



Memory Configuration

This mainboard provides three 168 pin 3.3V un-buffered DIMM sockets to support a flexible memory size ranging from 8MB/384MB for SDRAM or from 8MB/768MB for EDO memory. Both 66MHz/100MHz SDRAM and 66MHz EDO DIMMs are supported. The following set of rules allows for optimum configurations.

Rules for populating a 440BX memory array:

- Pentium II processors with 100MHz front-side bus should be paired only with 100MHz SDRAM. Processors with 66MHz front-side bus can be paired with either 66MHz or 100MHzSDRAM.
- Using the serial presence detect (SPD) data structure, programmed into an E²PROM on the DIMM, the BIOS can determine the SDRAM' s size and speed.
- The DRAM Timing register, which provides the DRAM speed grade control for the entire memory array, must be programmed to use the timing of the slowest DRAMs installed.
- Possible SDRAM DIMM memory sizes are 8MB, 16MB, 32MB, 64MB, 128MB in each DIMM socket.
- Possible EDO DIMM memory sizes are 8MB, 16MB, 32MB, 64MB, 128MB, 256MB in each DIMMsocket.



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Chapter 3

SecurityEasy

There are two ways to prevent unauthorized entry or use of the system:
System Password and SecurityEasy.

System Password

Set system password in the "PASSWORD SETTING" section of the BIOS, and set the "Password Setting" to **System** in the "BIOS FEATURES SETUP" section. You will be prompted for the password every time the system boots or any time you try to enter CMOS Setup. If the "Password Setting" is set as "Setup", you will be prompted for the password only when entering CMOS Setup.

SecurityEasy

The P6I440BX/BV provides additional SecurityEasy function to protect the system from unauthorized entry or use.

- Push once the button connected to the two-pin header SLEEP. If the lock function is disabled, this button is used as SLEEP button.
- When "Keyboard Inactive Timer" is counted to the preset value-from 1 minute to 1 hour.

In the Lock status, the power switch and reset buttons are unresponsive, PS/2 mouse is locked, and the Keyboard is locked except for the Administrative Password entering. You can preset the Video as blank in the LOCK status. The only way to exit the LOCK status is to enter the Administrative Password with the keyboard. This means if you set the Lock function as enabled, you must also set the Administrative Password.

Please read the notes below thoroughly.

Note 1: The Green function and the Lock function can not be enabled at the same time.

Note 2: If no Administrative Password has been set by users, the system will never enter the LOCK status.

Note 3: When entering the Administrative Password to exit the LOCK status, use the <Enter> key located on the alphabetic pad and not the <Enter> key located on the numericpad.

Note 5: See also chapter 4 "BIOS Description".



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Chapter 4

BIOS Description

Utility Support:

FLASH.EXE

This is a flash memory write/read utility which can be used for the purpose of updating your BIOS when necessary. Before doing so, please note:

- **We strongly recommend you only upgrade BIOS when encountering problems.**
- **Before upgrading your BIOS, review the description below to avoid making mistakes, resulting in a destroyed BIOS and a non-working system.**

When you are encountering problems, for example, you find your system doesn't support the new CPU which is released after our current motherboard, you may therefore update the BIOS.

Follow the steps exactly for a successful upgrade.

1. Create a bootable system floppy diskette, type Format A:/s from the DOS prompt under DOS6.xx or Windows 9x environment.
2. Copy FLASH.EXE from the directory \Utility on the QDI Motherboard Utility CD onto your new bootable diskette.
3. Download the updated BIOS file from the Website (<http://www.qdigrp.com>) Please be sure to download the suitable BIOS file for your motherboard.
4. Uncompress the file download, copy the BIOS file (xx.bin) onto the bootable diskette, and write down the checksum of this BIOS which is included in readme file.
5. Reboot the system from the bootable diskette which you have created.
6. Then run the FLASH utility at the A:\ prompt. During the process, the system will prompt: 'Do you want to save the BIOS(Y/N)'. If you type 'Y', the system will prompt for the BIOS name. The system will also display the checksum which should be exactly the same as the checksum you copy from the readme file. Don't turn off power or reset the system until the BIOS upgrade has been completed.

Concerning how to run the FLASH utility, please refer to the following descriptions:

Usage: FLASH [BIOSfile] [/c[<command...>]][/n]

FLASH [BIOSfile] [/g]

/c: Flashing memory will clear previous settings. Default allows settings to remain.

<command> function definition:

c: clear CMOS;

p: clear PnP;

d: clear DMI.



/n: programs BIOS without prompting. If this option is chosen:

Be sure your new BIOS is compatible with your MB. If not, the system will be damaged.

/g: Retrieves BIOS file from BIOS ROM.

Examples:

A:\FLASH.EXE BIOSfile.bin

A:\FLASH.EXE BIOSfile.bin /cdpc/n

A:\FLASH.EXE BIOSfile.bin /g

Note: FLASH utility runs incorrectly at Windows DOS prompt.



AWARD BIOS Description

Entering Setup

Power on the computer, when the following message briefly appears at the bottom of the screen during the POST (Power On Self Test), press key or simultaneously press the <Ctrl> + <Alt> + <Esc> keys, to enter the AWARD BIOS CMOS Setup Utility.

Press to enter SETUP

Once you have entered, the Main Menu (Figure 1) will appear on the screen. The main menu allows you to select from twelve setup functions and two exit choices. Use the arrow keys to select among the items and press the <Enter> key to accept or enter the sub-menu.



Note:The “System Monitor SETUP” item will not be displayed if there is no W83782D chip on the motherboard.

Load Setup Defaults

The Setup Defaults are common and efficient. It is recommended that users load the setup defaults first, then modify the needed configuration settings.

Standard CMOS Setup

The basic CMOS settings included in “Standard CMOS Setup” are Date, Time, Hard Disk Drive Types, Floppy Disk Drive Types, and VGA etc. Use the arrow keys to highlight the item, then use the <PgUp> or <PgDn> keys to select the value you want in each item.



```
ROM PCI/ISA BIOS (2A69KQ1D)
STANDARD CMOS SETUP
AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Sat, Jan 3 1998
Time (hh:mm:ss) : 5 : 30 : 55

HARD DISKS      TYPE  SIZE  CYLS HEAD PRECOMP LANDZ SECTOR  MODE
Primary Master  : Auto   0    0    0    0    0    0 Auto
Primary Slave   : Auto   0    0    0    0    0    0 Auto
Secondary Master : Auto   0    0    0    0    0    0 Auto
Secondary Slave  : Auto   0    0    0    0    0    0 Auto

Drive A : 1.44M, 3.5 in.
Drive B : None

Video : EGA/VGA
Halt On : All Errors

Base Memory: 640K
Extended Memory: 97280K
Other Memory: 384K
Total Memory: 98304K

ESC : Quit      ↑ ↓ + * : Select Item      PU/PD/+/- : Modify
F1 : Help      (Shift)F2 : Change Color
```

Hard Disk

Primary Master/Primary Slave/Secondary Master/Secondary Slave

The 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

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 error 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 the other errors.
All, But Diskette	The system boot will not stop for a disk error; but it will stop for all the other errors.
All, But Disk/Key	The system boot will not stop for a keyboard or disk error, but it will stop for all the other errors.

Memory

This category displays only what is determined by POST (Power On Self Test) of the BIOS

BaseMemory	The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.
ExtendedMemory	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. Most used for this area is Shadow RAM.
Total Memory	Total memory of the system equals the sum of the above memory.



SpeedEasy CPU Setup

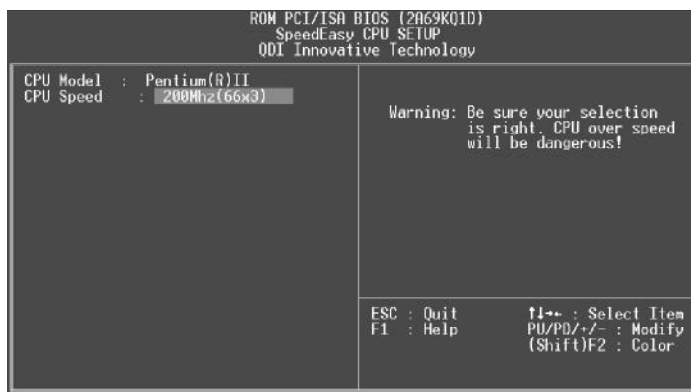


Figure-3 SpeedEasy CPU Setup

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

<u>Item</u>	<u>Option</u>	<u>Description</u>
• CPU Model		BIOS can automatically detect 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 “x3, x3.5, x4, x4.5, x5, x5.5” .

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

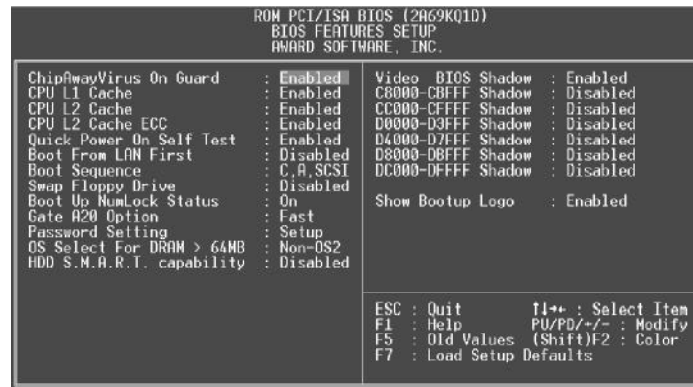


Figure-4 BIOS Features Setup Menu

The following indicates the options of 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.
• 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 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.
	<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.



Chipset Features Setup

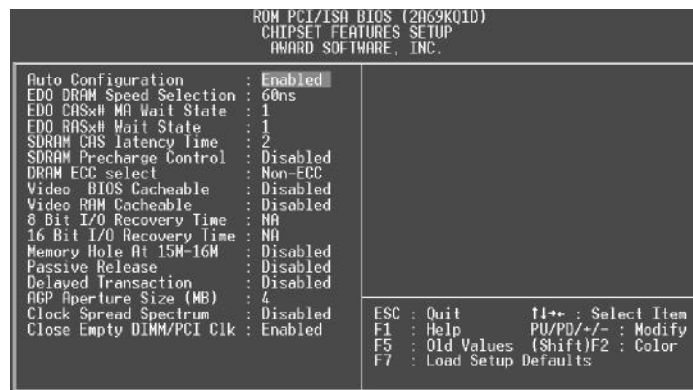


Figure-5 Chipset Features Setup Menu

The following indicates the options of 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. *Note: It is recommended that the "Enabled" option be chosen by common users.
• EDO DRAM Speed Selection	<i>50ns, 60ns</i>	This item is of selected EDO DRAM read/write timing. You must ensure that your DIMMs are as fast as 50ns, otherwise 60ns should be selected.
• EDO CAS# MA Wait State	<i>2</i>	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 the CAS# for the leadoff page hit cycle. Page miss and row miss timing are not affected by this bit.
	<i>1</i>	Without additional wait state.
• EDO RAS# Wait State	<i>2</i>	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] lines are setup several clocks in advance of RAS# assertion for page misses.
	<i>1</i>	Without additional wait state.



Award BIOS Description

• 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.
• 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.
• Passive Release	Enabled	Default setting is suggested.
	Disabled	
• Delayed Transaction	Enabled	Default setting is suggested.
	Disabled	
• 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	Enabled	Enables Clock Spread Spectrum to reduce EMI.
	Disabled	Disables Clock Spread Spectrum.
• Close Empty DIMM/PCI Clk	Enabled	Closes empty DIMM clock or PCI clock to reduce EMI.
	Disabled	Does not close empty DIMM or PCI clock.



Power Management Setup



Figure-6 Power Management Setup Menu

The following indicates the options of 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. Note: If APM is installed, and if 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.
• Video Off Method	<i>Blank Screen</i>	The system BIOS will only blank off the screen when disabling video.



	V / H SYNC +	In addition to Blank Screen, BIOS will also turn off the V-SYNC & H - SYNC signals from VGA cards to monitor.
	DPMS	This function is enabled only for the VGA card supporting DPMS. Note: When the green monitor detects the V/H-SYNC signals, the electron gun will be turned off.
• Video Off After	<i>N/A</i>	System BIOS will never turn 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.
• MODEM Use IRQ	<i>3,7,5,7,9, 10,11</i>	Special wake-up event for the Modem.
	<i>NA</i>	Invalidates this feature.
• Doze mode	<i>Disabled</i>	The system will never enter Doze mode.
	<i>1Min ~ 1 Hr</i>	Defines the continuous idle time before the system enters Doze mode. If any items defined in "Wake Up Events In Doze & Suspend" are On and activated, the system will be woken up.
• Standby Mode	<i>Disabled 1 Min ~ 1Hr</i>	The system will never enter Standby mode. Defines the continuous idle time before the system enters Standby mode. If any items defined in "Wake Up Events In Doze & Suspend" are On and activated, the system will be woken up.
• Suspend Mode	<i>Disabled Min ~ 1Hr</i>	The system will never enter Suspend mode. Defines the continuous idle time before the system enters Suspend mode. If any items defined in "Wake Up Events In Suspend" 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		
• Throttle Duty	<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>	



• VGA Active Monitor	<i>Enabled</i>	VGA active reloads global timer.
• Soft-Off by PWR-BTTN	<i>Disabled</i>	VGA active has no influence to global timer.
	<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.
• 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 waker-up signal comes up to the WOL header from LAN adapter.
	<i>Disabled</i>	Does not allow wake-up on LAN.
• 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

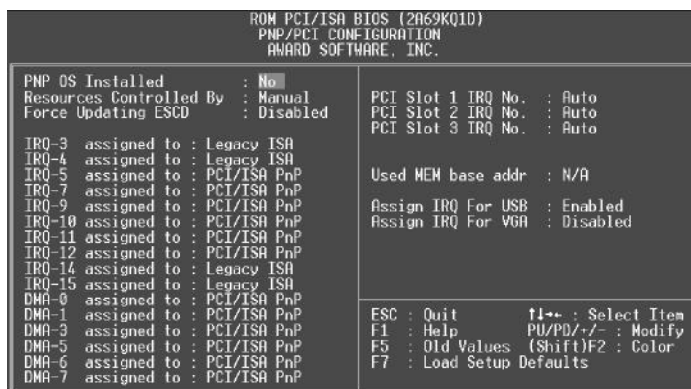


Figure-7 PNP/PCI Configuration Setup Menu

The following indicates the options of 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	Manual	Assigns the system resources (IRQ and DMA) manually .
	Auto	Assigns system resources (IRQ and DMA) automatically by BIOS.
• Force Update 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.
• PCI Slot 1/2/3 IRQ No.	Auto,3,4,5,7,9,10,11,12,14,15	Assigns an IRQ for PCI slot1/2/3 manually or automatically.
• Used MEM base	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.



- Assign IRQ for USB

Enabled

Assigns an IRQ for USB. If an USB device is used, enable this item.

Disabled

Does not assign an IRQ for USB. If USB device isn't used, disabling this item can release the IRQ.

- Assign IRQ for VGA

Enabled

Assigns the needed IRQ for the VGA Card.

Disabled

Does not assign an IRQ for the VGA card in order to release the IRQ.



Integrated Peripherals

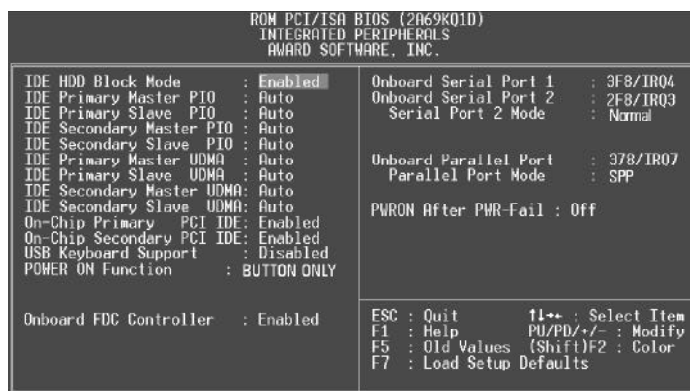


Figure-8 Integrated Peripherals Menu

The following indicates the options of 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	<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.
• 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.



- Onboard FDC Controller
- Onboard Serial 1/2

Enabled
Disabled
3F8/IRQ4,
2F8/IRQ3,
3E8/IRQ4,
2E8/IRQ3,
Auto

Note: If this option(Password) is chosen, the jumperJP2 must be set as PIN1&PIN 2 closed, or this will prevent you from powering up your system.

Onboard floppy disk controller is enabled.

Onboard floppy disk controller is disabled.

Defines the onboard serial port address and required interrupt number.

- Serial Port 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.

Defines onboard parallel port address and IRQ channel.

- Onboard Parallel Port

Disabled

Onboard parallel port is disabled.

- Parallel Port Mode

SPP
EPP
ECP,
ECP+EPP

Defines the parallel port mode as

Standard Parallel Port (SPP), Enhanced Parallel Port (EPP), or Extended

Capabilities Port (ECP).

- PWRON After PWR-Fail

Off

The system resumes OFF when the AC power supply powers on.

On

The system will be powered up when the AC power supply powers on.

Former-Sts

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 Setup

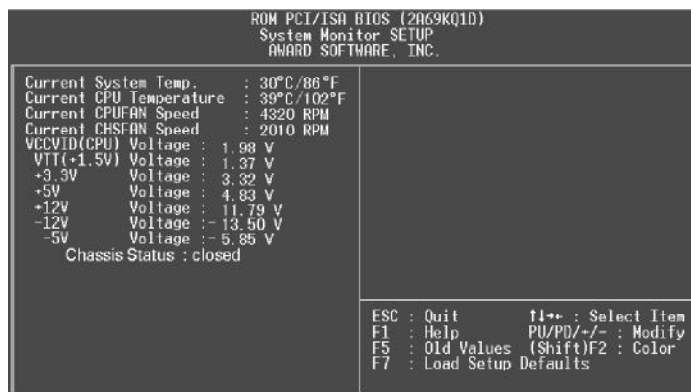


Figure-9 System Monitor Setup Menu

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 CPU Temperature	39 °C/102°F	The temperature of the CPU core.
• Current CPUFAN Speed	4320 RPM	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 CHSFAN Speed	2010 RPM	
• VCCVID(CPU) Voltage	1.98V	Displays current Voltage values including all the most important voltages of the mainboard. 3.3V, +5V, +12V, -12V, -5V are voltages from the ATX power supply, VTT (+1.5) Voltage is GTL Termination Voltage from the on-board regulator, and VCCVID (CPU) Voltage is CPU Core Voltage from the on board switching Power Supply.
• VTT (+1.5) Voltage,	1.37V	
• + 3.3V	3.32V	
• + 5V	4.83V	
• + 12V,	11.79V	
• - 12V,	-13.50V	
• - 5V.	-5.85V	
• Chassis Status:	Closed	Indicates status of chassis is closed
	Opened	Indicates status of chassis is open