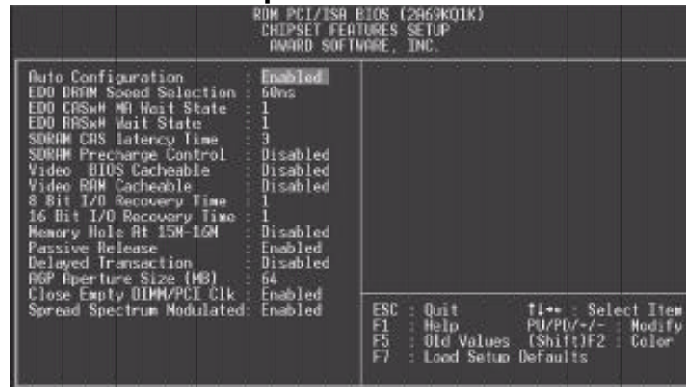


Figure-5 Chipset Features Setup Menu

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• Auto Configuration	<i>Enabled</i>	Automatically configures DRAM Timing according to the value of "DRAM Speed Selection."
	<i>Disabled</i>	Manually configures. <b>*Note: It is recommended that the "Enabled" option be chosen by common users.</b>
• EDO DRAM Speed Selection	50ns, 60ns	This item is of selected EDO DRAM read/write timing. Ensure your DIMMs are as fast as 50ns, otherwise 60ns should be selected.
• EDO CAS# MA Wait State	2	One additional wait state is inserted before the assertion of the first CAS# for page hit cycles. This allows one additional clock of MA setup time to CAS# for the lead off page hit cycle. Page miss and row miss timing are not affected by this bit.
	1	Without additional wait state.
	2	One additional wait state is inserted before RAS# is asserted for row misses. This provides one clock of additional MAX[13:0] setup time to RAS# assertion. This bit does not affect page misses since the MAX [13:0] line are setup several clocks in advance of RAS# assertion for page misses.
• SDRAM CAS Latency Time	1	Without additional wait state.
	2	Define the CLT timing parameter of SDRAM expressed in the bus speed. Latency Time=2 clocks
	3	Latency Time=3 clocks



- | • SDRAM Precharge Control    | <i>Enabled</i>  | Default setting is suggested.  |
|------------------------------|-----------------|--|
|                              | <i>Disabled</i> |  |
| • Video BIOS Cacheable       | <i>Enabled</i>  | Beside conventional memory, video BIOS area is also cacheable.                                   |
|                              | <i>Disabled</i> | Video BIOS area is not cacheable.  |
| • Video RAM Cacheable        | <i>Enabled</i>  | Beside conventional memory, video RAM area is also cacheable.                                    |
|                              | <i>Disabled</i> | Video RAM area is not cacheable.   |
| • 8 Bit I / O Recovery Time. | <i>1~ 8</i>     | Defines the ISA Bus 8 bit I/O operating recovery time.   |
|                              | <i>NA</i>       | 8 bit I/O recovery time does not exist.  |
| • 16 Bit I / O Recovery Time | <i>1~ 4</i>     | Defines the ISA Bus 16 bit I/O operating recovery time.  |
|                              | <i>NA</i>       | 16 bit I/O recovery time does not exist.   |
| • Memory Hole at 15m-16m     | <i>Enabled</i>  | Memory hole at 15-16m is reserved for expanded PCI card.   |
| • Passive Release            | <i>Enabled</i>  | Default setting is suggested.  |
|                              | <i>Disabled</i> |  |
| • Delayed Transaction        | <i>Enabled</i>  | Default setting is suggested.  |
|                              | <i>Disabled</i> |  |
| • AGP Aperture Size (MB)     | <i>4~256</i>    | Sets the effective size of the Graphics Aperture to be used in the particular PAC Configuration. |
| • Close Empty DIMM/PCI Clk   | <i>Enabled</i>  | Closes empty DIMM or PCI clock to reduce EMI.  |
|                              | <i>Disabled</i> | Does not close empty DIMM or PCI clock.  |
| • Spread Spectrum Modulated  | <i>Enabled</i>  | Enables Spread Spectrum Modulated to reduce EMI.   |
|                              | <i>Disabled</i> | Disables Spread Spectrum Modulated.  |



## Power Management Setup

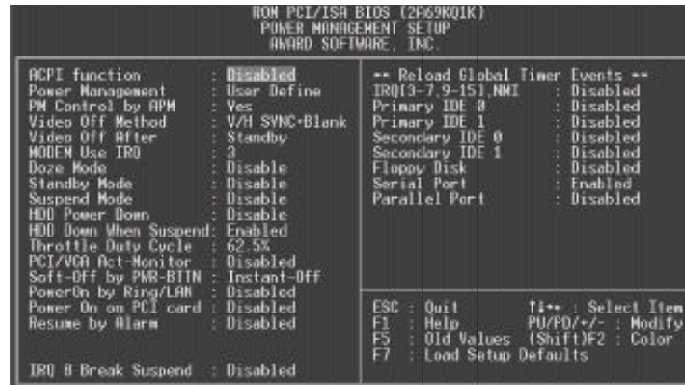


Figure-6 Power Management Setup Menu

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.
• PM Control by APM	No  Yes	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 Method	<i>Blank Screen</i>  <i>V / H SYNC + Blank</i>  <i>DPMS</i>	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.
• 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.
• Modem Use IRQ	<i>Doze</i> <i>3 ~11</i> <i>NA</i>	Screen blanks after the system enters Doze mode. Special Wake- up event for the Modem. Invalidates this feature.



• Doze Mode	<i>Disabled</i> <i>10Sec ~ 1 Hr</i>	The system never enters Doze mode. 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</i> <i>1 Min~ 1 Hr</i>	The system will never enter 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</i> <i>10Sec~ 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</i> <i>1~15 Min</i>	HDD's motor remains on. 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> <i>12.5%</i> <i>25%</i> <i>37.5%</i> <i>50 %</i> <i>62.5%</i> <i>75%</i>	HDD's motor remains on. Selects the duty cycle of the STPCLK# signal , slowing down the CPU speed when the system enters the green mode.
• PCI/VGA Act-Monitor	<i>Enabled</i>	VGA active reloads global timer.
• Soft-Off by PWR-BTTN	<i>Disabled</i> <i>Instant-Off</i> <i>Delay 4 Secs</i>	VGA active has no influence to global timer. The system will power off immediately once the "Power" button is pressed. The system will not power off until the "Power" button is pressed continuously for more than 4 seconds.
• PowerOn 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.
• Power On on PCI Card	<i>Enabled</i>	By setting jumper JP6 close and simultaneously enabling this option, you can use the PCI 2.2 specification compaliant PCI card to wake up the system, for example, a network card which supports wake-up on LAN function but without the WOL header.



	<i>Disabled</i>	The PCI2.2 specification compliant PCI card can not be used to wake up the system if disabling this option.
• 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.
• IRQ 8 Break Suspend	<i>Enabled</i>	Generates a clock event.
	<i>Disabled</i>	Does not generate a clock event.
• IRQ [3-7, 9-15], NMI	<i>Enabled</i>	Reloads global timer.
	<i>Disabled</i>	Does not influence the global timer.
.....		
Parallel Port		



## PNP/PCI Configuration Setup

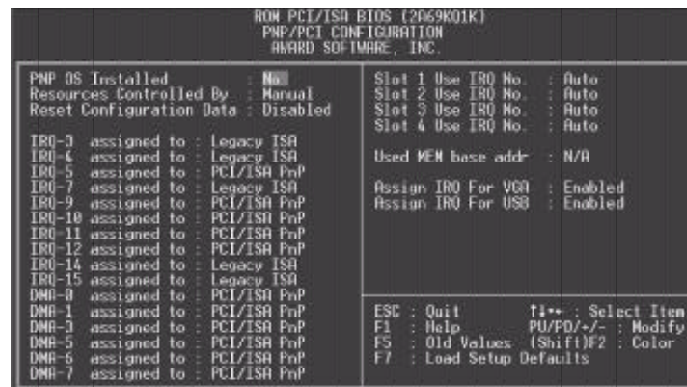


Figure-7 PNP/PCI Configuration Setup Menu

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 No	Device resources assigned by PnP OS. Device resources assigned by BIOS.
• Resources Controlled by	Manual Auto	Assigns the system resources (IRQ and DMA) manually. Assigns system resources (IRQ and DMA) automatically 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.
• 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 PNP 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 PNP ISA or PCI.
• PCI Slot 1/2/3/4 IRQ No.	Auto,3,4,5,7,9 10,11,12,14,15	Assigns an IRQ for PCI slot1/2/3/4 manually or automatically.
• Used MEM base address	C800/8~64K N/A	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. Invalidates this feature.
• Assign IRQ for VGA	Enabled Disabled	Assigns an IRQ for USB. If an USB device is used, enable this item. Does not assign an IRQ for USB. If USB device isn't used, disabling this item can release the IRQ.



- Assign IRQ for USB

*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.