

## Chapter 3: Setup

### About the Setup Utility

This chapter explains how to use and modify the BIOS setup utility that is stored on the mainboard. The setup utility stores information about the mainboard components, and the configuration of other devices that are connected to it. The system uses this information to test and initialize components when it is started up, and to make sure everything runs properly when the system is operating.

The setup utility is installed with a set of default values. The default values are designed to ensure that the system will operate adequately. You will probably have to make changes to the setup utility whenever you add new components to your system such as new disk drives. You may be able to generate increased performance by changing some of the timing values in the setup, but this can be limited by the kind of hardware you are using, for example the rating of your memory chips. In certain circumstances, the system may generate an error message which asks you to make changes to the setup utility. This happens when the system finds an error during the POST (power on self test) that it carries out at start up.

### Starting the Setup Utility

You can only start the setup utility shortly after the computer has been turned on. A prompt appears on the computer display which says “*Press DEL to run Setup*”. When you see this prompt, press the **Delete** key, and the system will start the setup utility and display the main menu of the utility.

### Using the Setup Utility

When you press the **Delete** key to start setup, the main menu of the utility appears.

The main menu of the setup utility shows a list of the options that are available in the utility. A highlight shows which option is currently selected. You can use the cursor arrow keys to move the highlight to other options. When an option is highlighted, you can execute the option by pressing the **Enter** key.

Some options lead to dialog boxes which ask you verify that that you wish to execute that option. You usually answer these dialogs by typing **Y** for yes and **N** for no.

Some options lead to dialog boxes which ask for more information. Setting the User Password or Supervisor Password have this kind of dialog box.

ROM PCI/ISA BIOS (P6SEP-ME)  
CMOS SETUP UTILITY  
AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS FEATURES SETUP	SUPERVISOR PASSWORD
CHIPSET FEATURES SETUP	USER PASSWORD
POWER MANAGEMENT SETUP	IDE HDD AUTO DETECTION
PNP/PCI CONFIGURATION	SAVE & EXIT SETUP
LOAD BIOS DEFAULTS	EXIT WITHOUT SAVING
LOAD OPTIMUM SETTINGS	
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift)F2 : Change Color

Some options lead to tables of items. These items usually have a value on the right side. The value of the first item is highlighted, and you can use the cursor arrow keys to select any of the other values in the table of items. When an item is highlighted, you can change the value by pressing the **PageUp** or **PageDown** keys, or the **Plus** or **Minus** keys. The **PageUp** and **Plus** keys cycle forward through the available values, the **PageDown** and **Minus** keys cycle backwards through the values.

When you are in the main menu, you can exit the utility by pressing the **Escape** key. You can save the current selections and exit the utility by pressing the **F10** key. You can change the color scheme of the utility by pressing the **F2** key while holding down the **Shift** key.

When you are in one of the options that displays a dialog box, you can return to the main menu by pressing the **Escape** key.

When you are in one of the options that displays a table of items, you can return to the main menu by pressing the **Escape** key. For some items, you can display a help message by pressing the **F1** key. You can change the color scheme of the utility by pressing the **F2** key while holding down the **Shift** key. You can press **F5** to discard any changes you have made and return all items to the value that they held when the setup utility was started. You can press **F6** to load the displayed items with a standard list of default values. You can press **F7** to load the displayed items with a high-performance list of default values.

## Standard CMOS Setup Option

This option displays a table of items which defines basic information about your system.

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ROM PCI/ISA BIOS (P6SEP-ME)
STANDARD CMOS SETUP
AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Thu, Jan 7 1999
Time (hh:mm:ss) : 10 : 55 : 53

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

Drive A : 1.44M, 3.5 in.
Drive B : None
Floppy 3 Mode Support : Disabled

Video : EGA/UGA
Halt On : All Errors

ESC : Quit      ↑ ↓ → ← : Select Item      PU/PD/+/- : Modify
F1  : Help      (Shift)F2 : Change Color
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### ***Date and Time***

The Date and Time items show the current date and time held by your computer. If you are running a Windows operating system, these items will automatically be updated whenever you make changes to the Windows Date and Time Properties utility.

### ***Hard Disks***

### ***Defaults: None***

These items show the characteristics of any hard disk drives on the four available IDE channels. (Note that SCSI hard disk drives do not appear here.) You can automatically install most modern hard disks using the IDE HDD Auto Detect Option from the main menu. However, if you find that a drive cannot be automatically detected, you can use these items to select USER, and then manually enter the characteristics of the drive. The documentation provided with your drive provides the data you need to fill in the values for CYLS (cylinders), HEAD (read/write heads), and so on.

The documentation provided with the drive may not tell you what value to use under the MODE heading. If the drive is smaller than 528 MB, set MODE to Normal. If the drive is larger than 528 MB and it supports Logical Block Addressing, set MODE to LBA. Very few high-capacity drives do not support Logical Block Addressing. If you have such a drive, you might be able to configure it by setting the MODE to Large. If you're not sure which MODE setting is required by your drive, set MODE to Auto and let the setup utility try to determine the mode automatically.

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**Drive A and Drive B****Default: 1.44M, 3.5 in., None**

These items define the characteristics of any diskette drive attached to the system. You can connect one or two diskette drives.

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**Floppy 3 Mode Support****Default: Disabled**

Floppy 3 mode refers to a 3.5" diskette with a capacity of 1.2 MB. Floppy 3 mode is sometimes used in Japan.

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**Video****Default: EGA/VGA**

This item defines the video mode of the system. This mainboard has a built-in VGA graphics system so you must leave this item at the default value.

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**Halt On****Default: All Errors**

This item defines the operation of the system POST (Power On Self Test) routine. You can use this item to select which kind of errors in the POST are sufficient to halt the system.

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## BIOS Feature Setup Option

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This option displays a table of items which defines more advanced information about your system. You can make modifications to most of these items without introducing fatal errors to your system.

ROM PCI/ISA BIOS (P6SEP-ME)  
BIOS FEATURES SETUP  
AWARD SOFTWARE, INC.

CPU Internal Core Speed	: 300MHz	Report No FDD For WIN 95	: Yes
Anti-Virus Protection	: Disabled	Video BIOS Shadow	: Enabled
CPU Internal Cache	: Enabled	C8000-CBFFF Shadow	: Disabled
External Cache	: Enabled	CC000-CFFFF Shadow	: Disabled
CPU L2 Cache ECC Checking	: Enabled	D0000-D3FFF Shadow	: Disabled
Quick Power On Self Test	: Enabled	D4000-D7FFF Shadow	: Disabled
Boot From LAN First	: Enabled	D8000-DBFFF Shadow	: Disabled
Boot Sequence	: A,C,SCSI	DC000-DFFFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	CPU Clock Failed Reset	: Disabled
Boot Up NumLock Status	: On		
IDE 32-bit Transfer Mode	: Disabled		
Typeomatic Rate Setting	: Disabled		
Typeomatic Rate (Chars/Sec)	: 6		
Typeomatic Delay (Msec)	: 250		
Security Option	: Setup	ESC : Quit	↑↓←→ : Select Item
PCI/VGA Palette Snoop	: Disabled	F1 : Help	PU/PD/+/- : Modify
OS Select For DRAM > 64MB	: Non-OS2	F5 : Old Values (Shift)F2 : Color	
HDD S.M.A.R.T. capability	: Disabled	F6 : Load BIOS Defaults	
		F7 : Load OPTIMUM Settings	

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**CPU Internal Core Speed****Default: 300 MHz**

Use this item to automatically set up the mainboard for the kind of Celeron processor that you have installed. Set this item to the rated internal clock speed of the Celeron processor. If you set this to Manual, two new items appear: CPU Host Bus Frequency and CPU Frequency.

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**Anti-Virus Protection****Default: Disabled**

When this item is enabled it provides some protection against viruses which try to write to the boot sector and partition table of your hard disk drive. This item is disabled as a default so that you can install an operating system. We recommend that you enable Anti-Virus Protection as soon as you have installed your disk with an OS.

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**CPU Internal Cache****Default: Enabled**

All the Celeron processors that can be installed in this mainboard use internal (level 1) cache memory to improve performance. Leave this item at the default value Enabled for better performance.

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**External Cache****Default: Enabled**

All the Celeron processors that can be installed in this mainboard use external (level 2) cache memory to improve performance. Leave this item at the default value Enabled for better performance.

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**CPU L2 Cache ECC Checking****Default: Enabled**

When this item is enabled, it allows the system to carry out cache memory error checking if the cache memory chips support ECC (Error Correction Code).

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**Quick Power On Self Test****Default: Enabled**

You can enable this item to shorten the power on testing and have your system start up a little faster. You might like to enable this item after you are confident that your system hardware is operating smoothly.

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**Boot From LAN First****Default: Enabled**

Enable this item if the system is part of a network and you want the machine to remote boot an OS from a network server.

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**Boot Sequence****Default: A,C,SCSI**

This item defines where the system will look for an operating system, and the order of priority. You can boot an operating system from many locations including a SCSI device, a ZIP drive, a floppy diskette drive or an LS-120 high-capacity diskette drive.

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**Swap Floppy Drive****Default: Disabled**

If you have two floppy diskette drives in your system, this item allows you to swap around the assigned drive letters so that drive A becomes drive B, and drive B becomes drive A.

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**Boot Up NumLock Status****Default: On**

This item defines if the keyboard Num Lock key is active when your system is started.

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**Typematic Rate Setting****Default: Disabled**

If this item is enabled, you can use the following two items to set the typematic rate and the typematic delay settings for your keyboard.

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**Typematic Rate (Chars/Sec)****Default: 6**

If the item Typematic Rate Setting is enabled, you can use this item to define how many characters per second are generated by a held-down key.

<b><i>Typematic Delay (Msec)</i></b>	<b><i>Default: 250</i></b>
If the item Typematic Rate Setting is enabled, you can use this item to define how many milliseconds must elapse before a held-down key begins generating repeat characters.	
<b><i>Security Option</i></b>	<b><i>Default: Setup</i></b>
If you have installed password protection, this item defines if the password is required at system start up, or if it is only required when a user tries to enter the setup utility.	
<b><i>PCI/VGA Palette Snoop</i></b>	<b><i>Default: Disabled</i></b>
This item is designed to overcome some problems that can be caused by some non-standard VGA cards. This board includes a built-in VGA system that does not require palette snooping so you must leave this item disabled.	
<b><i>OS Select For DRAM &gt; 64 MB</i></b>	<b><i>Default: Non-OS2</i></b>
This item is only required if you have installed more than 64 MB of memory and you are running the OS/2 operating system. Otherwise, leave this item at the default Non-OS2.	
<b><i>HDD S.M.A.R.T capability</i></b>	<b><i>Default: Disabled</i></b>
SMART is an industry acronym for Self-monitoring, Analysis and Reporting Technology. If the documentation of your hard disk states that SMART is supported, you can enable this item.	
<b><i>Report No FDD For WIN95</i></b>	<b><i>Default: Yes</i></b>
This item allows IRQ6 to be released for Windows 95 if floppy is absent.	
<b><i>Video BIOS Shadow</i></b>	<b><i>Default: Enabled</i></b>
This item allows the video BIOS to be copied to system memory for faster performance.	
<b><i>XXXXX-XXXXX Shadow</i></b>	<b><i>Default: Disabled</i></b>
These items allow the BIOS of other devices to be copied to system memory for faster performance.	

## Chipset Features Option

This option displays a table of items that define critical timing parameters of the mainboard components including the CPU, the memory, and the system logic.

As a general rule, you should leave the items on this page at their default values unless you are very familiar with the technical specifications of your system hardware. If you change the values, or load the optimum settings, you may introduce fatal errors or recurring instability into your system. The item list below shows only the default values for some items.

ROM PCI/ISA BIOS (P6SEP-ME)  
CHIPSET FEATURES SETUP  
AWARD SOFTWARE, INC.

Auto Configuration : Enabled	DRAM Controller 1 T WR : Disabled
RAS Pulse Width Refresh : 6T	DRAM Controller 1 T RD : Disabled
RAS Precharge Time : 4T	Concurrent function(MEM): Disabled
RAS to CAS Delay : 4T	
ISA Bus Clock Frequency : PCICLK/4	CPU Pipeline Control : Enabled
Starting Point of Paging: 2T	PCI Peer Concurrency : Enabled
SDRAM CAS Latency : 3T	PCI Delay Transaction : Enabled
SDRAM WR Retire Rate : X-2-2-2	Auto Detect DIMM/PCI Clk: Disabled
SDRAM Wait State Control: 1WS	Spread Spectrum : Disabled
SDRAM Input Signals : Lead 0.0ns	
SDRAM Output Signals : Lead 0.0ns	
RAMW# Assertion Timing : 3T	
CPU to PCI Post Write : Disabled	ESC : Quit      ↑↓←→ : Select Item
CPU to PCI Burst Mem. WR: Disabled	F1 : Help      PU/PD/+/- : Modify
System BIOS Cacheable : Enabled	F5 : Old Values (Shift)F2 : Color
Video BIOS Cacheable : Enabled	F6 : Load BIOS Defaults
Memory Hole at 15M-16M : Disabled	F7 : Load OPTIMUM Settings
AGP Aperture Size : 64MB	
VGA Shared Memory Size : 8 MB	

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### **Auto Configuration**

**Default: Enabled**

Leave this item at the default value enabled. Auto configuration installs preset default values for many of the timing parameters for the system.

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### **RAS Pulse Width Refresh**

**Default: 6T**

### **RAS Precharge Time**

**Default: 4T**

### **RAS to CAS Delay**

**Default: 4T**

These items install the settings for the Row Address Strobe (RAS) and the Column Address Strobe (CAS). The RAS and CAS determine the timing of the system's access to the main memory. We recommend that you leave these items at the default values.

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### **ISA Bus Clock Frequency**

**Default: PCICLK/4**

This item sets the timing for the ISA bus by dividing the frequency of the PCI bus. The PCI bus is usually set to 33 MHz, and we recommend that you divide this by four to set the ISA bus frequency.

<b>Starting Point of Paging</b>	<b>Default: 2T</b>
This item controls the start timing of memory paging operations. We recommend that you leave this item at the default setting.	
<b>SDRAM CAS Latency</b>	<b>Default: 3T</b>
<b>SDRAM WR Retire Rate</b>	<b>Default: X-2-2-2</b>
<b>SDRAM Wait State Control</b>	<b>Default: 1WS</b>
<b>SDRAM Input Signals</b>	<b>Default: Lead 0.0ns</b>
<b>SDRAM Output Signals</b>	<b>Default: Lead 0.0ns</b>
These items set the timing parameters for the installed SDRAM (Synchronous Dynamic Random Access Memory). We recommend that you leave these items at the default values.	
<b>RAMW# Assertion Timing</b>	<b>Default: 3T</b>
RAMW is an output signal to enable local memory writes. We recommend that you leave this item at the default value 3T.	
<b>CPU to PCI Post Write</b>	<b>Default: Disabled</b>
When this field is enabled, writes from the CPU to the PCI bus are buffered, to compensate for the difference in speed between the CPU and the PCI bus. When the item is Disabled, the writes are not buffered and the CPU must wait until the write is complete before starting another write cycle. We recommend that you leave this item at the default value Disabled.	
<b>CPU to PCI Burst Mem. WR</b>	<b>Default: Disabled</b>
When this item is enabled, the chipset is permitted to assemble long PCI bursts from the data held in its buffers. We recommend that you leave this item at the default value Disabled.	
<b>System BIOS Cacheable</b>	<b>Default: Enabled</b>
This item allows the system BIOS to be cached for faster performance. We recommend that you leave this item at the default value Enabled.	
<b>Video BIOS Cacheable</b>	<b>Default: Enabled</b>
This item allows the video BIOS to be cached for faster performance. We recommend that you leave this item at the default value Enabled.	
<b>Memory Hole at 15M-16M</b>	<b>Default: Disabled</b>
This item can be used to reserve memory space for some ISA cards that require it. We recommend that you leave this item at the default value Disabled.	
<b>AGP Aperture Size</b>	<b>Default: 64MB</b>
This item defines the size of the aperture if you use an AGP graphics adapter. It refers to a section of the PCI memory address range dedicated for graphics memory.	
<b>VGA Shared Memory Size</b>	<b>Default: 8MB</b>
This item defines how much of the main memory is reserved for use as video memory by the onboard graphics adapter. We recommend that you leave this item at the default value 4 MB.	



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<b>DRAM Controller 1 T WR</b>	<b>Default: Disabled</b>
<b>DRAM Controller 1 T RD</b>	<b>Default: Disabled</b>
<b>Concurrent function(MEM)</b>	<b>Default: Disabled</b>

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These three items define the properties and the operation of the system memory controller. We recommend that you leave these items at the default value.

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<b>CPU Pipeline Control</b>	<b>Default: Enabled</b>
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Pipelining allows the system controller to signal the CPU for new memory addresses even before all data transfers for the current cycle are complete, resulting in increased throughput.

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<b>PCI Peer Concurrency</b>	<b>Default: Enabled</b>
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This item defines the operation of devices on the PCI bus. Leave this item at the default value Enabled.

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<b>PCI Delay Transaction</b>	<b>Default: Enabled</b>
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If the chipset has an embedded 32-bit write buffer to support delay transaction cycles, you can enable this item to provide compliance with PCI Ver. 2.1 specifications. We recommend that you leave this item at the default value Enabled.

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<b>Auto Detect DIMM/PCI Clk</b>	<b>Default: Disabled</b>
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When this item is enabled, BIOS will disabled the clock signal of free DIMM and PCI slots.

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<b>Spread Spectrum</b>	<b>Default: Disabled</b>
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When this item is enabled, it can significantly reduce the EMI (electromagnetic interference) that your system generates by modulating the extreme values of the clock generator pulses. Enabling this item might cause problems with timing-critical devices such as SCSI adapters. We recommend that you leave this item at the default value Disabled.

## Power Management Setup Option

This option displays a table of items which lets you control the power management of the system. Modern operating systems take care of much of the routine power management. This mainboard supports ACPI (advanced configuration and power interface).

This system supports three levels of power-saving modes; doze mode, standby mode, and suspend mode. Standby mode uses less power than doze mode and suspend mode uses the least power.

### PM Timers

The power management in the setup utility lets you specify a timeout for each of the power-saving modes, and a timeout for a hard disk drive power down. A timeout, means a period of time when the system (or the hard disk drive) is inactive. If the timeout completes, the system power-saving mode will execute, or the hard disk drive will power down.

### PM Events

The Power Management Setup page includes a list of items named **\*\* PM Events \*\***. The first six items on this list show system events. If these events are set to Enabled, then any activity on that event will reset the system timeout counters for the power saving modes. The remaining items include wake-up alarms and other means of resuming the system from a software powerdown.

ROM PCI/ISA BIOS (P6SEP-ME)  
POWER MANAGEMENT SETUP  
AWARD SOFTWARE, INC.

Power Management : User Define	IRQ 8 Break Suspend : Disabled
PM Control by APM : Yes	Power Button Over Ride : Instant Off
Video Off Option : Susp,Stby -> Off	LAN/Ring Wake Up : Enabled
Video Off Method : DPMS Supported	Modem Wake Up : Enabled
Switch Function : Break/Wake	PME# Wake Up : Disabled
Doze Speed (div by): 2/8	AC Resume : Disabled
Stdby Speed(div by): 1/8	KB Power ON Password : Enter
MODEM Use IRQ : 3	Power Up by Alarm : Disabled
Hot Key Function As: Power Off	
<b>** PM Timers **</b>	
HDD Off After : Disable	
Doze Mode : Disable	
Standby Mode : Disable	
Suspend Mode : Disable	
<b>** PM Events **</b>	
HDD Ports Activity : Enabled	ESC : Quit      ↑↓←→ : Select Item
COM Ports Activity : Enabled	F1 : Help      PU/PD/+/- : Modify
LPT Ports Activity : Enabled	F5 : Old Values    (Shift)F2 : Color
VGA Activity : Disabled	F6 : Load BIOS Defaults
IRQ [3-7,9-15],NMI : Enabled	F7 : Load OPTIMUM Settings

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**Power Management****Default: User Define**

This item acts like a master switch for the power-saving modes and hard disk timeouts. If this item is set to Max Saving, doze, standby, and suspend mode, will occur after a timeout of 10 seconds. If this item is set to Min Saving, doze, standby, and suspend mode will occur after a timeout of 4 hours. If the item is set to User Define, you can insert your own timeouts for the power-saving modes.

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**PM Control by APM****Default: Yes**

Windows 95 and 98 have built-in power management capabilities called APM (Advanced Power Management). When you enable this item, you allow the APM routines in Windows to operate on your system.

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**Video Off Option****Default: Susp,Stby -> Off**

This option defines which level of power-saving mode is required in order to power down the video display. As a default, the video powers down both in suspend mode and standby mode.

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**Video Off Method****Default: DPMS Supported**

This item defines how the video is powered down to save power. As a default, this is set to DPMS (display power management software).

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**Switch Function****Default: Break/Wake**

If this item is enabled, it permits the use of a suspend switch (connected to PANEL1 – See Chapter 2). If the item is set to Break, the suspend switch puts the system in suspend mode. If the item is set to Break/Wake, you can press the suspend switch a second time to wake up the system. If the item is set to Disabled, the suspend switch does not function.

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**Doze Speed (div by)****Default: 2/8**

This item determines the processor clock speed when the system is in the power-saving doze mode. It is expressed as a fraction (2/8) of normal full speed.

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**Standby Speed (div by)****Default: 1/8**

This item determines the processor clock speed when the system is in the power-saving standby mode. It is expressed as a fraction (1/8) of normal full speed.

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**Modem Use IRQ****Default: 3**

If you would like an incoming call on a fax/modem to automatically resume the system from suspend mode, use this item to specify the interrupt request line (IRQ) that is used by the modem. You must connect the fax/modem to the mainboard Wake On Modem connector for this feature to work.

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**Hot Key Function As****Default: Power Off**

This item defines the operation of the keyboard hot keys (CTRL+ALT+BACKSPACE). You can disable the hot keys, make the hot keys cause a suspend mode, or make the hot keys cause a power off.

<b>HDD Off After</b>	<b>Default: Disabled</b>
If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 1 to 15 minutes. The hard disk drive will power down if the selected timeout passes without any activity on the hard disk.	
<b>Doze Mode</b>	<b>Default: Disabled</b>
If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 10 seconds to 4 hours. The system will go into the power-saving doze mode if the selected timeout passes without any system activity.	
<b>Standby Mode</b>	<b>Default: Disabled</b>
If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 10 seconds to 4 hours. The system will go into the power-saving standby mode if the selected timeout passes without any system activity.	
<b>Suspend Mode</b>	<b>Default: Disabled</b>
If you have selected User Define for the Power Management item, you can set this item to a selection of timeouts from 10 seconds to 4 hours. The system will go into the power-saving suspend mode if the selected timeout passes without any system activity.	
<b>HDD Ports Activity</b>	<b>Default: Enabled</b>
When this item is Enabled, any activity on the hard disk drive will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.	
<b>COM Ports Activity</b>	<b>Default: Enabled</b>
When this item is Enabled, any activity through the serial ports (COM1/3, COM2/4, or an Infrared Port) will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.	
<b>LPT Ports Activity</b>	<b>Default: Enabled</b>
When this item is Enabled, any activity through the parallel port (LPT1) will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.	
<b>VGA Activity</b>	<b>Default: Disabled</b>
When this item is Enabled, any activity on the graphics sub-system will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.	
<b>IRQ[3-7, 9-15],NMI</b>	<b>Default: Enabled</b>
When this item is Enabled, if any activity is detected on the system interrupts (IRQs) and the non-masked interrupt (NMI), the system will automatically reset the timeout counters for the power-saving modes, or resume the system from a power-saving mode.	
<b>IRQ 8 Break Suspend</b>	<b>Default: Disabled</b>
When this item is enabled, any activity through the system interrupt request line 8 can reset power-saving mode timeouts to zero, or resume the system from a power saving mode. IRQ 8 is normally used by the system realtime clock.	

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**Power Button Over Ride****Default: Instant Off**

Under ACPI (advanced configuration and power interface) the system can be turned off mechanically (by the power button) or it can undergo a software power off. If the system has been turned off by software, the system can be resumed by a LAN, MODEM or ALARM wake up signal. This item allows you to define a software power off using the power button. If the value is set to Instant-Off, the power button will automatically cause a software power off. If the value is set to Delay 4 Sec. the power button must be held down for a full four seconds to cause a software power off.

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**LAN /ring Wake Up****Default: Enabled**

If this item is enabled, it allows the system to resume from a software powerdown whenever there is incoming traffic or call to an installed network adapter or external Modem. For this feature to operate, the network adapter card must be connected to the Wake On LAN connector on the mainboard.

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**Modem Wake Up****Default: Enabled**

If this item is enabled, it allows the system to resume from a software powerdown whenever there is an incoming call to an internal fax/modem card. For this feature to operate, the fax/modem card must be connected to the Wake On Modem connector on the mainboard.

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**PME# Wake Up****Default: Disabled**

If this item is enabled, it allows the system to resume from a software powerdown whenever there is incoming traffic to an installed network adapte. For this feature to operate, the network adapter card must support PCI 2.2 specification.

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**AC Resume****Default: Disabled**

If this item is enabled, it allows the system to resume operation automatically whenever the system is halted by an unexpected interruption in the supply of AC power (for example a power blackout).

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**KB Power ON Password****Default: Enter**

You can use this item to install a password that you can type on the system keyboard in order to start the system.

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**Power Up By Alarm****Default: Disabled**

If this item is Enabled, it allows you to set a date and time alarm that will automatically resume the system from a software power down. When you enable this feature, new setup items appear to let you set the alarm. *Month Alarm* lets you select a month from 1 to 12. *Day of the Month Alarm* lets you select a day from 1 to 31. *Week Alarm* lets you select a recurring alarm for any day of the week. *Time Alarm* lets you select a time for the alarm in hours, minutes, and seconds.

## PNP/PCI Configuration Option

This option displays a table of items that configures how PNP (Plug and Play) and PCI expansion cards operate in your system. If you have not installed PCI cards in the expansion slots, you do not need to make any changes to this option.

ROM PCI/ISA BIOS (P6SEP-ME)  
PNP/PCI CONFIGURATION  
AWARD SOFTWARE, INC.

PNP OS Installed	: No	PCI IRQ Activated By	: Level
Resources Controlled By	: Manual	PCI IDE IRQ Map To	: PCI-AUTO
Reset Configuration Data	: Disabled	Primary IDE INT#	: A
		Secondary IDE INT#	: B
		Assign IRQ For USB	: Enabled
IRQ-3 assigned to	: PCI/ISA PnP		
IRQ-4 assigned to	: PCI/ISA PnP		
IRQ-5 assigned to	: Legacy ISA		
IRQ-7 assigned to	: PCI/ISA PnP		
IRQ-9 assigned to	: PCI/ISA PnP		
IRQ-10 assigned to	: PCI/ISA PnP		
IRQ-11 assigned to	: PCI/ISA PnP		
IRQ-12 assigned to	: PCI/ISA PnP		
IRQ-14 assigned to	: PCI/ISA PnP		
IRQ-15 assigned to	: PCI/ISA PnP		
DMA-0 assigned to	: PCI/ISA PnP		
DMA-1 assigned to	: PCI/ISA PnP	ESC : Quit	↑↓→← : Select Item
DMA-3 assigned to	: PCI/ISA PnP	F1 : Help	PU/PD/+/- : Modify
DMA-5 assigned to	: PCI/ISA PnP	F5 : Old Values (Shift)	F2 : Color
DMA-6 assigned to	: PCI/ISA PnP	F6 : Load BIOS Defaults	
DMA-7 assigned to	: PCI/ISA PnP	F7 : Load OPTIMUM Settings	

### ***PNP OS Installed***

***Default: No***

If you have installed a Plug and Play operating system such as Windows 95 or 98, you can change this item to Yes. When the item is set to Yes you can use the Device Manager utility in the operating system to make changes to the configuration of expansion cards.

### ***Resources Controlled By***

***Default: Manual***

This item is set at the default Manual. If you find that you cannot get a particular expansion card to work properly, you might be able to solve the problem by setting this item to Manual, and defining the characteristics of the card in the new items which appear.

If you change this item to Manual, the display will list a series of items that allow you to define the assignments of the system interrupt lines (IRQs) and Direct Memory Access (DMA) channels. As a default, these items are set to PCI/ISA PnP. If you install an ISA-bus card that does not support PNP, and it requires a special IRQ and DMA, you can modify the list of assignments. Change the values of the IRQ and DMA that are required to Legacy ISA.

### ***Reset Configuration Data***

***Default: Disabled***

If you enable this item and restart the system, any PNP configuration data stored in the BIOS setup will be cleared from memory. New updated configuration data will be created.

---

**PCI IRQ Activated By****Default: Level**

This item defines the way that signals on the PCI bus generate interrupts to the processor. We recommend that you leave this item at the default value Level.

---

**PCI IDE IRQ Map To****Default: PCI-AUTO****Primary IDE INT#****Default: A****Secondary IDE INT#****Default: B**

These items select if you are using PCI IDE channels or ISA-bus IDE channels. If you are using PCI IDE, two other fields appear which show the mapping of the primary and secondary channels. Leave this item at the default value unless you have disabled the onboard IDE channels and are using an ISA bus IDE card.

---

**Assign IRQ For USB****Default: Enabled**

When this item is enabled, the system can assign an IRQ to devices connected on the USB port.

---

## Load BIOS Defaults Option

This option displays a dialog box which allows you to install BIOS defaults for all appropriate items in the whole setup utility. Press the **Y** key and then the **Enter** key to install the defaults. Press the **N** key and then **Enter** to not install the defaults. The BIOS defaults do not place great demands on the system and are generally very stable. If your system is not functioning correctly, you might like to install the BIOS defaults as a first step in getting your system working properly again. If you only want to install BIOS defaults for a specific option, select and display that option, and then press the **F6** key.

---

## Load Optimum Settings Option

This option displays a dialog box which allows you to install optimum defaults for all appropriate items in the whole setup utility. Press the **Y** key and then the **Enter** key to install the defaults. Press the **N** key and then **Enter** to not install the defaults. The optimum defaults can place some demands on the system that are greater than the performance level of the components, such as the processor and the memory. You could cause fatal errors or recurring instability if you install the setup defaults when your hardware does not support it. If you only want to install setup defaults for a specific option, select and display that option, and then press the **F7** key.

## Integrated Peripherals Option

This option displays a list of items which defines the operation of some peripheral items on the system's input/output ports.

ROM PCI/ISA BIOS (P6SEP-ME)  
INTEGRATED PERIPHERALS  
AWARD SOFTWARE, INC.

Internal PCI/IDE : Both	ECP Mode Use DMA : 3
IDE Primary Master PIO : Auto	Parallel Port EPP Type : EPP1.9
IDE Primary Slave PIO : Auto	PS/2 mouse function : Enabled
IDE Secondary Master PIO: Auto	USB Controller : Enabled
IDE Secondary Slave PIO: Auto	USB Keyboard Support : Disabled
Primary Master UltraDMA: Auto	Init Display First : PCI Slot
Primary Slave UltraDMA: Auto	Current CPU Temperature :
Secondary Master UltraDMA: Auto	Current CPUFAN1 Speed :
Secondary Slave UltraDMA: Auto	Current CPUFAN2 Speed :
IDE Burst Mode : Enabled	+ 5 (V): I/O (V):
IDE HDD Block Mode : Enabled	+2.5(V): CPU (V):
Onboard FDD Controller : Enabled	
Onboard Serial Port 1 : 3F8/IRQ4	
Onboard Serial Port 2 : 2F8/IRQ3	
UART 2 Mode : HPSIR	ESC : Quit ↑↓←→ : Select Item
IR Function Duplex : Half	F1 : Help PU/PD/+/- : Modify
RxD , TxD Active : Hi,Hi	F5 : Old Values (Shift)F2 : Color
Onboard Parallel Port : 378/IRQ7	F6 : Load BIOS Defaults
Onboard Parallel Mode : ECP	F7 : Load OPTIMUM Settings

### **Internal PCI/IDE**

**Default: Both**

This item lets you enable or disable the two PCI IDE channels (primary and secondary) that are integrated on this motherboard. As a default, both channels are enabled.

### **IDE Primary Master PIO**

**Default: Auto**

### **IDE Primary Slave PIO**

**Default: Auto**

### **IDE Secondary Master PIO**

**Default: Auto**

### **IDE Secondary Slave PIO**

**Default: Auto**

Each IDE channel supports a master device and a slave device. These four items let you assign which kind of PIO (Programmed Input/Output) is used by IDE devices.

You can choose Auto, to let the system auto detect which PIO mode is best, or you can install a PIO mode from 0-4.

### **IDE Primary Master UDMA**

**Default: Auto**

### **IDE Primary Slave UDMA**

**Default: Auto**

### **IDE Secondary Master UDMA**

**Default: Auto**

### **IDE Secondary Slave UDMA**

**Default: Auto**

Each IDE channel supports a master device and a slave device. This motherboard supports UltraDMA. UltraDMA technology provides faster access to IDE devices. If you install a device which supports UltraDMA, change the appropriate item on this list to Auto. You may have to install the UltraDMA driver supplied with this motherboard in order to use an UltraDMA device.



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**IDE Burst Mode****Default: Enabled**

Burst mode transfers can improve the access to IDE devices. Enable this item if your IDE devices support burst mode transfers.

---

**IDE HDD Block Mode****Default: Enabled**

Block mode transfers can improve the access to IDE devices. Enable this item if your IDE devices support block mode transfers.

---

**Onboard FDC Controller****Default: Enabled**

Use this item to turn on or off the floppy disk controller that is built into this mainboard.

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**Onboard Serial Port 1****Default: 3F8/IRQ4**

This item lets you disable the built-in serial port 1, or enable it by assigning an I/O address and an Interrupt Request Line (IRQ).

---

**Onboard Serial Port 2****Default: 2F8/IRQ3**

This item lets you disable the built-in serial port 2, or enable it by assigning an I/O address and an Interrupt Request Line (IRQ).

---

**UART 2 Mode****Default: Standard**

This item defines the operation of serial port 2. In the Normal setting, serial port 2 is assigned to the connector on the mainboard. If you have installed an optional infrared port, you must change the setting of this item to one of the Infrared settings (usually IrDA, FIR and HPSIR). These settings will disable the mainboard serial port connector and assign serial port 2 to the infrared device. If you have selected an IR mode, two items appear, *IR Function Duplex* and *RxD, TxD Active*, which let you set the duplex and transmission parameters for the Infrared port. See the documentation of your infrared port for help on these items.

---

**Onboard Parallel Port****Default: 378/IRQ7**

This item lets you disable the built-in parallel port, or enable it by assigning an I/O address and an Interrupt Request Line (IRQ).

---

**Parallel Port Mode****Default: SPP**

This item defines the operation of the parallel port. It can be set to SPP (standard parallel port). If you are connected to a parallel device that supports the higher-performance EPP (enhanced parallel port) or the ECP (extended capabilities port) make the appropriate changes to this item. If you change the parallel port to EPP or ECP, new items appear to let you configure the EPP and ECP modes.

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**PS/2 mouse function****Default: Enabled**

Use this item to enable or disable the built-in PS/2 mouse port. If you are using a serial port mouse, you can conserve system resources by disabling the PS/2 mouse port.

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**USB Controller****Default: Enabled**

Use this item to enable or disable the built-in Universal Serial Bus ports. If you are not using any USB devices, you can conserve system resources by disabling the USB ports.

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**USB Keyboard Support****Default: Disabled**

Enable this item if you are using a keyboard connected through the USB interface.

---

**Init Display First****Default: PCI Slot**

Use this item to define if your graphics adapter is installed in one of the PCI slots.

---

**Current CPU Temperature, Current CPUFAN1 Speed, etc.**

If you are using the hardware monitoring features of this system, you can use these items to set thermal parameters for the system.

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## Password Settings

This item can be used to install a password. To install a password, follow these steps:

1. Highlight the item Password Settings on the main menu and press **Enter**.
2. The password dialog box will appear.
3. If you are installing a new password, carefully type in the password. You cannot use more than 8 characters or numbers. The password will differentiate between upper case and lower characters. Press **Enter** after you have typed in the password. If you are deleting a password that is already installed just press **Enter** when the password dialog box appears.
4. The system will ask you to confirm the new password by asking you to type it in a second time. Carefully type the password again and press **Enter**, or just press **Enter** if you are deleting a password that is already installed.
5. If you typed the password correctly, the password will be installed.

---

## IDE HDD Auto Detection Option

This item automatically detects and installs any hard disk drives installed on the primary and secondary IDE channel. Most modern drives can be detected. If you are using a very old drive that can't be detected, you can install it manually using the Standard CMOS Setup option.

Setup will check for two devices on the primary IDE channel and then two devices on the secondary IDE channel. At each device, the system will flash an N in the dialog box. Press **Enter** to skip the device and proceed to the next device. Press **Y**, then **Enter** to tell the system to auto-detect the device.

## Save And Exit Setup Option

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Highlight this item and press **Enter** to save the changes that you have made in the setup utility and exit the setup program. When the Save and Exit dialog box appears, press **Y** to save and exit, or press **N** to return to the setup main menu.

## Exit Without Saving Option

---

Highlight this item and press **Enter** to discard any changes that you have made in the setup utility and exit the setup program. When the Exit Without Saving dialog box appears, press **Y** to discard changes and exit, or press **N** to return to the setup main menu.