

# Setup

This chapter tells how to use the Setup utility. This utility allows you to configure the notebook without setting any jumpers or switches.

## 4.1 When to Use Setup

This notebook is already correctly configured and you do not need to run Setup. If however, you do receive an Equipment Configuration Error message after you turn on the notebook, you need to run Setup and make the necessary modifications. Run the Setup utility if you want to do any of the following:

- Change the system date and time
- Add or remove a serial mouse or printer
- Enable or disable the memory test, diskette drive, hard disk drive, and power-saving features
- Change the system boot drive and display device
- Set the video display features
- Write-protect the hard disk and diskette drive
- Set, change, or remove a system password
- Enable or disable power-saving timers

## 4.2 Entering Setup

To enter Setup, press **m** during POST or the no-reboot Setup button (🔒).

Pressing **m** during POST allows you to access the complete Setup utility. The system reboots when you exit Setup to make any changes take effect.

Pressing the no-reboot Setup button (🔒) allows you to access the Advanced System Configuration screens and the system does not reboot when you exit from Setup. It simply returns you to where you left off before entering Setup.



*If the notebook is connected to a LAN environment or has a current modem connection, note that it may not resume connection after the notebook returns to normal operating mode.*

After pressing **m** during POST, the Setup main menu appears:

SETUP Utility
<div>Basic System Configuration Advanced System Configuration System Security Load Setup Default Settings</div>
↑ ↓ ← → = Move Highlight Bar, ↵ = Select, Esc = Exit and Reboot

Most of the Setup parameters are self-explanatory. Press **h** for help.

When you press **q** to exit a Setup screen, the following prompt appears:

Do you want to save CMOS data?	
[Yes]	[No]

Select **[Yes]** to save the changes you made to the configuration values or **[No]** to abandon the changes and retain the current values.

### 4.3 Basic System Configuration

Basic System Configuration has a one-page screen display illustrated below.

Basic System Configuration

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Date ----- [MM/DD/YY]

Time ----- [HH:MM:SS]

Floppy Disk A ----- [1.44 MB 3.5-inch]

Floppy Disk B ----- [None]

Cylinder

Head

Sector

Fixed Disk 0 (244 MB) ----- [Auto] 723 11 63

Fixed Disk 1 ( 0 MB) ----- [None]

Enhanced IDE Features

Large Hard Disk Capacity ---- [Enabled]

Num Lock After Boot ----- [Disabled]

Memory Test ----- [Enabled ]

Math Coprocessor ----- [Installed]

↑↓ = Move Hightlight Bar, →← = Change Setting

PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

Parameters displayed in low brightness are non-user-configurable. The system detects and sets the values for these parameters.

Use w or y to move from one parameter to another. Use the z or x to change parameter settings.

You have to change some settings when you add a component to the notebook.

### **4.3.1 Date and Time**

The notebook displays the current date in MM/DD/YY format and the current time in HH:MM:SS format. It uses a 24-hour clock; for example, 6:25 PM displays as 18:25:00.

### **4.3.2 Floppy Disk Drives**

The default setting for Floppy Disk A is [1.44 MB 3.5-inch]. Since the notebook supports only one diskette drive, Floppy Disk B is set to [None] and is not user-configurable.

### **4.3.3 Fixed Disk Drives**

The default setting for Fixed Disk 0 is [Auto]. In this setting, the BIOS automatically detects your drive parameters. You can also opt to key in your drive type or drive parameters. See Appendix B for a list of hard disk drive types. To determine your drive type, compare the data on the label pasted on your hard disk drive (or supplied in vendor documentation) with the disk types found in Appendix B. Be sure to select the correct drive type; otherwise an error message appears when you boot up the notebook. We suggest you set this parameter to [Auto].

Hard Disk 1 is not supported in this notebook. It is set to [None] and is not user-configurable.

### **4.3.4 Enhanced IDE Features**

The default setting for Large Hard Disk Capacity is [Enabled].

### **4.3.5 Num Lock After Boot**

When the Num Lock After Boot parameter is set to [Enabled], the embedded keypad acts as a numeric keypad upon initial power-on or reboot.

### **4.3.6 Memory Test**

The notebook always tests the main memory for errors each time you turn it on. Select [Disabled] to bypass the memory test and speed up the self-test procedure.

### **4.3.7 Math Coprocessor**

This parameter is non-user-configurable and indicates whether the notebook has a math coprocessor installed or not. This notebook has a built-in coprocessor.

## 4.4 Advanced System Configuration

The Advanced System Configuration section has a three-page screen display. The first two pages of this section are accessible with m as well as the no-reboot Setup button (●). The third page is accessible only with the no-reboot Setup button. The following is page 1.

```
Advanced System Configuration                                Page 1/3

Power Management Mode ----- [Enabled]
  Display Standby Timer ----- [ 1] Minute(s)
  Hard Disk Standby Timer ----- [ 1] Minute(s)
  System Standby/Suspend Timer ----- [ 3] Minute(s)

Battery-low Warning Beep ----- [Enabled]
Suspend upon Battery-low ----- [Enabled]

Password Check during Resume ----- [Disabled]

↑↓ = Move Hightlight Bar, →← = Change Setting
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit
```

#### 4.4.1 Power Management Mode

With this parameter set to `[Enabled]`, all the timers in Setup take effect unless specifically disabled by the user. Select `[Disabled]` to turn off all the timers.



*If APM is installed under DOS or Windows, you cannot disable the Power Management Mode under Setup. To disable APM, type Power Off under DOS, or disable the Power icon in the Windows Control Panel.*

## Power Management Timers

- Display Standby Timer

The notebook shuts off the LCD backlight if there is no activity from the keyboard or external PS/2 mouse within the period specified by this timer. To turn the display back on, press a key or move the mouse.

The valid values for this timer range from 1 to 15 minutes. Select [Off] to disable the timer.

- Hard Disk Standby Timer

The hard disk drive enters standby mode if there are no disk read/write operations within the period specified by this timer. The hard disk returns to normal mode once the notebook accesses it.

The valid values for this timer range from 1 to 15 minutes. Select [Off] to disable the timer.

- System Standby/Suspend Timer

This parameter enables you to set a timeout period for the notebook to enter either system standby or suspend mode.

If the reserved disk space for saving the system data is larger than the combined system and video memory size, the notebook enters suspend mode. Otherwise, it enters system standby mode.

The valid values for this timer range from 1 to 15 minutes. Select [Off] to disable the timer.



#### **4.4.2 Battery-low Warning Beep**

This parameter allows you to enable or disable the warning beep generated by the system when a battery-low condition occurs. The default setting is [Enabled].

#### **4.4.3 Standby/Suspend Upon Battery-low**

This parameter enables the system to enter standby/suspend mode when a battery-low condition takes place. The default setting is [Enabled].

#### **4.4.4 Password Check During Resume**

This parameter allows you to prevent unauthorized resumption from the suspend mode to normal mode. After setting a power-on password, the notebook automatically sets this parameter to [Enabled]. When you exit suspend mode and return to normal mode, the notebook requires you to enter the password.

Advanced System Configuration

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Display Device ----- [Auto]

LCD Expand Mode ----- [Enabled]

↑↓ = Move Hightlight Bar, →← = Change Setting  
PgDn/PgUp = Move Screen, F1 = Help, Esc = Exit

If you install an external VGA display, you can switch display between the LCD and external display (CRT). This parameter determines which display device the notebook uses. Table 4-1 describes the different settings.

Setting	Description
Auto (default)	If an external display is present, the notebook uses the external display; otherwise, the LCD is the display device.
Both	The notebook uses the external display and LCD simultaneously.

#### 4.4.6 LCD Expand Mode

If the LCD Expand Mode is enabled, the VGA subsystem replicates or paints in a few extra lines so that an output less than 640x480 resolution can fill up the entire LCD screen. Expanded mode gives a better and more balanced display.

For resolutions greater than 640x480 (e.g., 800x600, 1024x768), enabling this parameter does not fill up the entire screen. When enabled, this parameter may not produce the desired results for all video modes, and only applies to video modes that have vertical scan lines less than 480.



*Expanded display may not work in some applications.*

*When the expanded mode is disabled, the screen slides slowly from top to middle.*

The following is page 3 of the Advanced System Configuration screens. This page lists a summary of the system settings currently configured.

Advanced System Configuration		Page 3/3
System Information		
CPU/CLK	: Pentium/75MHZ	Internal cache : 16 KB, Enabled
Base memory	: 640 KB	External cache : None
Extended memory	: 7168 KB	Pointing device : None
Shadow RAM	: 256 KB	Internal KB : 87 key
SMRAM	: 128 KB	
Hard Disk 0	: 244 MB QUANTUM GLS256A	
Security	: Normal	
Floppy Drive A	: 1.44 MB 3.5-inch	
Security	: Normal	
Boot Device	: Drive A Then C	
Serial Port	: 3F8h, IRQ 4	
Parallel Port	: 278h, IRQ 5	
Operation Mode	: Standard Parallel Port(SPP)	
PgDn/PgUp = Move Screen, Esc = Exit		

## 4.5 System Security

SETUP Security	Page 1/1
<p>Disk Drive Control</p> <p>Floppy Disk Drive ----- [ Normal ]</p> <p>Hard Disk Drive ----- [ Normal ]</p> <p>System Boot Drive ----- [Drive A Then C]</p> <p>On Board Communication Ports</p> <p>Serial Port Base Address ----- [ 3F8h(IRQ 4) ]</p> <p>Parallel Port Base Address ----- [ 378h(IRQ 7) ]</p> <p>Parallel Port Operation Mode ----- [Standard]</p> <p>Setup Password ----- [ None ]</p> <p>Power On Password ----- [ None ]</p>	
↑↓ = Move Hightlight Bar, ↵= Select, Esc = Exit and Reboot	

## 4.5.1 Floppy Disk Drive Control

This parameter allows you to enable or disable the read/write functions of the diskette drive. The following table summarizes the available options.

*Table 4-2 Floppy Disk Drive Control Settings*

Setting	Description
Normal (default)	Diskette drive functions normally
Write Protect All Sectors	Disables any diskette drive write function. This option is for operating systems that access the diskette drive 100 percent via BIOS only.
Write Protect Boot Sector	Disables the diskette drive write function on a diskette's boot sector. This option is for operating systems that access the diskette drive 100 percent via BIOS only.
Disabled	Disables the diskette drive

## 4.5.2 Hard Disk Drive Control

This parameter allows you to enable or disable the read/write functions of the hard disk drive. The following table summarizes the available options.

*Table 4-3 Hard Disk Drive Control Settings*

Setting	Description
Normal (default)	Hard disk drive functions normally
Write Protect All Sectors	Disables any hard disk drive write function. This option is for operating systems that access the hard disk drive 100 percent via BIOS only.
Write Protect Boot Sector	Disables the hard disk drive write function on the hard disk's boot sector. This option is for operating systems that access the hard disk drive 100 percent via BIOS only.
Disabled	Disables the hard disk drive

### 4.5.3 System Boot Drive Control<sup>1</sup>

This parameter determines which drive the notebook boots from when you turn it on. The following table lists the three possible settings.

*Table 4-4 System Boot Drive Control Settings*

Setting	Description
Auto	Notebook boots from diskette drive A. If there is no system disk in drive A, the notebook boots from hard disk drive C. If the hard disk is a non-system disk, an error message appears.
Drive A Then C (default)	Notebook boots from diskette drive A. If drive A does not have a system disk, an error message appears.
Drive C Then A	Notebook boots from hard disk drive C. If the hard disk is a non-system disk, an error message appears.

### 4.5.4 Serial Port Base Address

The serial port can accommodate a modem, serial mouse, serial printer, or other serial devices. The default setting for the serial port base address is [ 3F8h ( IRQ 4 ) ]<sup>2</sup>.

Other options include:

- 2F8h ( IRQ 3 )
- Disabled

Make sure the serial port base address does not conflict with the address used by a PCMCIA card, if one is installed.

<sup>1</sup> An installed PCMCIA bootable card overrides this setting. The notebook supports SRAM card boot.

<sup>2</sup> The parameter value is the base address expressed in hexadecimal.

### 4.5.5 Parallel Port Base Address

The parallel port can accommodate a parallel printer or other parallel devices. The default setting for the parallel port base address is [ 378h (IRQ 7) ]<sup>1</sup>. The other options for this parameter are:

- 278h (IRQ 5)
- 3BCh (IRQ 7)
- Disabled

### 4.5.6 Parallel Port Operation Mode

The parallel port supports four operation modes:

- Standard Parallel Port (SPP)
- Bi-Directional
- EPP
- ECP

EPP or Enhanced Parallel Port is a parallel port interface that greatly improves performance for bidirectional block-mode data transfers. Burst data transfer rates of 50~150 KB/sec. for standard parallel ports jump to 2 MB/sec. for EPP. ECP or Extended Capabilities Port is a fast parallel interface backward-compatible with standard parallel port. It boosts the I/O bandwidth to meet the demands of high-performance peripherals.

The default setting is [Standard Parallel Port (SPP)].



*If you set EPP as the parallel port operation mode, do not use 3BCh as the parallel port base address; otherwise, I/O conflicts will occur.*

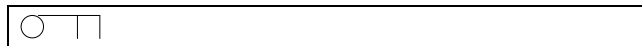
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<sup>1</sup> The parameter value is the base address expressed in hexadecimal.



### 4.5.7 Passwords

Two passwords are implemented in this notebook. The Setup Password prevents unauthorized access to the Setup utility, while the Power On Password prevents unauthorized access to the notebook. To set a password, select the desired password (Setup and Power On) to set or edit, and press z or x. The password prompt (a key) appears:



A message below the menu prompts you to enter a password. The password may consist of up to seven characters which do not appear on the screen when you type them. After typing your password, press Enter. Another prompt appears asking you to retype your password to verify your first entry.

After setting a password, the notebook sets this parameter to [Present]. The next time you boot the notebook, resume from suspend mode or run the Setup utility, the password prompt appears. Key in the appropriate password (Power On or Setup). If the password you entered is incorrect, an "X" appears. You have three chances to type in the correct password. After three tries, the following message appears:

Incorrect password specified. System disabled.

The notebook freezes up and disables all devices. You must turn off the notebook and turn it on again to retry. If you forget your password, you must reset the configuration values stored in CMOS to defaults. Resetting CMOS requires opening up the system unit, so contact your dealer for assistance.

## 4.6 Load Setup Default Settings

Selecting this option allows you to load all the default settings. The default settings are the values initially stored in CMOS RAM intended to provide high performance. If in the future, you change these settings, you can load the default settings again by selecting this option.

When you select this option, the following prompt appears:

Load Setup Default Settings  
Are you sure?

[Yes]                      [No]

Select [Yes] to load the default settings or [No] to abort the operation.