Notebook PC

Software Reference

Product Name:	**Notebook PC Support CD**
Manual Revision:	**1.00 E992**
Release Date:	**May 2002**

Table of Contents

Support CD for Windows

The Notebook PC you purchased may or may not be preloaded with an operating system. The support CD included with this Notebook PC provides all the necessary drivers and utilities in order for you to use your Notebook PC with Microsoft® Windows® XP (referred to as "Windows" in this User's Manual).

The levels of hardware and software support may vary depending on the installed operating system. Operating systems not pre-installed on this Notebook PC may produce different results than the ones described in the provided user's manuals.

If your Notebook PC is not preloaded with any operating system, or you want to install another operating system other than the preloaded one, the following pages will give step-by-step installation procedures for typical system configurations under the Windows® operating system. For application usage, please see the online help provided with each of the applications after installation. The following are contents of a typical support CD. Variations may be found for each territory or language. If the autorun menu does not appear, double clicking the CD-ROM disc drive icon in "My Computer" (may be the (D:) drive or (E:) drive on hard drives with two partitions) or running SETUP.EXE (through Start menu "Run...") located in the root of the support CD, will bring up the autorun menu.

Drivers for Windows

The following are descriptions of each autorun menu item. Due to ongoing improvements in the support CD, there may be some differences between this User's Manual and your support CD. The names in quotations are the actual driver names displayed in the System Properties of MS Windows. Windows cannot contain all the device drivers from every manufacturer, with every update; therefore the provided support CD will contain the best driver for your built-in devices and should be used in place of any Windows default drivers.

Intel 845M INF Update (required) "Intel 828XX" Drivers

Shown under Windows "**System devices**." This installs drivers for the Notebook PC's specific chipset.

ATKACPI Driver (required) "ATK0100 ACPI UTILITY" Driver

Shown under Windows "**System devices**." This installs drivers for the Notebook PC's Advanced Configuration and Power Interface (ACPI) for features utilizing power management functions.

VGA Driver (required) "ATI Mobility Radeon M7" Driver

Shown under Windows "**Display adapters**." This installs display drivers for your operating system in order to properly use the Notebook PC's built-in graphics controller and to provide optimal features. Once the display driver is installed, you can change your display's resolution and color through Display Properties.

Audio Driver (required) "Crystal WDM Audio Codec" Driver

Shown under Windows "**Sound, video and game controllers**." This installs audio drivers for your operating system in order to properly use the Notebook PC's built-in sound controller. All audio functions are configured through Windows and help can be located within Windows documentation or Windows help files.

IAA Utility (optional) Utility

The Intel® Application Accelerator is a software package designed specifically to increase the performance of applications and computer systems running Intel® Pentium® III or Pentium® 4 Processor.

Modem Driver (required-WinME) "HSP56 MR" Driver

Installs the necessary driver in order for your operating system to have the correct files for the Notebook PC with built-in modem and drivers for integration with the internal audio. With third-party software, fax and speaker phone capabilities are possible using this Notebook PC.

TouchPad (recommended) "Synaptics PS/2 TouchPad" Driver

Shown under Windows "**Mice and other pointing devices**." Installs "**Synaptics® TouchPad**" utility. The Notebook PC already supports built-in or externally connected keyboard and PS/2 mouse devices. However, the provided device driver will provide enhancements and features to the TouchPad to increase the functionality of the TouchPad. For detailed information, see the Software Reference in the next section. To access help, right-click the TouchPad icon on the taskbar and select Help.

Fast IR Driver (required) "IrDA Fast Infrared Port" Driver

Shown under "**Network adapters**". Installs driver and configures your Infrared Transceiver A to "**HP HSDL-2300/3600**" so that your Infrared port can work properly.

PC-cillin 2000 (optional) Utility

Installs **Trend's PC-cillin 2000**, a world-class anti-virus protection software for the new Internet era, to keep your PC virus-free. This very powerful anti-virus software is bundled with each Notebook PC to protect your investment. As software become more and more a part of our daily lives, measures have to be taken to protect them. You may skip this software if you have your own anti-virus software.

ATKACPI Utility (submenu) Link

Shows you a sub-menu with additional utilities. These utilities require that you first install the **ATKACPI** driver. See next page for descriptions of the utilities.

LAN Driver (required) "Realtek RTL8139/810X Family PCI Fast Ethernet NIC" Driver

Located under Windows "**Network Adapters**." Installs the required LAN driver for the Notebook PC's built-in PCI Fast-Ethernet controller. Fast-Ethernet supports both 10 Base-T or 100 Base-TX networks at half or full duplex.

Read Me Text

Gives you notes concerning this support CD or the Notebook PC.

Browse this CD

Shows you the contents of this support CD using Windows Explorer.

Technical Support Form Text

Opens up a Technical Support Request Form so that you will understand what kind of information is needed if you run into problems and require technical assistance.

Exit

Closes the support CD autorun screen.

ATKACPI Utility (Submenu)

Hotkey Utility (required) Utility

Installs **Hotkey utility**. Hotkey utility is a program designed to intercept key strokes so that key assignments can be made to run a program or script. This program cannot be used to change default keys or key combinations used by other software, operating systems, or by the Notebook PC's hardware.

Windows Flash Utility (recommended) Utility

Installs a BIOS update utility for Windows so that you can conveniently update your Notebook PC's BIOS without having to restart your Notebook PC in DOS mode.

ASUS PC Probe (optional) Utility

Installs **PC Probe** utility to monitor the Notebook PC's CPU temperature and other resources. This is an optional software to help you better manage your Notebook PC's resources.

Power4 Gear Utility (optional) Utility

Power4 Gear is a custom utility designed for this Notebook PC that allows you to use predefined or user defined values for multi-selectable power saving modes or "gears". You can "shift" between the "gears" using the taskbar icon or the "Power Gear" key above the keyboard.

Check Mail Utility (optional) Utility

Installs Check Mail Utility to monitor and notify you of incoming email messages waiting in your Microsoft® Outlook or Outlook Express Inbox. (This utility may or may not be compatible with other email applications.)

ATI Mobility Radeon VGA Driver

Topics Covered:

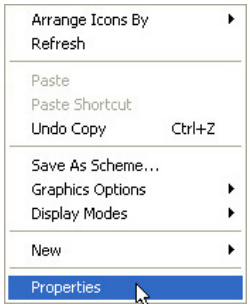
Display Properties and Settings

Screens will vary depending on your operating system but the contents should be the same.

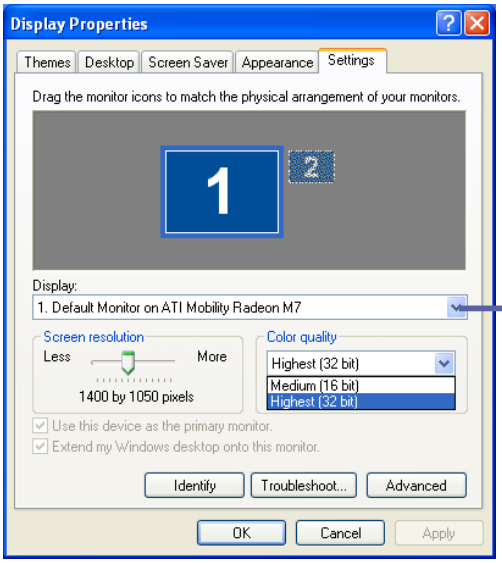
Display Settings for Windows XP

Display Properties

By right clicking your desktop and selecting **Properties**, you can view your display properties. For advanced graphics controller settings, click the **Advanced** button.

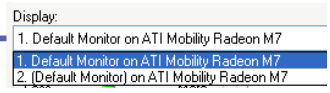


Using Windows Display Properties



Dual View Funtion

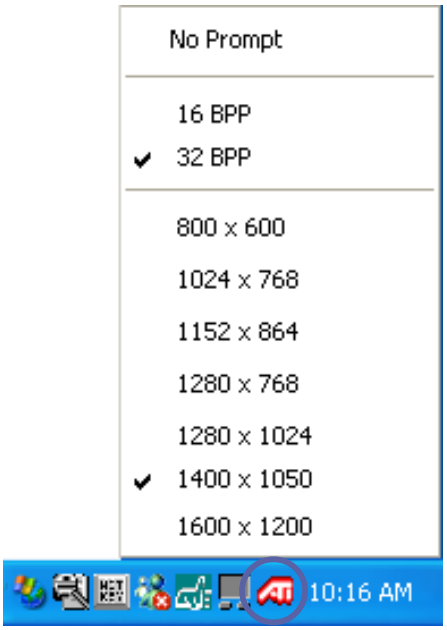
If you connect an external display, you can select Display 2 and extend your desktop onto the second display.



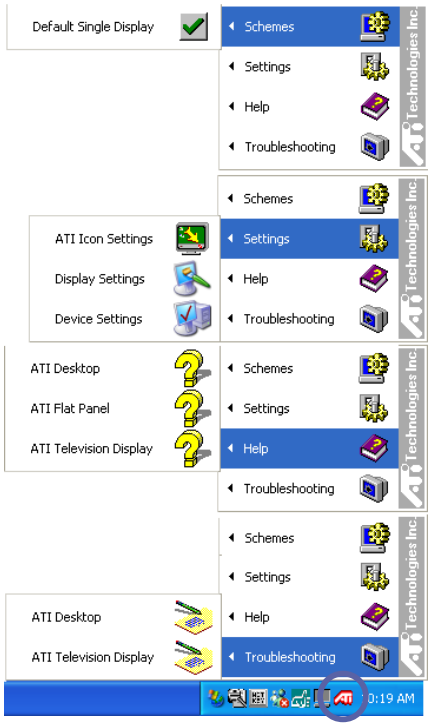
You can set each display independently by choosing monitor 1 or 2 here.

Using the Taskbar Icon

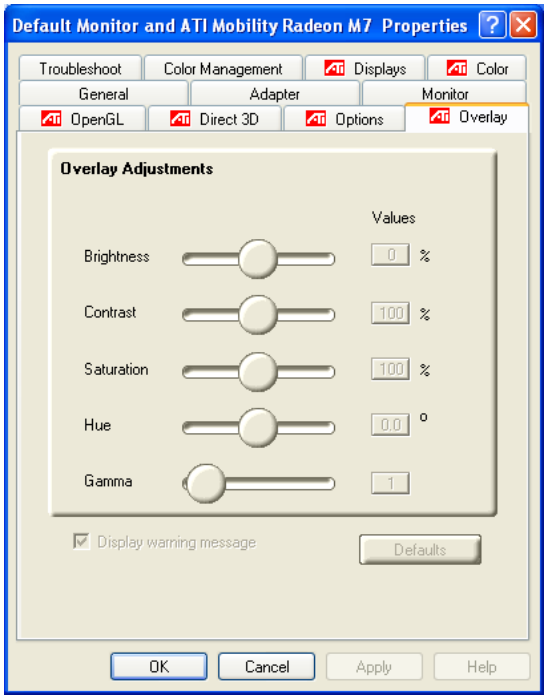
Left-click the ATI icon on the taskbar to bring up shortcuts to screen resolution settings.



Right-click the ATI icon on the taskbar to bring up shortcuts to other display settings.

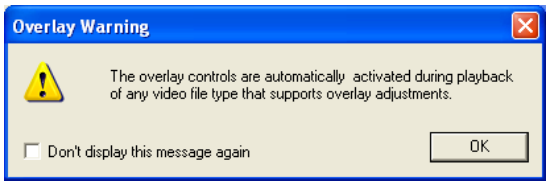


Only the tabs with the ATI logo are installed with the Notebook PC's VGA driver. The other tabs are part of the Windows operating system and will not be shown here.



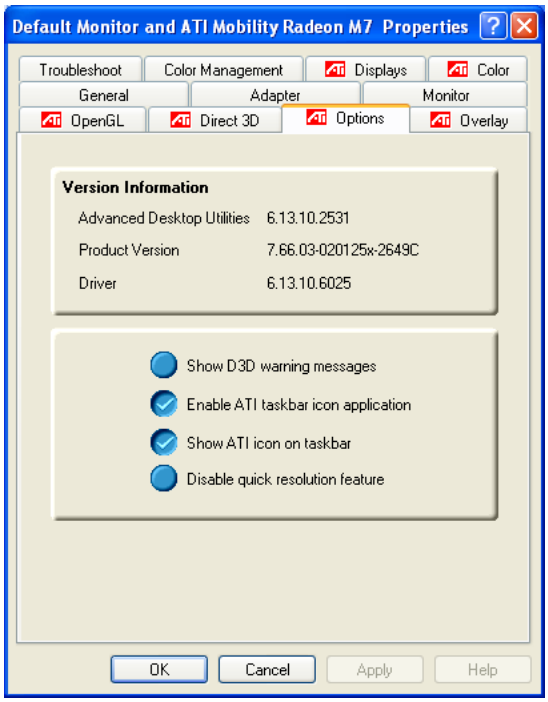
Overlay

This page allows you to make color and brightness settings for video playback.



Overlay Warning

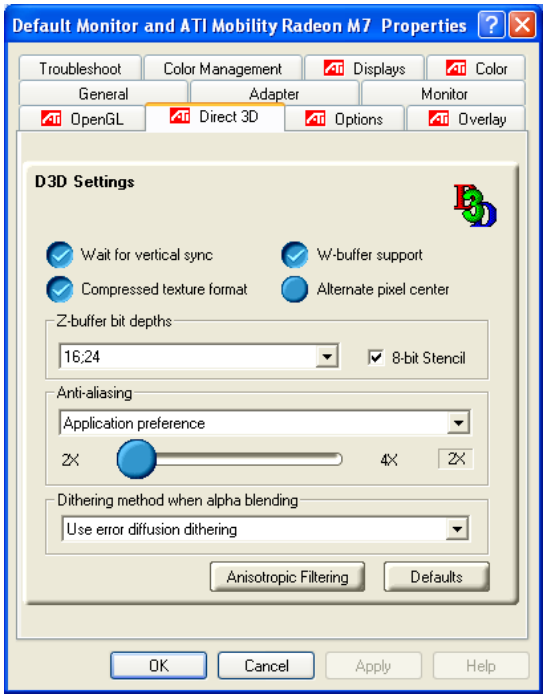
The overlay controls are automatically activated during playback of any video file type that supports overlay adjustment. This is to explain that you will only see the results of these settings in certain video files.



Options

This page allows you to enable or disable a few ATI options.

Only the tabs with the ATI logo are installed with the Notebook PC's VGA driver. The other tabs are part of the Windows operating system and will not be shown here.



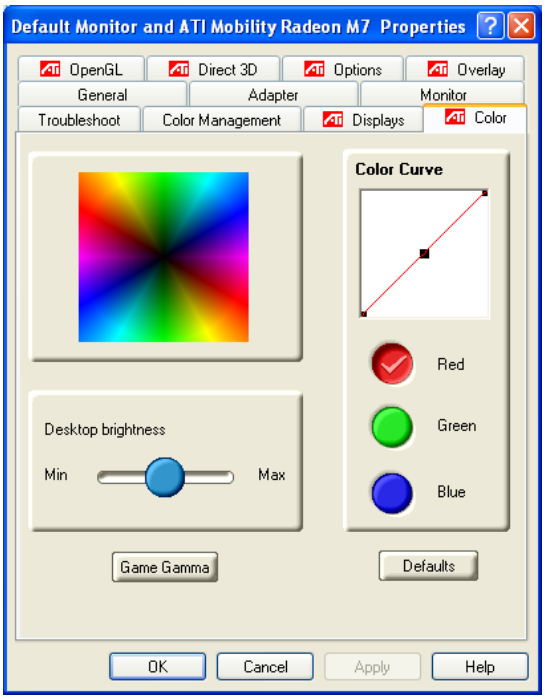
Direct 3D

This page allows you to make Direct 3D settings. Settings will not be utilized unless you run an application specifically using Direct 3D.

OpenGL

This page allows you to make OpenGL settings. Settings will not be utilized unless you run an application specifically using OpenGL.

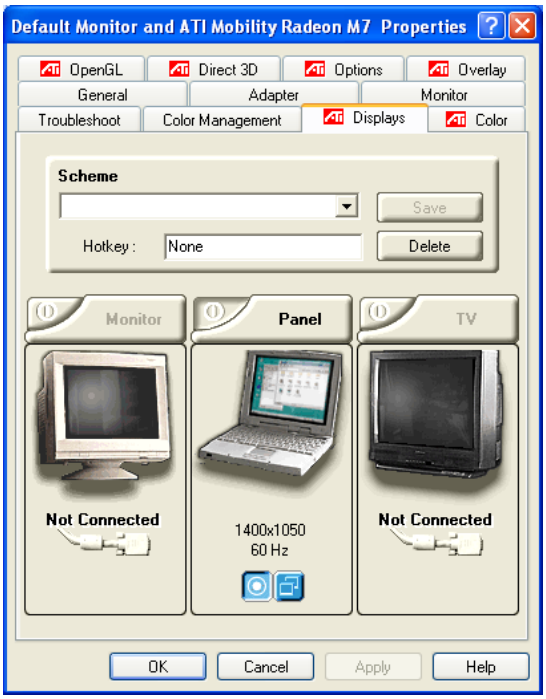
Only the tabs with the ATI logo are installed with the Notebook PC's VGA driver. The other tabs are part of the Windows operating system and will not be shown here.



Color

This page allows you to make color, brightness, and gamma adjustments for each RGB color individually or all together.

When changes are made, **Defaults** can be used to easily return to factory settings.



Display connections will be auto-detected and "Not Connected" will be shown for displays that are not detected.

If additional displays are detected, the ON/OFF button will be shown with Green representing ON and Red represented OFF.

Intel Application Accelerator

Topics Covered:

Overview

Operating Systems not supported

General Features

Component Overview

Parameters

Screens will vary depending on your operating system but the contents should be the same.

Overview

The Intel® Application Accelerator is a software package designed specifically to increase the performance of applications and computer systems running Intel® Pentium® III or Pentium® 4 Processor. This is achieved by use of several methods:

1. Intel® Application Accelerator Driver - This technology increases the performance of the Input/Output subsystem transfer rate, greatly enhancing the system speed.
2. Intel® Advanced Pre-Fetch Module - With this technology, available for Pentium® 4 processor based systems running Microsoft* Windows* 2000 Professional and Windows XP only, an overall additional performance enhancement is realized for Windows 2000 and Windows XP - based applications.

Software installation is flexible and fully automated for Microsoft* Windows* 98, Windows 98 Second Edition (SE), Windows Millennium Edition* (Me), Windows NT* 4.0, Windows 2000 Professional, and Windows XP Home Edition and Professional operating systems.

Operating Systems not supported

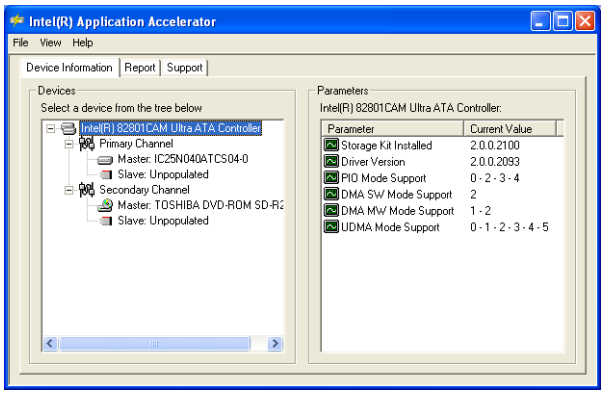
- Any Version of Microsoft Windows 3.1
- Any Version of Microsoft Windows 95
- Any Version (including service pack) of Microsoft Windows NT 3.51
- Microsoft Windows 2000 Server, Windows 2000 Advanced Server, and Windows 2000 Data Center
- Microsoft Windows XP Server, Windows XP Advanced Server, and Windows XP Data Center
- Linux*
- UNIX*
- BeOS*
- MacOS*
- OS/2* (any version)
- DOS

* Other brands and names may be claimed as the property of others.

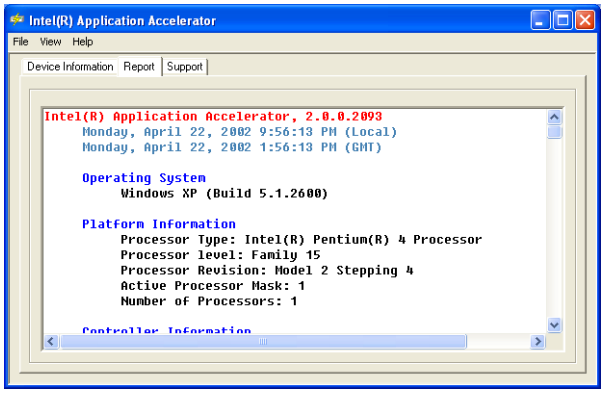
General Features

Intel® Application Accelerator has the following features available in property pages:

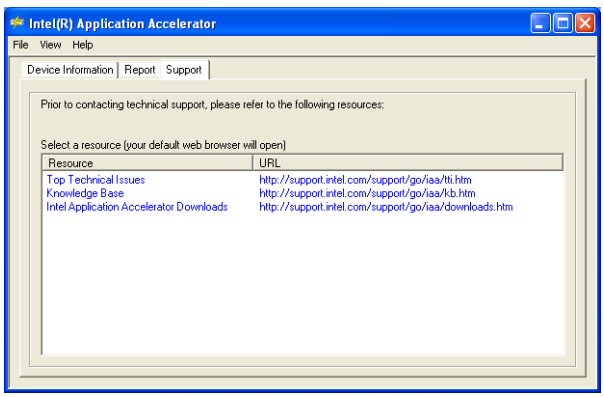
Device Information - This property page, available for all matching system configurations, displays information generated and passed-down from the Intel® Application Accelerator Driver component. Various parameters are seen giving information about the computer's IDE drive, transfer rates, and controller versions.



Report - This property page, available for all matching system criteria's, displays a report for support purposes about information relevant to the IDE controller, the IDE channel, and the IDE drive. This report also has the ability to be printed, saved as a text file, and viewed in an external viewer.



Support - This property page, available for all matching system criteria's, displays support information, such as support websites and various string text for information, as well as any other information relevant to support of the product.



* Other brands and names may be claimed as the property of others.

Component Overview: Intel® Application Accelerator Driver

The Intel® Application Accelerator Driver component is a Windows* Hardware Quality Labs <http://www.microsoft.com/hwtest/default.asp> (WHQL) certified component designed specifically with the intention to increase the disk to system subsystem speed.

The Intel® Application Accelerator has the ability to query the storage component via an IOCTL interface and to obtain detailed Ultra ATA Controller and device information, which is displayed in the Device Information Property Page, which can be saved to a file and displayed in the Report Property Page.

In addition, a refresh function can be used to refresh the Device Information Property Page when devices are swapped under mobile configurations. The refresh function can be activated by pressing the "F5" function key, located on the keyboard, or by clicking on the menu found at "View" then "Refresh F5".

Component Overview: Displaying Controller and Device Information

When opened, the Devices window in the Device Information property page contains entries for the Intel® Ultra ATA controller and all connected ATA/ATAPI. Selecting a particular controller or device in the Devices window causes the application to display the corresponding configuration parameters in the Device Information window. Parameters shown with an oscilloscope icon are read-only; parameters shown with a wrench icon are read-write. The various parameters are described below on the next screen:

Controller Parameters:

Name	Description
IDE Controller	Controller product name
Driver Version	Device driver version
VxD Build (1)	VSD device driver product name
VxD Version (1)	VSD device driver version
PIO Mode Support	PIO modes supported by controller
DMA SW Mode Support	Single-word DMA modes supported by controller
DMA MW Mode Support	Multi-word DMA modes supported by controller
UDMA Mode Support	Ultra DMA modes supported by controller

Device Parameters:

Name	Description
Firmware	Device firmware revision
Serial #	Device serial number
PIO Mode Support	PIO modes supported by device
DMA SW Mode Support	Single-word DMA modes supported by device
DMA MW Mode Support	Multi-word DMA modes supported by device
UDMA Mode Support	Ultra DMA modes supported by device
Disk Size (2)	Total size of disk
Current Transfer Mode	Device's current, configured transfer mode
Transfer Mode Limit	Used to limit Current Transfer Mode, applies to any device connected to that cable position
Cable Type (Host)	Reports if system BIOS recognizes the device is connected via a 40- or 80-conductor ATA cable

Synaptics TouchPad

Topics Covered:

Overview of the TouchPad
Scrolling Properties Page
Tap Zones Properties Page
More Features Properties Page
Button Actions Properties Page
Touch Properties Page
Edge Motion Properties Page
Frequently Asked Questions

Screens will vary depending on your operating system but the contents should be the same.

Overview of Synaptics® TouchPad Features

Your Synaptics TouchPad is much more powerful than an old-fashioned mouse. In addition to providing all the features of an ordinary mouse, your TouchPad allows you to:

- Tap on the Pad Instead of Pressing the Buttons
- Drag Icons, Windows and Other Objects without Using Buttons
- Adjust the Overall Touch Sensitivity
- Customize Buttons and Taps
- Prevent Accidental Pointing While Typing (also known as Palm Check)
- Scroll Through a Document Without Using Scroll Bars
- Zoom In/Out and Pan on Documents
- Move the Pointer Long Distances
- Fine Tune the Pointer Movement

Tap on the Pad Instead of Pressing the Buttons

Tapping on the surface of the pad is the same as clicking the left mouse or TouchPad button (i.e. the primary TouchPad button). Tapping is usually quicker and more convenient than using the button. To double-click, just tap twice. A light, quick tap works best; very hard or very slow taps are less likely to work.

Drag Icons, Windows and Other Objects without Using Buttons

Often, you need to hold the mouse or TouchPad button down while moving the pointer (to move an icon or window around the screen, for example). This action is called dragging. Just like clicking and double clicking, you can also drag without using the button.

To move or drag an object (equivalent to pressing and holding the left TouchPad button):

1) Position the pointer over the object and tap twice, down-up-down, leaving your finger on the TouchPad on the second tap. This action is sometimes called tap-and-a-half.
2) Now move the selected object by sliding your finger across the TouchPad surface.
3) Lift your finger to drop the object.

Tap-and-a-Half

You might wonder what happens when you reach the edge of the pad and you are dragging an object. The Synaptics TouchPad has a feature called Locking Drags. This feature allows you to lift your finger from the pad without ending the drag. You can drag an object across the screen using several finger strokes. To end a Locking Drag action, tap again. The Synaptics TouchPad also has a feature called Edge Motion to help with long distance dragging. See Move the Pointer Long Distances for details.

The Tap and Drag and Locking Drags features are located on the Touch Properties Page in the Mouse Properties dialog.

Adjust the Overall Touch Sensitivity

You can control how much finger pressure you must apply before the TouchPad responds by adjusting the Touch Sensitivity slider. This slider is located on the Touch Properties Page in the Mouse Properties dialog.

At higher (more sensitive) Touch Sensitivity settings, the TouchPad recognizes even a very slight touch. If you see undesired or erratic pointer motion, try a lower setting. Lower (less sensitive) settings require a firmer touch to move the pointer. In general, a lighter touch works best.

Customize Buttons and Taps

Most TouchPads come with two buttons that work just like traditional mouse buttons. You can customize the behavior of these buttons.

Tapping on the TouchPad surface also performs the same action as pressing a button. Tapping in the center of the pad will always produce a left-click (the action of the primary button), but you can configure each of the four corners of the TouchPad surface to act as different buttons. These special corner regions are called tap zones . With four corner tap zones, the center of the TouchPad, and the two physical buttons you can turn your TouchPad into a seven-button mouse!

A customization example:

Suppose you want to use your TouchPad like a three-button mouse. You can configure the left TouchPad button to produce middle clicks when pressed. Remember that tapping on the TouchPad will produce left clicks, and pressing the right TouchPad button will produce right clicks. For additional convenience, you can configure the top right corner tap zone of the TouchPad to produce right clicks. Looking at the TouchPad surface in the picture below, taps in the top right corner (the red shaded area) will produce right clicks, but tapping anywhere else on the TouchPad (the solid gray area) produces left clicks.

An Example TouchPad

There are many different actions that you can assign to the buttons and tap zones. The following actions are provided as built-in features with the Synaptics TouchPad device driver. Additional actions might be available if you have installed any third-party TouchPad Plug-In software.

- Jump to the Start Button. This action causes the pointer to jump to the Start button in the Windows task bar and automatically opens the Start Menu.
- Jump to the current application's menu. This action causes the pointer to jump to the leftmost entry in the application's window menu (usually the File menu) and automatically pops up the submenu.
- Minimize the current application. This action minimizes the current application's window. If the current application's window is already minimized, this action will restore it to its normal size and location.
- Maximize the current application. This action maximizes the current application's window (expands it to cover the full screen). If the current application's window is already maximized, this action will restore it to its normal size and location.
- Run a program of your choosing. This action allows you to specify the name of any program you want to run automatically when you click the button or tap in the tap zone.

To customize taps and buttons, go to the Button Actions Properties Page in the Mouse Properties dialog.

Prevent Accidental Pointing While Typing

Unintentional pointer movement and accidental taps can be caused by accidentally brushing the surface of the TouchPad with your palm or another part of your hand. The results of this contact can be observed as a changing cursor location when typing, causing subsequent text to appear in the wrong place. Or text may "spontaneously" be highlighted and replaced. Most often, this unwanted pointing activity occurs when typing on the keyboard. The TouchPad can detect and prevent accidental and unwanted pointer movement while you are typing.

If you see unwanted pointer movement occurring while you are typing, you can adjust the Palm Check slider located on the Touch Properties Page in the Mouse Properties dialog. Move the slider thumb to the right towards Maximum. Now accidental brushes of your hand on the TouchPad while you are typing are more likely to be ignored.

On the other hand, in the midst of typing, you might purposefully use the TouchPad to point and click, and sometimes the TouchPad may not seem to respond. In this case, move the slider thumb to the left towards Minimum. Now pointing during typing is less likely to be interpreted as an accidental brush with the pad surface, and will not be ignored.

Scroll Through A Document without Using Scroll Bars

Virtual Scrolling allows you to perform a very common task – scrolling documents – without having to move the pointer away from your work. By simply sliding your finger up and down the right edge of the TouchPad, the contents of the current window will scroll vertically. Similarly, by sliding your finger left and right along the bottom edge of the TouchPad, the contents will scroll horizontally. You no longer need to laboriously maneuver the pointer to the small scroll bar elements; you can scroll no matter where the pointer happens to be.

Virtual Scrolling works with document windows (like word processors and spreadsheets), and it also works with file lists, font lists, and other scrollable items. As a rule, you can use Virtual Scrolling when you are working in any window that has a scroll bar.

And Virtual Scrolling does more than just make scrolling more convenient. It also can make scrolling smoother. When you scroll by dragging the scroll thumb with the mouse, many applications do not re-display the document window until you release the mouse button. Virtual Scrolling makes navigation through documents easier, because it forces the application to re-display the window contents as you scroll.

How do I use Virtual Scrolling?

To customize the Virtual Scrolling feature, go to the Scrolling Properties Page located in the Mouse Properties dialog.

Zoom In/Out and Pan on Documents

Note that zooming and panning only work in applications that support the Microsoft Intellimouse. With Intellimouse aware applications, you can zoom and/or pan to quickly maneuver your way through lengthy documents. To jump to a distant location within your document, zoom out, click on the desired location, then zoom in. To scroll horizontally and vertically at the same time, simply pan in a diagonal direction!

Move the Pointer Long Distances

Suppose you are dragging an object, scrolling at high speed (via Virtual Scrolling!), or merrily moving the pointer when you suddenly reach the edge of your TouchPad. Don't despair, the Synaptics TouchPad Edge Motion feature comes to the rescue! Edge Motion helps with long distance pointer motion. When you reach an edge of the TouchPad, the pointer (or scroll thumb when Virtual Scrolling) continues to move in the same direction until you lift your finger from the TouchPad or move your finger away from the edge.

Edge Motion speed can be pressure-sensitive or constant. Pressure-sensitive speed means that the harder you press, the faster the object or pointer moves.

You can configure the Edge Motion feature on the Edge Motion Properties Page in the Mouse Properties dialog.

Fine Tune the Pointer Movement

The Synaptics TouchPad has many additional features to help you control the way your pointer moves. Please take a look at the list of additional features.

Accessories

Your TouchPad is a productivity enhancing tool, designed for serious work. But we think it should also be fun. We have included two fun application programs that demonstrate some of the capabilities of the Touch-Pad: Pressure Graph and The Incomparable, Mysterious Synaptics MoodPad.

To run these applications, click once on the Synaptics TouchPad Icon in the Taskbar, go to the Accessories menu and select the desired application.

More About the TouchPad

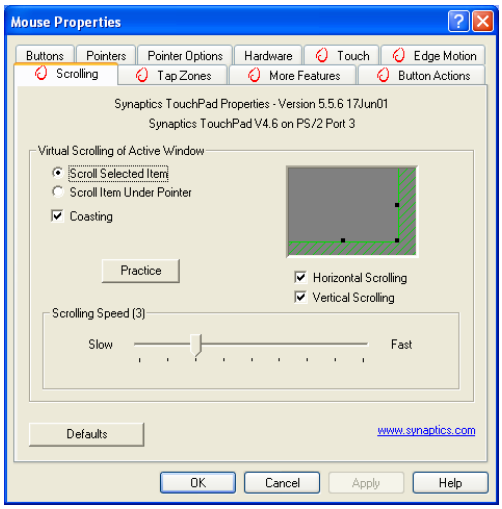
The TouchPad detects your finger by capacitive sensing (it is not sensitive to heat or applied force). As your finger approaches the pad, it alters the electric field in the vicinity of the pad surface. The TouchPad sensor is just a circuit board with a matrix of conductive traces printed on the top surface. A special chip on the back side of the TouchPad continuously measures the capacitance of these traces, and thus can determine the presence and location of your finger.

To get the most out of your TouchPad, be sure that the TouchPad driver software is installed. If the Synaptics TouchPad driver is properly installed, the Mouse Properties dialog will include several TouchPad tabs along the top in addition to the standard mouse tabs.

Property Pages

The property pages allow you to customize TouchPad settings for your Notebook PC. The following pages will describe each property page with the Synaptics logo. The "Buttons", "Pointers", and "Pointer Options" pages come with Windows and should be described in Windows documentation.

Scrolling Properties Page



The Scrolling properties page allows you to customize the Virtual Scrolling capabilities of your TouchPad.

In some applications, the scroll zones which activate Virtual Scrolling can be used for zooming too.

Enabling Virtual Scrolling of the Active Window

Check the appropriate boxes on this page for the type of Virtual Scrolling that you prefer:

- Horizontal Scrolling
- Vertical Scrolling
- Coasting

Choose where you want Virtual Scrolling to occur:

- Scroll Selected Item

- OR -

- Scroll Item Under Pointer

Customizing Scroll Zone Sizes

This page includes a small map of the TouchPad with the scroll zones shaded in red. See the Scroll Zone TouchPad Map for a more detailed description.

You can adjust the size of each zone by dragging one of the black resize handles on the TouchPad map. If you are having trouble activating the Virtual Scrolling feature, you might want to try making the scroll zones wider. If you find that scrolling sometimes gets activated when you didn't mean to scroll, try narrowing the scroll zones.

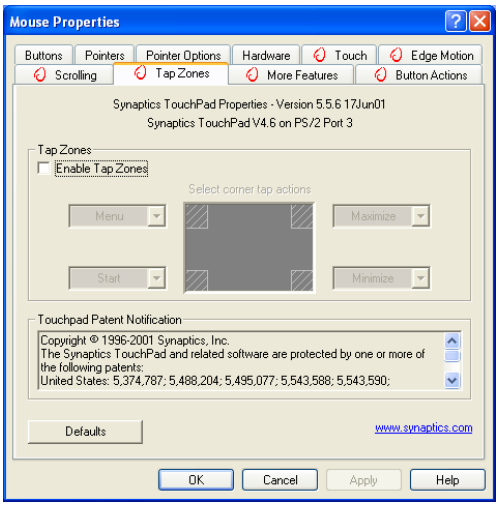
Customizing Virtual Scrolling Speed

You can control the speed of Virtual Scrolling by adjusting the Scrolling Speed slider on this page. Drag the slider thumb to the right for faster scrolling.

Tap Zones Properties Pages

The Tap Zones properties pages allow you to assign custom actions to taps in the Touchpad's corner zone regions (or tap zone regions).

The Synaptics TouchPad driver may also control other pointing devices attached to your system. If the Synaptics TouchPad driver is controlling more than one pointing device on your system, the Synaptics pages on the Mouse control panel will have a drop-down box listing all of the pointing devices that are controlled. You may set separate settings for each by selecting the appropriate device (settings which don't apply to a particular pointing device will be grayed out).



Customizing the Tap Zones

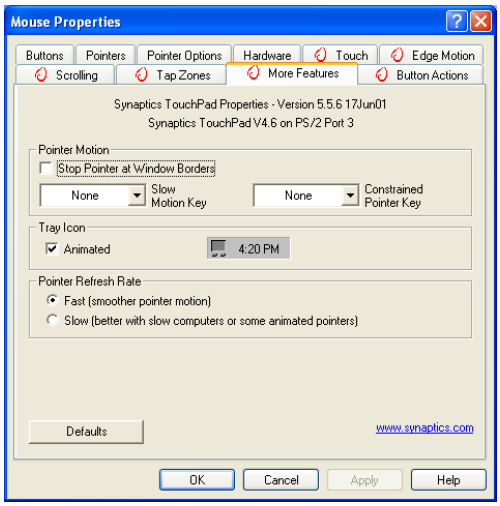
When the tap zones are enabled, each tap inside a corresponding tap zone region on your TouchPad can have a different meaning or action. For example, you can define the upper right corner tap zone to mean right clicks. Then when you tap your finger on the upper right corner of your TouchPad, it is as if you are clicking the right mouse or TouchPad button.

This page includes a small map of the TouchPad with the active tap zones shaded in red. Next to each zone is a text box specifying the action for that zone.

To Customize:

1. To activate the corner tap zones, check the box next to the text Enable Tap Zones. An unchecked box means that all taps on every part of the TouchPad surface will have left-click behavior.
2. To change an action for a particular zone, locate the text box nearest the zone. The text box displays the current action for this zone (for example, it might say No Zone which means that this particular zone is disabled and any taps here will produce the default left-click action). Click on the down arrow button located to the right of the text to display a list of actions. Select the desired action.
3. Each tap zone can be resized to be as large or as small as you desire by dragging one of the black resize handles located on the TouchPad map.

More Features Properties Page



The More Features properties page allows you to control the following features of you Synaptics TouchPad:

Stop Pointer at Window Borders

This feature constrains the pointer to stay inside the active window. When you try to move the pointer outside the window, it stops at the edge. If you try a second time, the pointer is free to leave the window.

Stopping the pointer at the window borders makes it easy to access controls that lie around the edges of windows. For example, to close or resize a window, you can casually toss the pointer in the general direction of the close box or the edge of the window, and the pointer will stop exactly where you want it.

Snap to Default Button

This feature automatically moves the pointer to the Default Button when a dialog box appears on your screen.

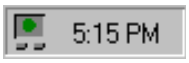
Slow Motion Key

Sometimes you might need more accuracy when pointing with the TouchPad, such as in a drawing program. The speed of the pointer can make this type of accuracy difficult to obtain. To slow down the pointer movement, you can specify a slow motion key. Then, for slow pointer movement, press and hold this key as you move the pointer.

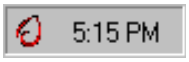
Constrained Pointer Key

At times you may want to restrict the pointer to move only horizontally or only vertically. You can specify a constrained pointer key, then press and hold this key as you move the pointer. The initial pointer direction when holding this key determines whether the pointer is constrained to move only horizontally or only vertically.

Synaptics TouchPad Tray Icon



The Synaptics TouchPad tray icon appears in the Windows Taskbar near the clock. You can choose between two icons:



This is the animated Touch Meter icon. The size of the dot on the touch meter indicates the amount of finger pressure. The icon turns blue while Virtual Scrolling is in progress.

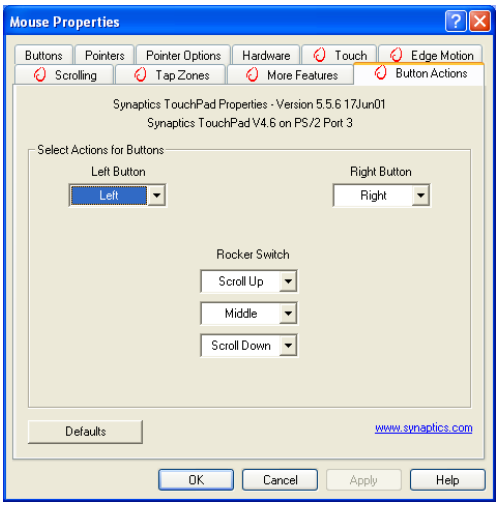
This is the non-animated Synaptics logo icon.

You can access the “TouchPad Properties” dialog by double clicking on either tray icon.

Button Actions Properties Page

The Button Actions properties page allows you to customize the physical buttons of your TouchPad.

The **Rocker Switch** settings are available on Notebook PC's with scroll buttons between the left and right buttons.



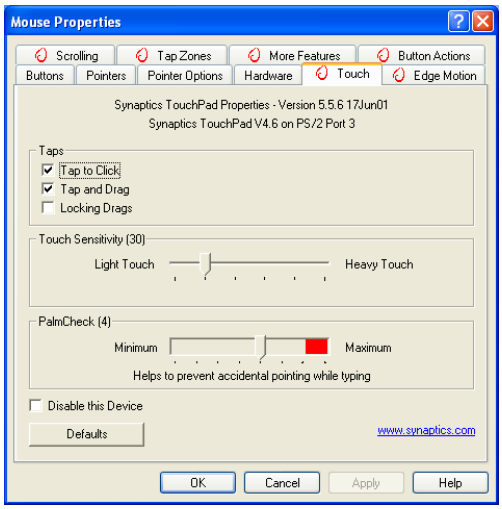
Customizing Button Assignments

You can customize the TouchPad buttons in the same way that you customize the tap zones.

To Customize:
Each button has a text box that displays the current action (for example, it might say Left, which means the left-click or primary-click action). To display a list of possible actions, click on the down arrow button located to the right of the text. Select the desired action.

Touch Properties Page

The Touch properties page allows you to customize the tap response and sensitivity of your TouchPad.



Taps

Check the appropriate boxes in the Taps section of the Touch Properties Page for the tapping capabilities that you prefer:

- Tap to Click
- Tap and Drag
- Locking Drags

Touch Sensitivity

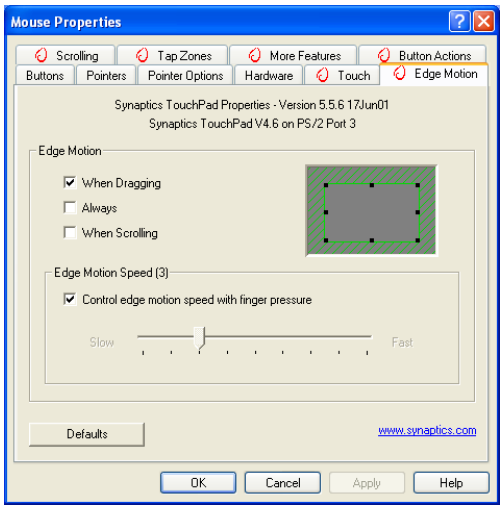
Use the Touch Sensitivity slider to control how much finger pressure you must apply before the TouchPad responds. See Adjust the Overall Touch Sensitivity.

Palm Check

The Palm Check slider controls the TouchPad's detection of accidental and unwanted pointing movement. In addition to detecting palm contact with the TouchPad, the TouchPad can ignore much of the accidental and unwanted pointer movement that may occur while typing (due to accidentally contacting your TouchPad). See Prevent Accidental Pointing While Typing for more details.

Edge Motion Properties Page

The Edge Motion properties page allows you to customize the long distance pointer motion capabilities of your TouchPad. When your finger reaches the edge of your TouchPad, the Edge Motion feature allows the pointer to continue to move until you lift your finger. See Move the Pointer Long Distances for more details about the Edge Motion feature.



Enabling Edge Motion

Check the appropriate boxes on this page for the types of Edge Motion that you desire:

- When Dragging
- Always
- When Scrolling

Customizing Edge Zone Sizes

This page includes a small map of the TouchPad with the edge zones shaded in red. See the Edge Zone TouchPad Map for a more detailed description. You can adjust the size of each zone by dragging one of the black resize handles on the TouchPad map. If you are having trouble activating the Edge Motion feature, you might want to try making the edge zones wider.

Customizing Edge Motion Speed

During Edge Motion, the speed at which the pointer (or dragged object or Virtual Scrolling scroll thumb) moves can be pressure-sensitive or constant. With pressure-sensitive speed, the harder you press the faster the object or pointer moves. For this type of speed, check the box labeled Control edge motion speed with finger pressure.

If you prefer a constant speed for Edge Motion, you can adjust the speed with the Edge Motion speed slider located on this page.

Frequently Asked Questions

Q: When I use Virtual Scrolling, the pointer jumps over to the scroll bar, and then jumps back where it came from when I'm done. Is this normal?

A: Yes.

Q: Why doesn't the Virtual Scrolling feature work in some windows, even though they have a scroll bar?

A: In order to scroll, Virtual Scrolling must be able to "see" the window's scroll bar. If the scroll bar is partially obscured by another window, or partially off the screen, then Virtual Scrolling will not activate in that window. In general, a window's scroll bar must be entirely on the screen, and fully visible, in order to use Virtual Scrolling in that window. There is an exception to this rule: Virtual Scrolling has "special knowledge" about many common types of windows, and can scroll them even if their scroll bars are not visible on the screen. A very small number of applications use nonstandard scroll bars that might not work reliably with Virtual Scrolling.

Q: Why do some windows scroll smoothly, while others re-display their contents only occasionally as I scroll?

A: The way a window responds to its scroll bars is entirely up to the application which owns that window. Some applications "smooth-scroll," while others wait until you release the scroll bar before updating their contents. Virtual Scrolling "knows" about many common applications and window types, and uses this knowledge to "trick" many windows into smooth-scrolling (Microsoft ® Word ™ document windows, for example, do not normally smooth-scroll, but they do when you use Virtual Scrolling). If Virtual Scrolling does not "know" about a particular type of window, it still approximates smooth-scrolling by causing the window to re-display when your finger slows down or stops. This can help you more accurately scroll to the right place in a document.

Q: Why does the scroll thumb sometimes "jump around" when I scroll, and not go exactly where the pointer is?

A: Again, the application actually has complete control over the way the scroll thumb moves. Depending upon the window contents, some applications will actually prevent you from moving the scroll thumb to certain locations. Sometimes, the scroll thumb is only "allowed" to come to rest at one or two positions along the scroll bar! In these cases, even if you were to manually drag the scroll thumb with the pointer, you would find that it would "jump" to a final location when you released it. Virtual Scrolling, unfortunately, cannot control how applications manage their scroll bars.

Q: Why doesn't Virtual Scrolling work properly with Microsoft Internet Explorer?

A: Make sure you are using Internet Explorer version 4.01 or later, and that the Use Smooth Scrolling option on the Advanced page of the Internet Explorer Properties dialog is NOT checked.

Q: When I press and hold the shift key or the control key (CTRL), the pointer movement is either very slow or restricted to move only horizontally or only vertically. What is happening?

A: The shift keys and the control keys are special and are used for various things, such as selecting multiple files in Microsoft Windows Explorer or for zooming in and out on a spread sheet in Microsoft Excel. These keys can also be used for special pointer movement, such as for slowing the pointer down or for constraining the pointer to move only horizontally or only vertically. For example, you can assign the left shift key to be the Slow Motion Key. Then when you press and hold the left shift key, the pointer motion will be slower than usual. Note that you can still use this shift key for other special behaviors! You can still press and hold the left shift key to select multiple files in Microsoft Windows Explorer, but the pointer motion will also be a bit slower. If you see slow or constrained pointer movement when pressing shift or CTRL and you want to turn off this special behavior, go to the More Features Properties Page in the Mouse Properties dialog and uncheck the appropriate boxes.

PC-cillin 2000

Topics Covered:

PC-cillin 2000 Features

What's New in PC-cillin 2000

Test Virus

What is a Computer Virus?

How Viruses Spread

Virus Writers

Screens will vary depending on your operating system but the contents should be the same.

Welcome to PC-cillin

Welcome to PC-cillin 2000, Trend Micro's award-winning antivirus software.

Here's what PC-cillin will do "straight out of the box":

- Checks for viruses every time you Open, Copy, Move, or Save a file
- Protects against downloading infected files from the Internet or FTP sites
- Guards against malicious Java applets and ActiveX controls while web surfing
- Monitors your Word and Excel sessions for macro viruses, using MacroTrapTM
- Scans and cleans all files on your hard drive every Friday
- Scans all program files for viruses every month Checks all your saved documents for macro viruses.

Here's what you can do with just the click of a button:

- Scan every file on your system and clean any infected files
- Scan any file from Windows Explorer or My Computer by right-clicking the file icon
- Scan floppy diskettes and clean any infected files
- Check all of your Word and Excel document(s) for macro viruses
- If you use Outlook Express 4.0 or above or Eudora Pro 4.0 or above email clients, scan your email message attachments as they are being downloaded from the POP3 email server.
- Manually scan message attachments in your local Outlook folders

No Limits

Of course, if you're a person who likes to customize your software, there is no limit to the Scan tasks you can configure PC-cillin to perform.

You can "set and forget" as many tasks as you see fit. For each task, you can select the file types you want to scan for viruses, the action PC-cillin will take upon finding a virus (Clean the infected file, Delete it, Quarantine it, Pass it, or Rename / Deny Access to it), and other program details.

Scan Engine

Viruses are detected using Trend's 32-bit, multi-threaded scan engine and a process called pattern matching. In addition to catching known viruses, PC-cillin detects and intercepts previously unknown polymorphic, or mutation, viruses.

MacroTrap

Additional layers of protection come from MacroTrap™, Trend's macro virus scanning engine, which detects and removes both known and unknown macro viruses.

What's New in PC-cillin 2000

PC-cillin 2000 includes the following enhancements over the previous version:

- Windows Support: PC-cillin fully supports Windows. Integration with the Windows installer means that you can install PC-cillin while installing other Windows components. PC-cillin is Windows compliant.
- Antivirus scanning of POP3 mail: If you use Microsoft Outlook Express 4.01 or above or Eudora Pro 4.0 or above as your email client, Trend PC-cillin 2000 will scan your email messages as they download from the POP3 server. Virus-infected attachments are stopped before they ever reach your computer!
- Virus Scanning of Local Outlook Folders: If you use Microsoft Outlook as your email client, Trend PC-cillin 2000 provides on-demand scanning of local folders for virus-infected attachments. Trend PC-cillin will automatically detect an installed copy of Microsoft Outlook on the computer and enable the user interface elements that permit the use of this feature. Please note that this feature does not scan messages stored on a Microsoft Exchange server, but only scans messages in local folders.
- Incremental Virus Pattern Download: No longer do you have to download the entire virus pattern file when updating your software. Trend PC-cillin 2000 supports incremental pattern updates whereby only the virus patterns that have changed since the last update are downloaded. This greatly reduces the download time, saving time and expense that you have to spend on Internet connection charges.
- PC-cillin Can Scan Virtually All Media: PC-cillin 2000 can scan the following types of drives in addition to conventional hard disk drives: CD-ROM, CD-R, CD-RW, PD, FDD, DVD, ZIP and LS120.
- PCSCAN Command Line Scanner Supports Pattern Files Larger Than 1.44 MB: Due to the large number of known computer viruses that have been identified, the virus pattern file is now too large to fit on a single 1.44 MB diskette. The emergency rescue disk creation utility can split the virus pattern file over several diskettes. Additionally, the PCSCAN command line scanner supports virus pattern files that have been spanned over more than one diskette.

What is a Computer Virus?

Simply put, a computer virus is a program that replicates. To do so, it will need to attach itself to other program files (for example, .exe, .com, .dll) and execute whenever the host program executes. Beyond simple replication, a virus almost always seeks to fulfill another purpose: to cause damage.

Called the damage routine, or payload, the destructive portion of a virus can range from overwriting critical information kept on your hard disk's partition table to scrambling the numbers in your spreadsheets to just taunting you with sounds, pictures, or obnoxious effects.

It's worth bearing in mind, however, that even without a "damage routine," viruses allowed to run unabated will continue to propagate—consuming system memory, disk space, slowing network traffic and generally degrading performance. Besides, virus code is often buggy and can also be the source of mysterious system problems that take weeks to understand. So, whether it was written to be harmful or not, a virus on your system can lead to instability and should not tolerated.

Some viruses, in conjunction with "logic bombs," do not make their presence known for months. Instead of causing damage right away, these viruses do nothing but replicate—until the preordained trigger day or event when they unleash their damage routines across the network.

To learn more about any particular virus, or about viruses in general, you can access Trend Micro's online Virus Encyclopedia that comes with the program or visit Trend Micro's web site at: http://www.antivirus.com

Test Virus

The European Institute of Computer Anti-virus Research, along with antivirus vendors, has developed a test file that can be used in checking your installation and configuration.

The file is not an actual virus; it will cause no harm and it will not replicate. Rather, it is a specially created file whose "signature " has been included in the Trend Micro virus pattern file and as such, can be detected by the virus engine.

You can download this file from: http://www.antivirus.com/vinfo/testfiles/index.htm!Internet ("http://www.antivirus.com/vinfo/testfiles/index.htm")

Alternatively, copy the following text into a text editor and then save the file with a *.com extension.

X5O!P%@AP[4\PZX54(P^)7CC)7}$EICAR-STANDARD-ANTIVIRUS-TEST-FILE!$H+H*

You may need to disable real-time scanning before downloading the file. Once on your machine, you can use the test virus to see for yourself how PC-cillin's various scanning features work.

How Viruses Spread

There are many ways for a virus to enter your system:

- Email attachments
- World Wide Web (WWW) sites
- FTP traffic from the Internet (file downloads)
- Shared network files & network traffic in general
- Demonstration software
- Pirated software
- Shrink-wrapped, production programs (rare)
- Computer labs
- Electronic bulletin boards (BBS)
- Diskette swapping (using other people's diskettes for carrying data and programs back and forth)

The most likely virus entry points are email, Internet and network connections, floppy disk drives, and modems or other serial or parallel port connections. In today's increasingly interconnected workplace (Internet, intranet, shared drives, removable drives, and email), virus outbreaks now can spread faster and wider than ever before.

Virus Writers

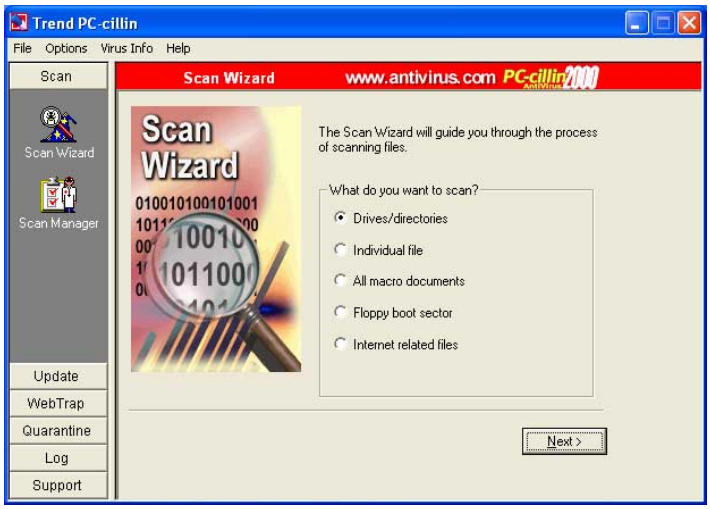
In the typical scenario, it is an individual, working alone, who writes a virus program and then introduces it onto a single computer, network server, or the Internet. Why? Ego, revenge, sabotage, and basic disgruntlement have all been cited as motivations. Recently, do-it-yourself "virus kits" have been popping up on the Internet, and macro scripts are becoming both easier to learn and more powerful, putting the capacity to engineer viruses in the hands of nearly everyone. In other words, no single, likely profile exits by which virus writers can be described or understood.

So whatever the reason one may have for writing a virus, the important thing is to make certain your company is not victimized, that your data you are responsible for is safe, and that precious time is not wasted hunting down (and cleaning up after) viruses.

PC-cillin 2000 Screens

Double click the PC-cillin icon on the taskbar to bring up the real-time scan information page.

The real-time scan information page displays the current virus pattern number and the current files being scanned. You can check the additional scan types to enable virus checking for web or email. Click the large **Main** button to view the program's settings.



The PC-cillin software has features to protect you from Virus threats. Use the **Help** for more information.

Hotkey Utility

Topics Covered:

Hotkey Utility

Buttons

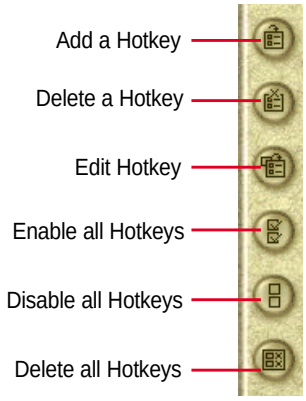
Hotkey Actions

Adding a Program to Run

Screens will vary depending on your operating system but the contents should be the same.

Hotkey Utility

Buttons



The functions of the buttons located on the left side of the program window are labeled here.

Delete a Hotkey

Highlight a Hotkey and click this button to delete it from the current category.

If you did not select a Hotkey, a message will show:

Delete all Hotkeys

Deletes all Hotkeys in the current category. This confirmation will be shown:

Add a Hotkey

You can assign three Hotkeys to the two preset by the utility for a maximum of five. If you don't use the two preset, you can delete them for your own applications.

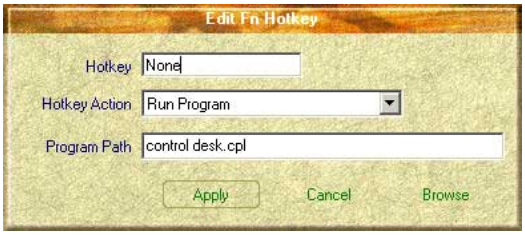
When you choose to add a hotkey, you can specify a key by pressing that key or key combination in the Hotkey box (the <Fn> key cannot be entered and will be automatically added to the "Notebook Fn Hotkey" category). The available Hotkey actions for assignment are shown in the "Hotkey Action" pull down.

If you already have five hotkey settings, you will get this message.

Edit a Hotkey

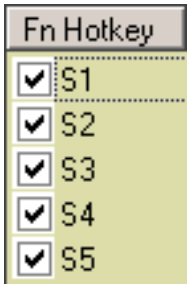
Highlight a Hotkey and click this button to change its Hotkey or action.

You can enter any information just like adding a Hotkey.



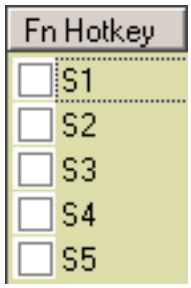
Enable all Hotkeys

Enables all Hotkeys by placing check marks in front of the Hotkeys in the current category.

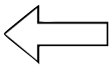
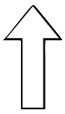
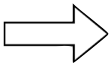


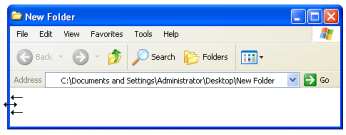
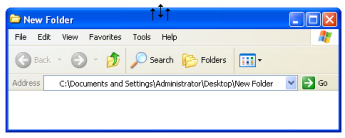
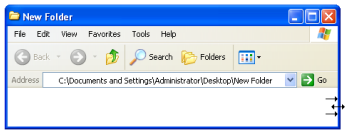
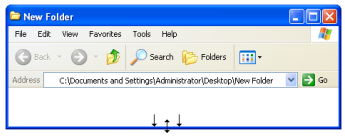
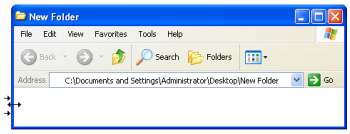
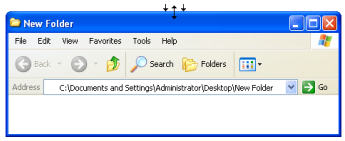
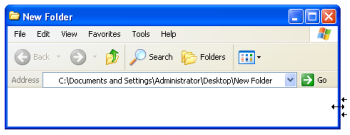
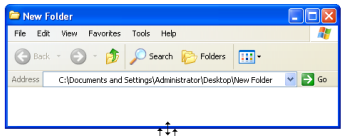
Disable all Hotkeys

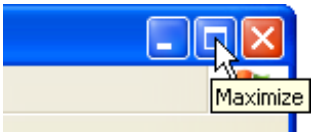
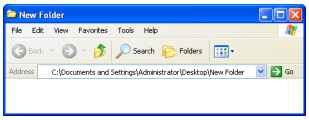
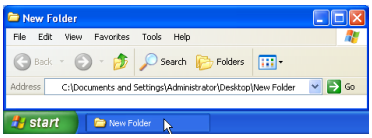
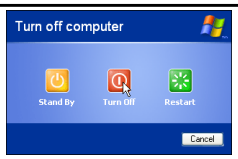
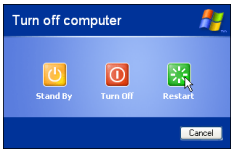
Disables all Hotkeys by removing check marks from the front of the Hotkeys in the current category.



Hotkey Actions

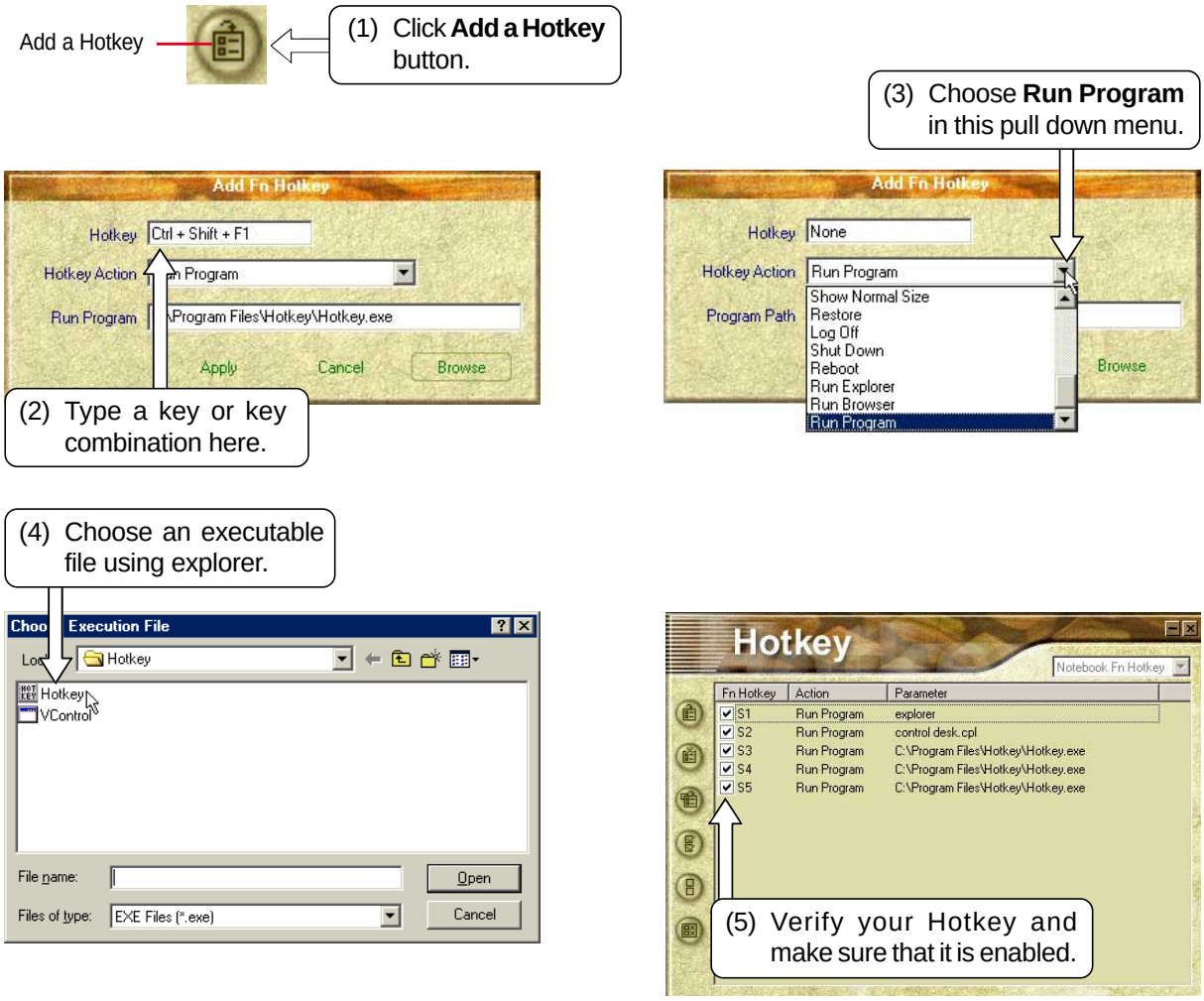
Actions	Descriptions	Examples (of action)
None:	Performs no action	--
Move Window To Left:	Moves the active window left between 1-50 steps	
Move Window To Up:	Moves the active window up between 1-50 steps	
Move Window To Right:	Moves the active window right between 1-50 steps	

Actions	Descriptions	Examples (of action)
Move Window To Below:	Moves the active window down between 1-50 steps	
Extend Window From Left:	Stretches the active window left between 1-50 steps	
Extend Window From Up:	Stretches the active window up between 1-50 steps	
Extend Window From Right:	Stretches the active window right between 1-50 steps	
Extend Window From Below:	Stretches the active window down between 1-50 steps	
Shrink Window from Left:	Shrinks the active window from the left between 1-50 steps	
Shrink Window from Up:	Shrinks the active window from the top between 1-50 steps	
Shrink Window From Right:	Shrinks the active window from the right between 1-50 steps	
Shrink Window From Below:	Shrinks the active window from the bottom between 1-50 steps	

Actions	Descriptions	Examples (of action)
Minimize Window:	Minimizes the active window	
Maximize Window:	Maximizes the active window	
Show Normal Size:	Shows the active window in normal size (user adjustable)	
Restore:	Restores a minimized window to its previous size.	
Log Off:	Logs the current user OFF from the current Windows session and any connected networks.	
Shut Down:	Exits from Windows and turns OFF the Notebook PC.	
Reboot:	Restarts the Notebook PC	
Run Explorer:	Runs Windows Explorer	
Run Browser:	Runs the Internet Browser	
Run Program:	Runs a user defined program	

Adding a Program to Run

To add a Hotkey to run a program follow the steps below.



Windows Flash Utility (WINFLASH)

Topics Covered:

Updating Your BIOS

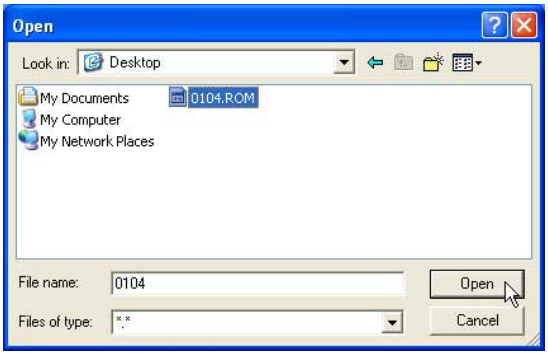
Resetting Your BIOS

Screens will vary depending on your operating system but the contents should be the same.

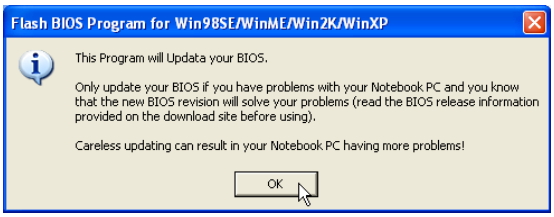
Updating Your BIOS

WINFLASH is a simple utility to update your Notebook PC's BIOS.

To run **WINFLASH**, access the **All Programs** shortcut through the **Start** button.



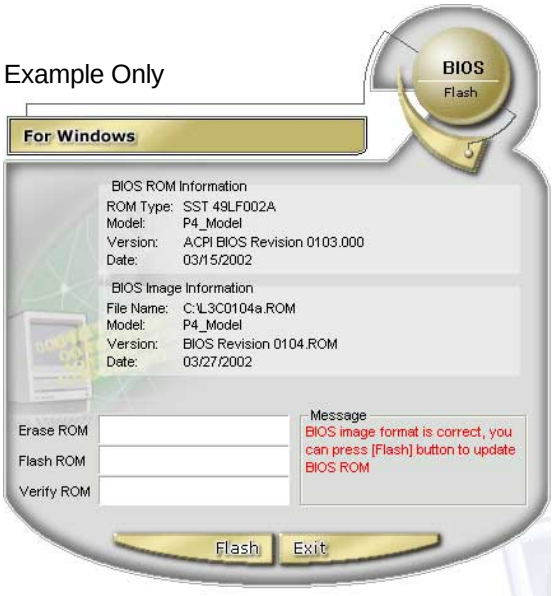
When you enter WINFLASH, you will be immediately asked for the BIOS image file. Browse to the file and click **Open**.



Do not update your BIOS for no reason.

You will be warned that you should only update your BIOS if you know it will solve a specific problem. If you update your BIOS using the wrong BIOS file, your Notebook PC may not boot up.

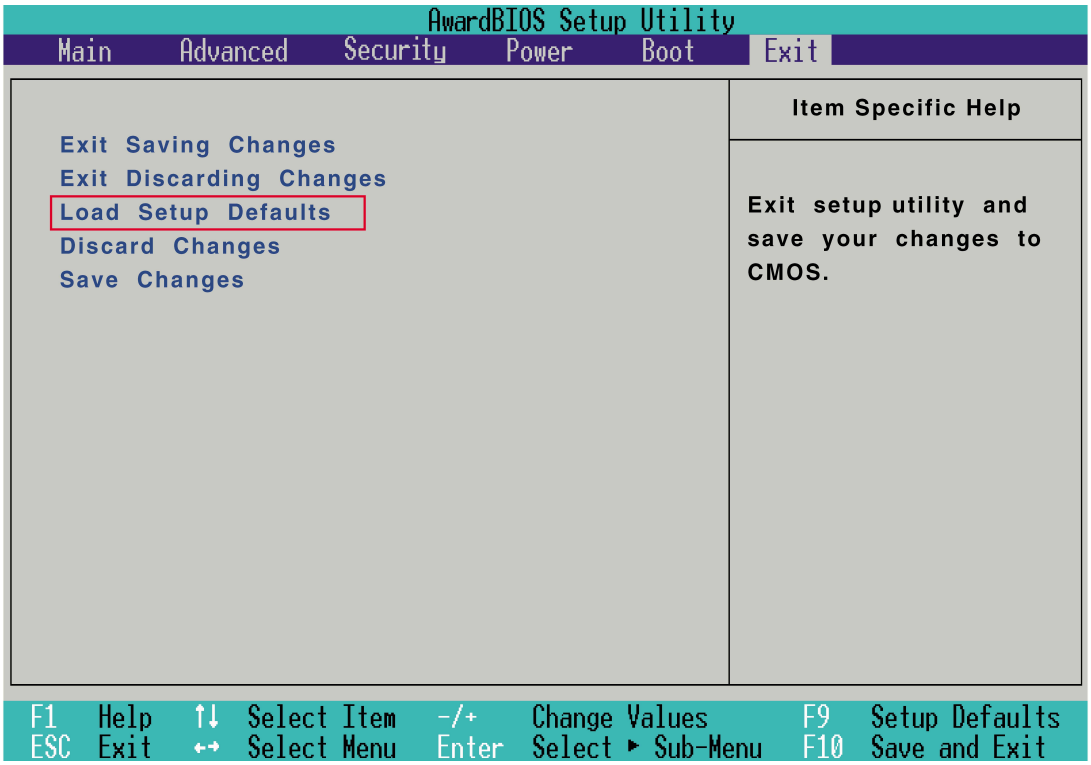
Example Only



Compare the BIOS ROM (your current BIOS) to the BIOS image (the new BIOS). If this is correct, click **Flash** to write the new BIOS to your Notebook PC. You need to restart your Notebook PC and "reset your BIOS". See instructions on the next page.

Resetting Your BIOS

If you ever hear "reset your BIOS", it entails pressing **[F2]** on bootup to enter BIOS setup and selecting **Load Setup Defaults**, and then **Exit Saving Changes** on the "Exit" menu.



ASUS PC Probe

Topics Covered:

Starting ASUS PC Probe
Using PC Probe Monitoring
ASUS PC Probe Task Bar Icon

Screens will vary depending on your operating system but the contents should be the same.

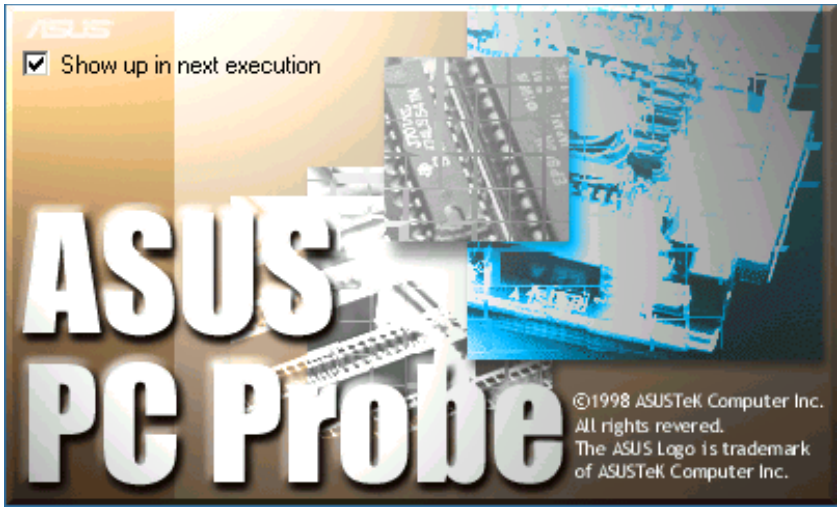
Welcome to ASUS PC Probe

ASUS PC Probe is a convenient utility to continuously monitor your computer system's vital components, such as fan rotations, voltages, and temperatures. It also has a utility that lets you review useful information about your computer, such as hard disk space, memory usage, and CPU type, CPU speed, and internal/external frequencies through the DMI Explorer.

Starting ASUS PC Probe

If the ASUS Probe icon (magnifying glass) is not shown on the taskbar (see below), click the Windows **Start** button, point to **Programs**, and then **ASUS Utility**, and then click **Probe VX.XX**.

When ASUS PC Probe starts, a splash screen appears allowing you to select whether to show the screen again when you open PC Probe or not. To bypass this startup screen, clear the **Show up in next execution** check box.



The PC Probe icon will appear on the taskbar's system tray indicating that ASUS PC Probe is running. Clicking the icon once will allow open the PC Probe interface.

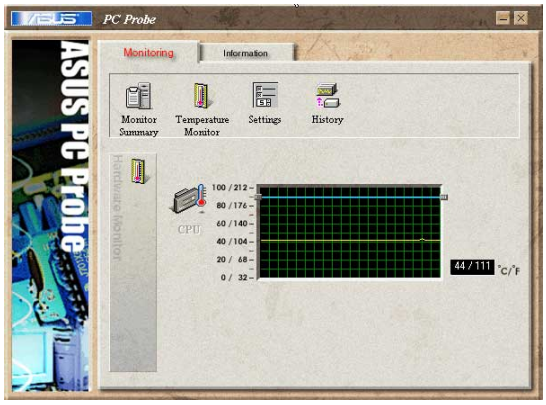
Windows XP Taskbar

Windows XP will hide taskbar items. Click the arrow to show running services.

Using ASUS PC Probe Monitoring

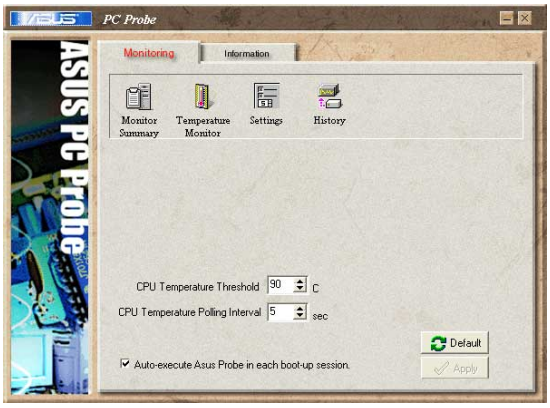
Monitor Summary

Shows a summary of the items being monitored.



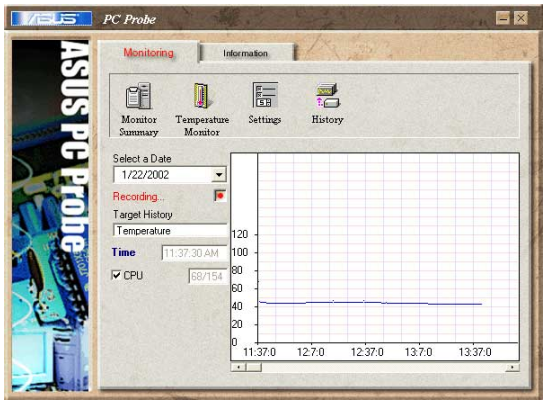
Temperature Monitor

Shows the PC's temperature.



Settings

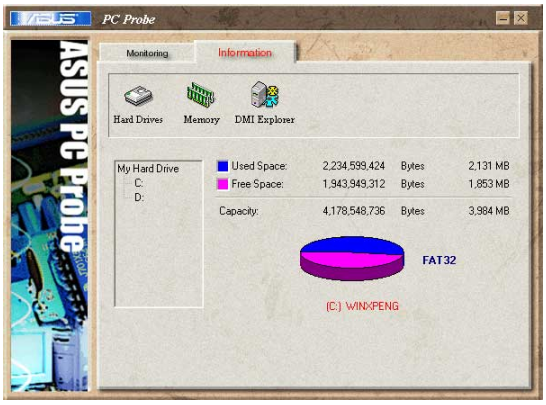
Lets you set threshold levels and polling intervals or refresh times of the PC's temperature, fan rotation, and voltages.



History

Lets you record the temperature monitoring activity by date, time, and target history. Click the record button and select a date. To view a previous recording, simply choose that date.

Information

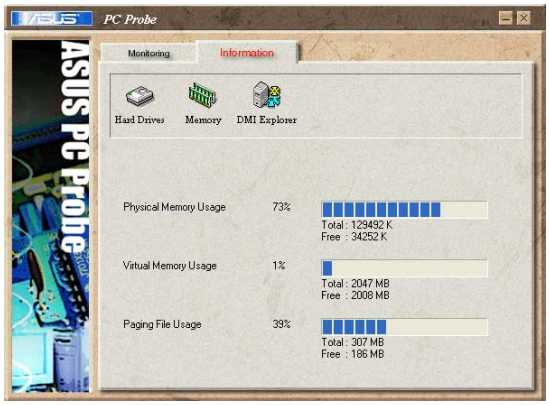


Hard Drives

Shows the used and free space of the PC's hard disk drives and the file allocation table or file system used. Information on other hard drives can be accessed by clicking on the relevant drive letter.

DMI Explorer

Shows information pertinent to the PC, such as CPU type, CPU speed, and internal/external frequencies, and memory size.

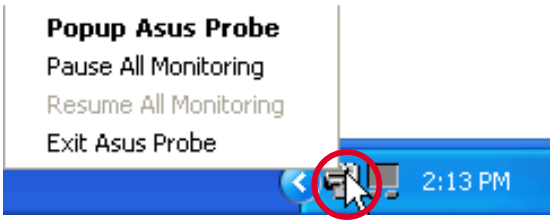


Memory

Shows the PC's memory load, memory usage, and paging file usage.

ASUS PC Probe Taskbar Icon

Right clicking the PC Probe icon will bring up a menu to open or exit ASUS PC Probe and pause or resume all system monitoring.



When the ASUS PC Probe senses a problem with your PC, portions of the ASUS PC Probe icon changes to red and audio alerts will be heard from the speaker.

NOTE: PC Probe will constantly use resources to check the system status while Windows is operating. It is suggested to exit PC Probe while using high demanding applications.

Power4 Gear

Topics Covered:

Benefits of Power4 Gear

Power4 Gear Interface

Power4 Gear Configuration

Screens will vary depending on your operating system but the contents should be the same.

Benefits of Power4 Gear

Power4 Gear gives you control over power consumption items by allowing you to instantly “shift” from one power consumption scheme to another. The four preferences or “gears” are shown below. You can change or “shift” gears by using the Power4 Gear button above the keyboard or by using the task bar icon. Power4 Gear can also be automatically activated when AC power is removed.

Power4 Gear Interface

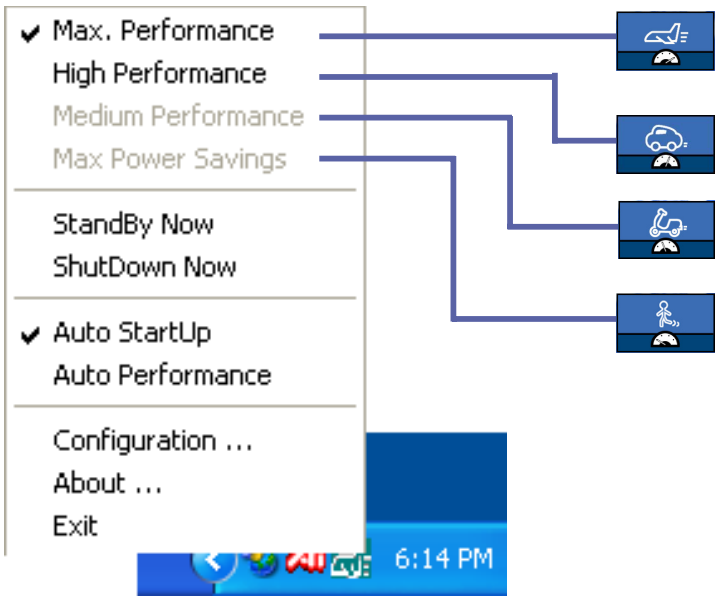
Understanding the Power4 Gear buttons

Press the Power4 Gear button above the taskbar to shift between the four gears as labeled below. The icon may vary depending on your Notebook PC model.

Maximum Performance	
High Performance	
Medium Performance	
Maximum Power Savings	

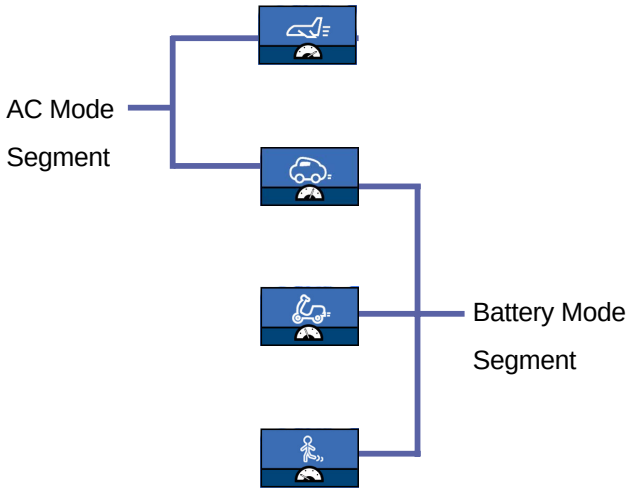
Using the task bar icon

Right-click the icon on the taskbar for quick access to Power4 Gear settings.



Power4 Gear Modes

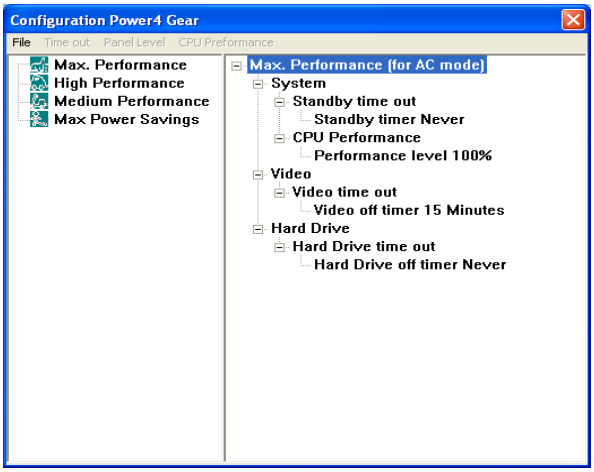
When you are using an AC adapter, the Power4 Gear button will switch betwen two modes as shown below. When you remove the AC adapter, the Power4 Gear button will switch between three modes as shown below. When you remove or apply the AC adapter, Power4 Gear will automatically shift you up or down into the proper mode segment.



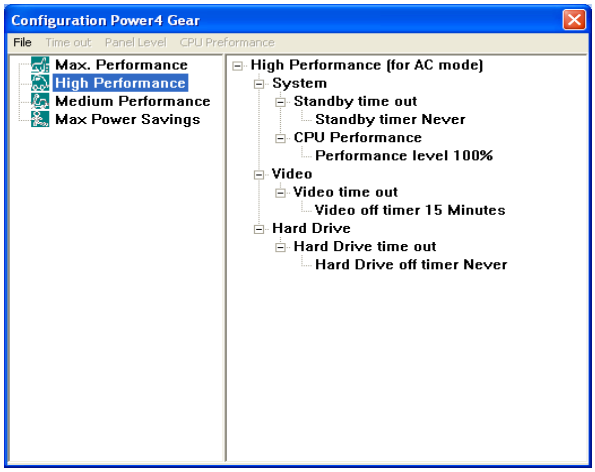
Power4 Gear Configuration

Double click an item to bring up a menu of selections and click on a value to change. To save, select “Save Configuration” form the “File” pull-down menu. If you did not save, you will be prompted to when you exit.

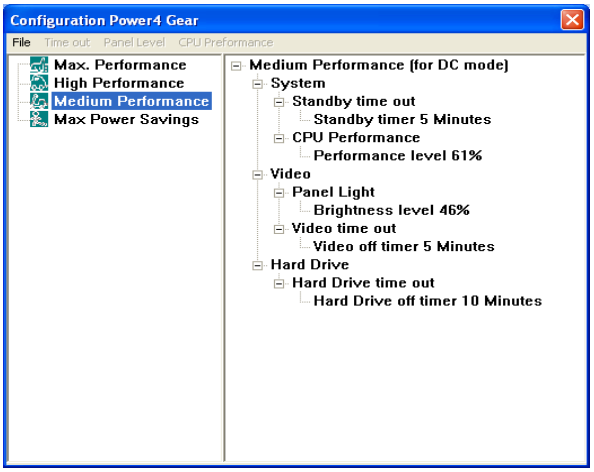
Maximum Performance



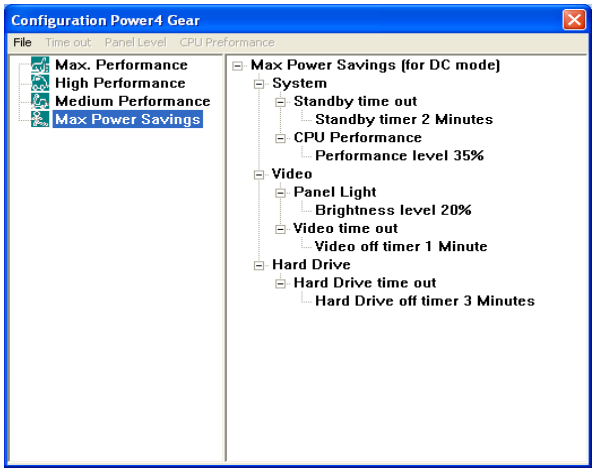
High Performance



Medium Performance



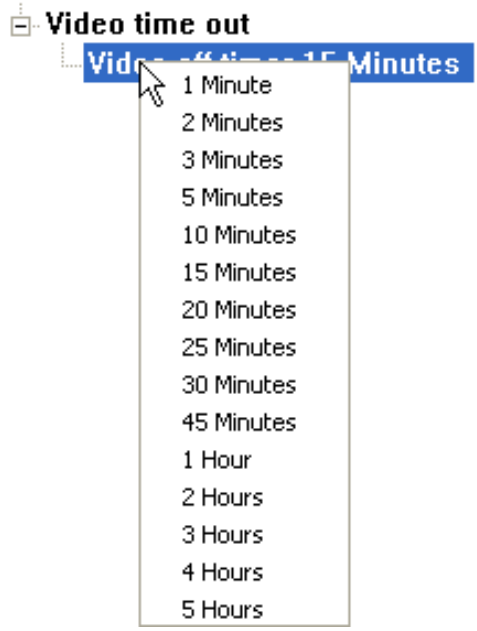
Maximum Power Savings



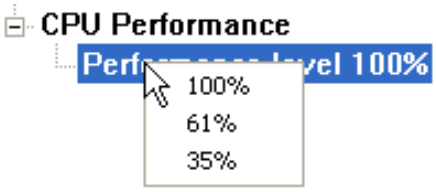
See next page for available selections for each “gear”.

System Standby Timer

Display Panel Off Timer



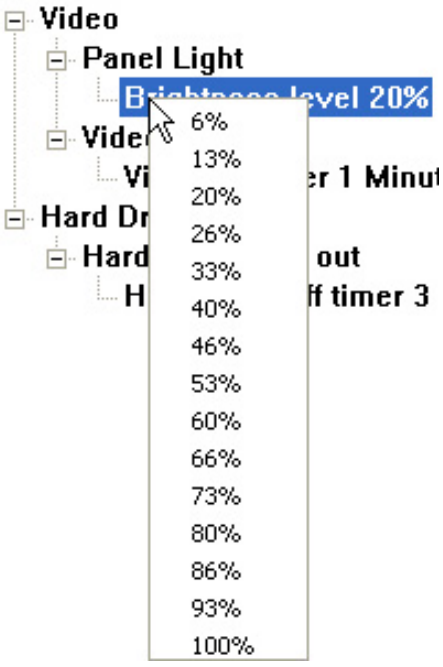
CPU Performance



Hard Drive Off Timer

Display Panel Brightness

(in Medium Performance or Maximum Savings)



Check Mail Utility

Topics Covered:

Check Mail Quick Setup

Check Mail Startup

Screens will vary depending on your operating system but the contents should be the same.

Check Mail Quick Setup

The support CD provided with this Notebook PC allows you to install Check Mail Utility to monitor and notify you of incoming email messages waiting in your Microsoft® Outlook or Outlook Express Inbox. The Check Mail utility was designed for Microsoft Outlook products and may or may not be compatible with other email applications. Launch Microsoft Outlook Express and setup your email account if not done so already. A blue light between the two email (✉) icons will blink when there are unread email in your Inbox. Unread email will be indicated in Outlook by a bold "Inbox (x)" (the x being the number of unread emails).

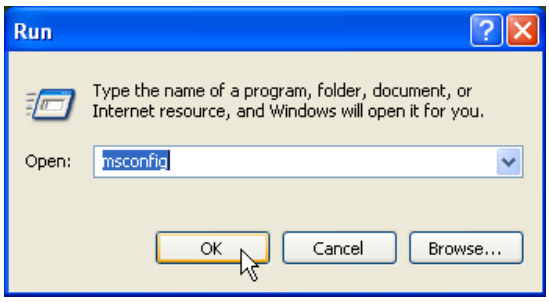
Check Mail Startup

After installation, "Check Mail" loads with Windows and runs in the background.

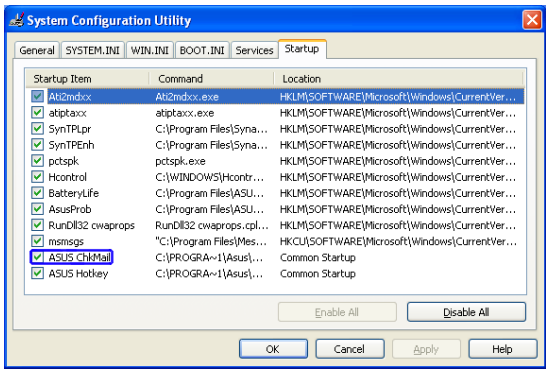
Using Windows Start Menu

To run **ChkMail**, access the **All Programs** shortcut through the **Start** button.

Using MS Configuration



Run the **msconfig** utility from the **Start** button.



On the Startup page, you will see "Startup" items. **ASUS ChkMail** is set to startup with Windows. You can deselect the items you do not want to startup with Windows.

LAN Settings

Topics Covered:

Joining a Domain or Workgroup

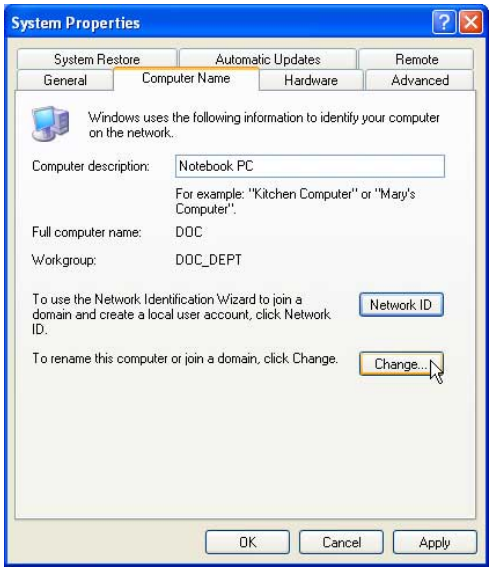
Screens will vary depending on your operating system but the contents should be the same.

Configuring the Network Device

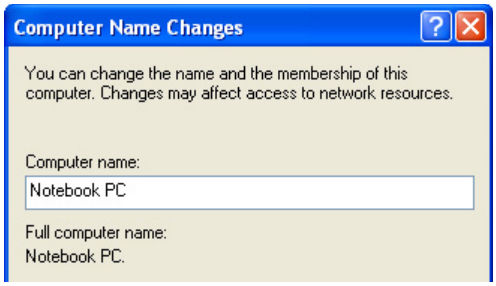
Joining a Domain or Workgroup (Windows XP)

(1) Click **Start** and **My Computer**.

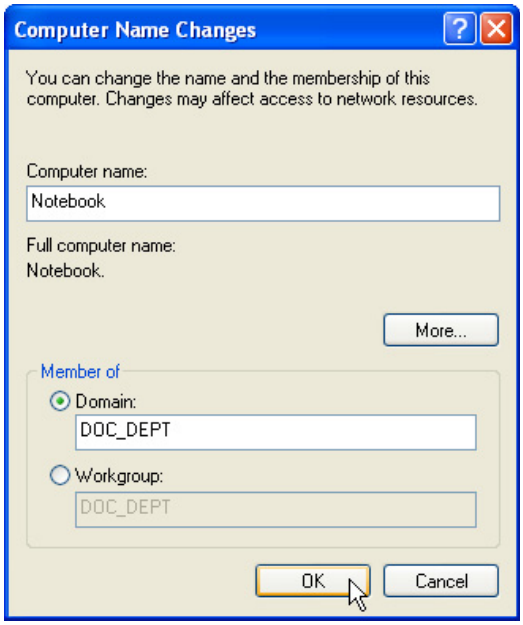
(2) Click **View system information**.



(3) Your computer name, workgroup or domain information is shown here. Click **Change** to view options.

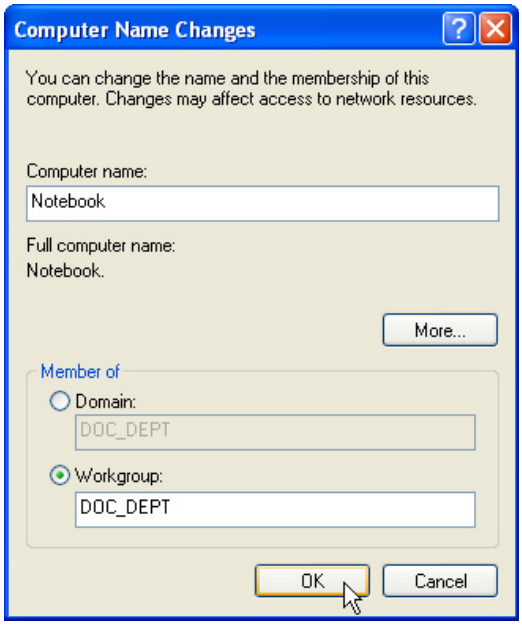


You cannot use spaces or symbols in the computer name. In the example here, a warning is given when trying to use “Notebook PC”. You can use the single word “Notebook” instead.



(4a) Domain:

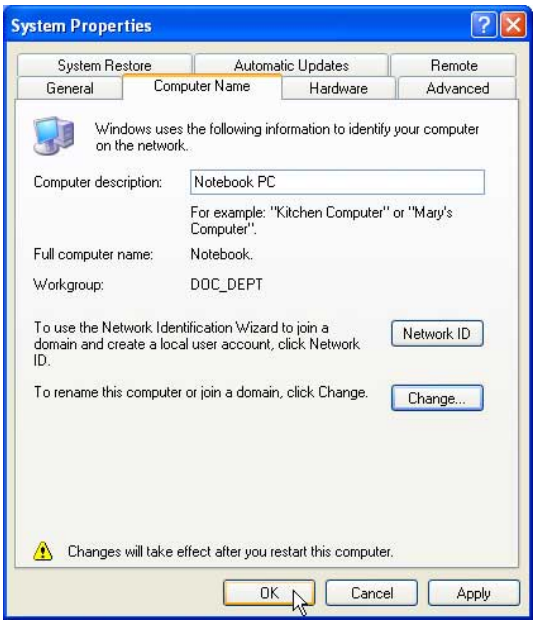
The primary server in the domain will perform routing functions and security verifications for your computer. Select **Domain** and enter an existing domain you wish to join. **NOTE:** After clicking "OK", you will be asked for the Domain Controller's Administrator password to join the domain in Windows XP.



(4b) Workgroup:

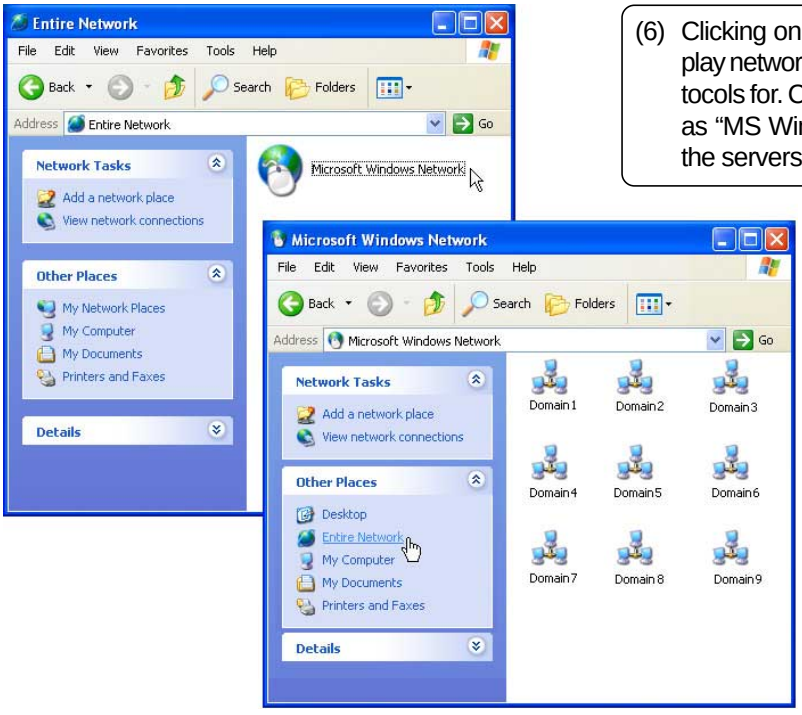
If your network does not have a domain or you are not authorized to join a domain, select Workgroup and type in an existing name or create your own (by typing an unused workgroup name)

Administrator Name or Password not accepted: You cannot login with the Administrator name and use one password, then use the Administrator name with another password to add to a domain. You must login using another name. See Windows documentation to "Add New User" from User Accounts in the Control Panel.



(5) After you restart your computer, you should see some contents through Entire Network.

Viewing Your Network



(6) Clicking on “My Network Places” will display networks which you have installed protocols for. Clicking a network protocol such as “MS Windows Network” will display all the servers available under that protocol.

Configuring the BIOS

Topics Covered:

BIOS Setup Program
Main Menu
IDE Channels
Advanced Menu
I/O Device Configuration
Security Menu
Power Menu
Boot Menu
Exit Menu

Screens will vary depending on your Notebook PC model but descriptions should be the same.

BIOS Setup Program

This Notebook PC supports a programmable EEPROM that stores the BIOS software and can be updated using the provided flash memory writer utility. This Section will guide you through the BIOS setup program by providing clear explanations for all the options. A default configuration has already been set. If you are either installing new devices or expanding main memory, you will need to enter the BIOS Setup to reconfigure your Notebook PC.

A battery backed-up CMOS RAM is used to record some basic system hardware information: clock, date, time, the error handling, and etc., even when the power is off. When the Notebook PC is turned back on, the system is configured with the values stored in the CMOS RAM.

The settings made in the BIOS Setup program intimately affect how the Notebook PC performs. It is important, therefore, to first understand all the Setup options, and second, to make settings appropriate for the way you use the Notebook PC.

The BIOS (Basic Input and Output System) Setup is a menu driven software utility that enables you to make changes to the system configuration and tailor your Notebook PC to reflect installed hardware, alter performance, and setup power saving functions. BIOS setup is used if you are setting up the Notebook PC for the first time, reconfiguring your system, or prompted to "**Run Setup**" during bootup. This section describes how to configure your system using this utility.

Even if you are not prompted to use the Setup program, at some time in the future you may want to change the configuration of your Notebook PC. For example, you may want to enable the Security Password Feature or make changes to the power management settings. It will then be necessary to reconfigure your system using the BIOS setup program so that the computer can recognize these changes and record them in the CMOS RAM of the EEPROM.

The Setup program has been designed to make it as easy to use as possible. It is a menu-driven program, which means you can scroll through the various sub-menus and make your selections among the predetermined choices.

When you start up the computer, press [F2] to call up the Setup utility.

NOTE: Because the BIOS software is constantly being updated, the following BIOS screens and descriptions are for reference purposes only and may not exactly reflect your BIOS screens.

Updating your BIOS

This Notebook PC supports an easy-to-use BIOS update software called "WINFLASH" which is installed through the provided support CD. If you need help installing or using "WINFLASH", refer to the "**Driver & Utility Manual**".

BIOS Menu Bar

The top of the screen has a menu bar with the following selections:

MAIN	Use this menu to make changes to the basic system configuration.
ADVANCED	Use this menu to enable and make changes to the advanced features
SECURITY	Use this menu to set a password to control bootup and control access to the BIOS setup menu.
POWER	Use this menu to configure and enable Power Management features.
BOOT	Use this menu to configure the default system device used to locate and load the Operating System.
EXIT	Use this menu to exit the current menu or specify how to exit the Setup program.

To access the menu bar items, press the right or left arrow key on the keyboard until the desired item is highlighted.

BIOS Legend Bar

At the bottom of the Setup screen you will notice a legend bar. The keys in the legend bar allow you to navigate through the various setup menus. The following table lists the keys found in the legend bar and those that are not with their corresponding alternates and functions.

Navigation Key(s)	Function Description
[F1] or [Alt H]	Displays the General Help screen from anywhere in the BIOS Setup
[Esc]	Jumps to the Exit menu or returns to the main menu from a sub-menu
← or → (keypad arrow)	Selects the menu item to the left or right
↑ or ↓ (keypad arrows)	Moves the highlight up or down between fields
– (minus)	Scrolls backward through the values for the highlighted field
+ (plus) or space	Scrolls forward through the values for the highlighted field
[Enter]	Brings up a selection menu for the highlighted field
[Home] or [PgUp]	Moves the cursor to the first field
[End] or [PgDn]	Moves the cursor to the last field
[F9]	Resets the current screen to its Setup Defaults
[F10]	Saves changes and exits Setup

General Help

In addition to the Item Specific Help window, the BIOS setup program also provides a General Help screen. This screen can be called up from any menu by simply pressing [F1] or the [Alt] + [H] combination. The General Help screen lists the legend keys with their corresponding alternates and functions.

Scroll Bar

When a scroll bar appears to the right of a help window, it indicates that there is more information to be displayed that will not fit in the window. Use [PgUp] and [PgDn] or the up and down arrow keys to scroll through the entire help document. Press [Home] to display the first page, press [End] to go to the last page. To exit the help window, press [Enter] or [Esc].

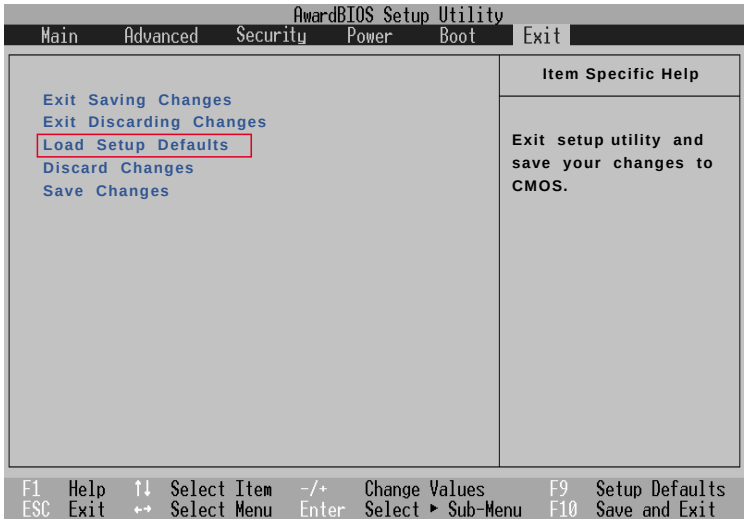
Sub-Menu

Note that a right pointer symbol (as shown in the left view) appears to the left of certain fields. This pointer indicates that a sub-menu can be launched from this field. A sub-menu contains additional options for a field parameter. To call up a sub-menu, simply move the highlight to the field and press [Enter]. The sub-menu will then immediately appear. Use the legend keys to enter values and move from field to field within a sub-menu just as you would within a menu. Use the [Esc] key to return to the main menu.

Take some time to familiarize yourself with each of the legend keys and their corresponding functions. Practice navigating through the various menus and sub-menus. While moving around through the Setup program, note that explanations appear in the Item Specific Help window located to the right of each menu. This window displays the help text for the currently highlighted field.

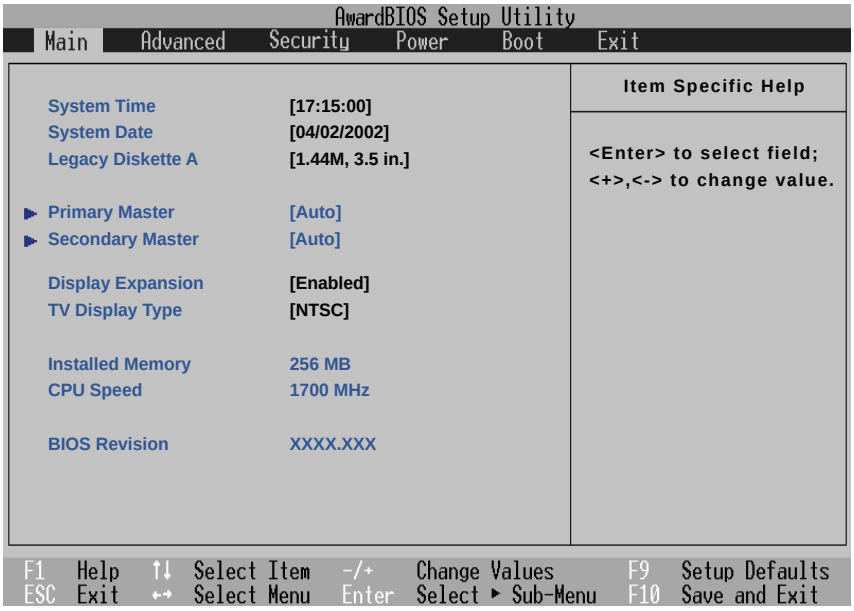
Resetting Your BIOS

If you ever hear “resetting your BIOS”, it entails pressing [**F2**] on bootup to enter BIOS setup and then selecting **Load Setup Defaults** on the “Exit” menu.



Main Menu

When the Setup program is accessed, the main menu screen appears as shown:



NOTE: In the following BIOS item descriptions, the item headings in square brackets represent the default settings for those fields.

System Time

Sets your system to the time that you specify (usually the current time). The format is hour, minute, second. Insert the appropriate information. Use the [Tab] or [Shift Tab] keys to move between the hour, minute, and second fields.

System Date

Sets your system to the date that you specify (usually the current date). The format is month, day, year. Type in the appropriate information. Use the [Tab] or [Shift Tab] keys to move between the month, day, and year fields.

Legacy Diskette A [1.44M, 3.5 in.

Specifies the type of disk used as drive A. The configuration options are: [1.44M, 3.5 in.]

IDE Channels:

>Primary Master (described later)

>Secondary Master (described later)

Display Expansion [Enabled]

Display expansion will stretch a low resolution environment (like DOS) to fill the entire LCD display panel. The configuration options are: [Disabled] [Enabled]

TV Display Type [NTSC]

This sets the video synchronization mode for your video output device (television or video projector). The setting depends on the territory that your video output device is manufactured for. The configuration options are: [NTSC] [PAL]

Installed Memory [256 MB] (display field)

This field displays the amount of extended memory as detected by the system. Unfortunately, this will not tell you how much is onboard and how much is added to the SO-DIMM socket. You must visually inspect the SO-DIMM socket if you are considering expanding your memory. You cannot make changes to this field. This is a display only field.

CPU Speed [1700 MHz] (display field)

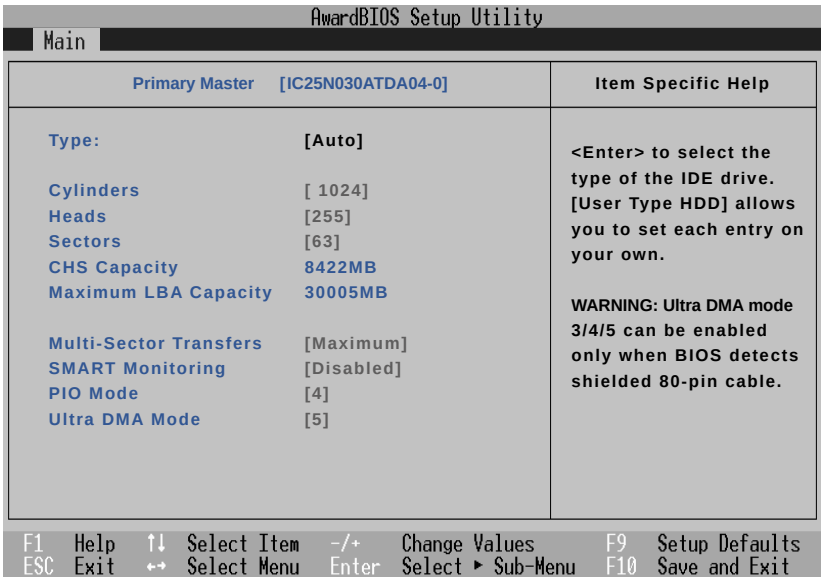
This field displays the speed of the CPU. This will vary depending on your Notebook PC model.

BIOS Revision (display field)

This field displays the current BIOS version.

Primary Master (sub-menu)

This field is used to configure the primary IDE drive installed in the system. To configure a hard disk drive, select this sub-menu from the **Main** menu and press the Enter key to enter this sub-menu.



NOTE: Before attempting to configure a hard disk drive, make sure you have the configuration information supplied by the manufacturer of the drive. Incorrect settings may cause your system to not recognize the installed hard disk. To allow the BIOS to detect the drive type automatically, select [AUTO].

Type: [Auto]

Select **Auto** to automatically detect an IDE type drive. This option only works with standard built-in IDE drives. If automatic detection is successful, the correct values will be filled in for the remaining fields on this sub-menu.

To configure a drive manually, select **User Type HDD**. Manually enter the number of cylinders, heads and sectors per track for your drive. Refer to your drive documentation or look on the drive for this information. If no drive is installed or if you are removing a drive and not replacing it, select **None**. Set the type to **CD-ROM** to support a CD-ROM or DVD-ROM drive.

When “Type” set to [User Type HDD]:

Translation Method

Translation method allows you to select the sector addressing method.

[Match Partition Table] is recommended if there is already an OS on the hard drive you are installing to this Notebook PC.

[Manual] allows you to specify cylinders, heads, and sectors.

[LBA] When Logical Block Addressing is enabled, 28-bit addressing of the hard drive is used without regard for cylinders, heads, or sectors. Note that Logical Block Access may decrease the access speed of the hard disk. However, LBA Mode is necessary for drives with greater than 504MB in storage capacity. The configuration options are: [LBA] [LARGE] [Normal] [Match Partition Table] [Manual]

Cylinders [ ]

This field configures the number of cylinders. Refer to your drive documentation to determine the correct value to enter into this field. **NOTE:** To make changes to this field, the **Type** field must be set to **User Type HDD** and “Translation Method” must be set to **Manual**.

Heads [ ]

This field configures the number of read/write heads. Refer to your drive documentation to determine the correct value to enter into this field. **NOTE:** To make changes to this field, the **Type** field must be set to **User Type HDD** and “Translation Method” must be set to **Manual**.

Sectors [ ]

This field configures the number of sectors per track. Refer to your drive documentation to determine the correct value to enter into this field. **NOTE:** To make changes to this field, the **Type** field must be set to **User Type HDD** and “Translation Method” must be set to **Manual**.

CHS Capacity [ ]

This field shows the drive’s CHS capacity calculated automatically by the BIOS from the drive information you entered.

Maximum LBA Capacity [ ]

This field shows the drive’s maximum capacity calculated automatically by the BIOS from the drive information you entered.

Multi-Sector Transfers [Maximum]

This option automatically sets the number of sectors per block to the highest number supported by the drive. This field can also be configured manually. Note that when this field is automatically configured, the set value may not always be the fastest value for the drive. Refer to the documentation that came with your hard drive to determine the optimal value and set it manually. **NOTE:** To make changes to this field, the **Type** field must be set to **User Type HDD**. The configuration options are: [Disabled] [2 Sectors] [4 Sectors] [8 Sectors] [16 Sectors] [32 Sectors] [Maximum]

SMART Monitoring [Disabled]

Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) is an interface between a computer's BIOS and hard disk. It is a feature of the Enhanced Integrated Drive Electronics (EIDE) technology that controls access to the hard drive. If S.M.A.R.T is enabled, the BIOS can receive analytical information from the hard drive and determine whether to send the user a warning message about possible future failure of the hard drive. Ideally, this should allow you to take proactive actions to prevent impending disk crashes.

PIO Mode [ ]

When enabled, this option speeds up communication between the system and the IDE controller by using enhanced I/O transfer modes (PIO Modes). **NOTE:** To make changes to this field, the **Type** field must be set to **User Type HDD**. The configuration options are: [0] [1] [2] [3] [4]

Ultra DMA Mode [ ]

This field auto detects Ultra DMA capability (for improved transfer speeds and data integrity) for compatible IDE (Integrated Disk Electronics) devices. Set to Disable to suppress Ultra DMA capability.

NOTE: To make changes to this field, the **Type** field must be set to **User Type HDD**. The configuration options are: [0] [1] [2] [3] [4] [5] [Disabled]. The following is for your reference:

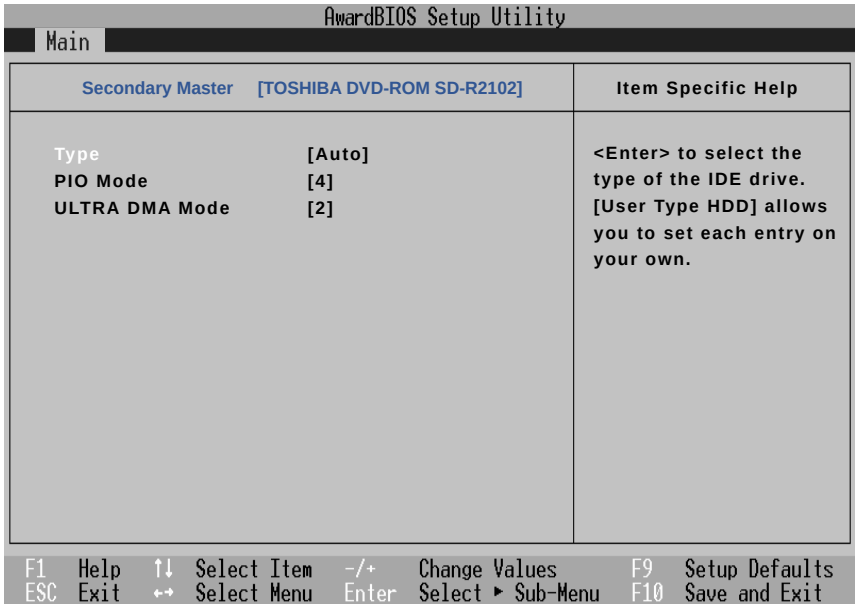
Mode 0 = 16.7MB/s	Mode 1 = 25.0MB/s
Mode 2 = 33.3MB/s (ATA/33)	Mode 3 = 44.4MB/s
Mode 4 = 66.7MB/s (ATA/66)	Mode 5 = 100MB/s (ATA/100)

NOTE: After using the legend keys to make your selections on this sub-menu, press the [Esc] key to exit back to the Main menu. When the Main menu appears, you will notice that the drive size appears in the field for the hard disk drive that you just configured.

Secondary Master (sub-menus)

This field is used to configure the secondary IDE drive installed in the system. To configure a hard disk drive, select this sub-menu from the **Main** menu and press the Enter key to enter this sub-menu.

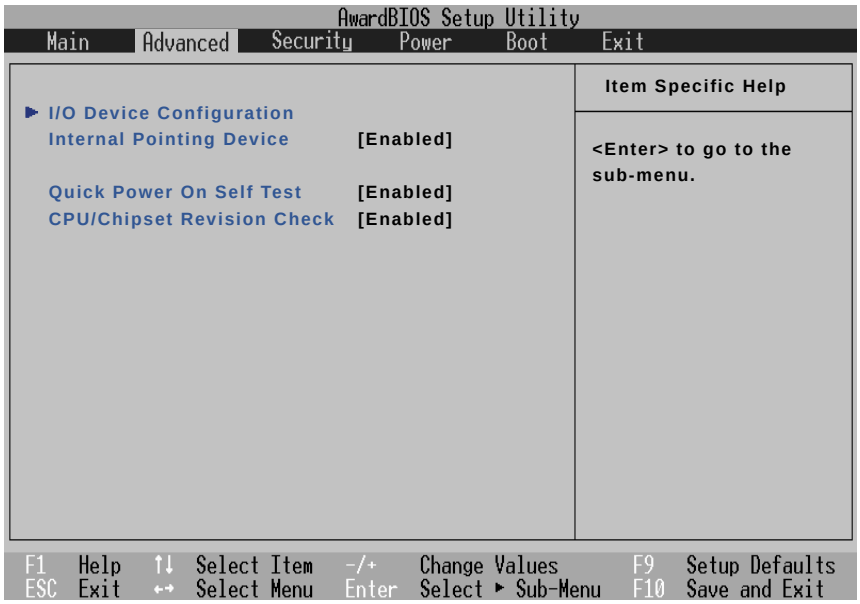
The fields and options on this sub-menu are the same as the previous menu described earlier. Leave on the default setting of Auto.



NOTE: The Secondary drive displayed here is an example only. The actual display will be dependent on the drive you have installed in your Notebook PC. After using the legend keys to make your selections in this sub-menu, press the [Esc] key to return to the Main menu.

Advanced Menu

Selecting Advanced from the main menu bar display the Advanced menu as shown below.



>I/O Device Configuration (described on next page)

Pressing [Enter] when this field is highlighted calls up a sub-menu for configuring the Notebook PC's serial and parallel ports.

Internal Pointing Device [Enabled]

This allows you to turn ON or OFF the Notebook PC's built-in touchpad. You may disable the internal touchpad if you use an external mouse and don't want to accidentally activate the cursor while typing. Some external pointing devices may have extra functions that may not function without disabling the Notebook PC's touchpad. The configuration options are: [Enabled] [Disabled]

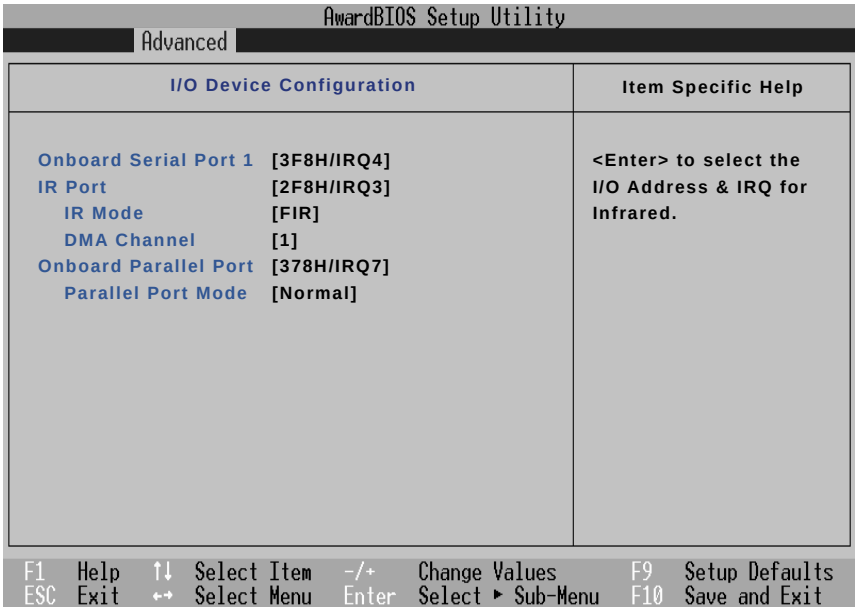
Quick Power On Self Test [Enabled]

This field speeds up the Power-On-Self Test (POST) routine by skipping certain redundant tests. Configuration options are: [Disabled] [Enabled]

CPU/Chipset Revision Check [Enabled]

When enabled, BIOS will check the revisions of the CPU, North Bridge (NB), and South Bridge (SB) to make sure that they are mass-production versions and not beta versions. If beta versions are detected, the following will be sent to Port 80:90h (CPU is incorrect), 91h (NB is incorrect), 92h (SB is incorrect). Configuration options are: [Disabled] [Enabled]

I/O Device Configuration (sub-menu)



NOTE: The presence of sub-items in this menu is dependent on certain relevant settings.

WARNING! Changing the default address and IRQ settings for Serial Port or Parallel Port can cause conflicts with other system devices or installed peripherals.

Onboard Serial Port 1 [3F8H/IRQ4]

This field allows you to configure the Notebook PC's serial COM1 port. The configuration options are: [3F8H/IRQ4] [2F8H/IRQ3] [3E8H/IRQ4] [2E8H/IRQ3] [Disabled]

IR Port [2F8H/IRQ3]

This field allows you to configure the Notebook PC's IR port. The configuration options are: [3F8H/IRQ4] [2F8H/IRQ3] [3E8H/IRQ4] [2E8H/IRQ10] [Disabled]

IR Mode [FIR]

The **Mode** field allows you to select either Standard Infrared (SIR) or Fast Infrared (FIR) communication mode. The configuration options are: [SIR] [FIR]

DMA Channel [1] (only when above is set to [FIR])

The **DMA** field allows you to configure the DMA Channel for the selected mode. The configuration options are: [1] [3]

Onboard Parallel Port: [378H/IRQ7]

This field allows you to configure the Notebook PC parallel port. The configuration options are: [Disabled] [3BCH/IRQ7] [378H/IRQ7] [278H/IRQ5]

Parallel Port Mode: [Normal]

This field allows you to configure the Notebook PC parallel port transmission mode. The configuration options are: [Normal] [EPP] [ECP] [ECP+EPP]

EPP Mode: When the **EPP** mode is selected, the standard and bidirectional modes are also available. The EPP operates on a two phase cycle. First, the host selects the register within a device for subsequent operations. Second, the host performs a series of read and/or write byte operations to the selected register. There are four operations supported by EPP: Address Write, Data Write, Address Read, and Data Read. All operations are performed asynchronously.

ECP Mode: The port is both software and hardware compatible with existing parallel ports so that it may be used as a standard printer mode if ECP is not required. ECP mode provides an automatic high burst-bandwidth channel that supports DMA for ECP in both the forward (host to peripheral) and reverse (peripheral to host) direction.

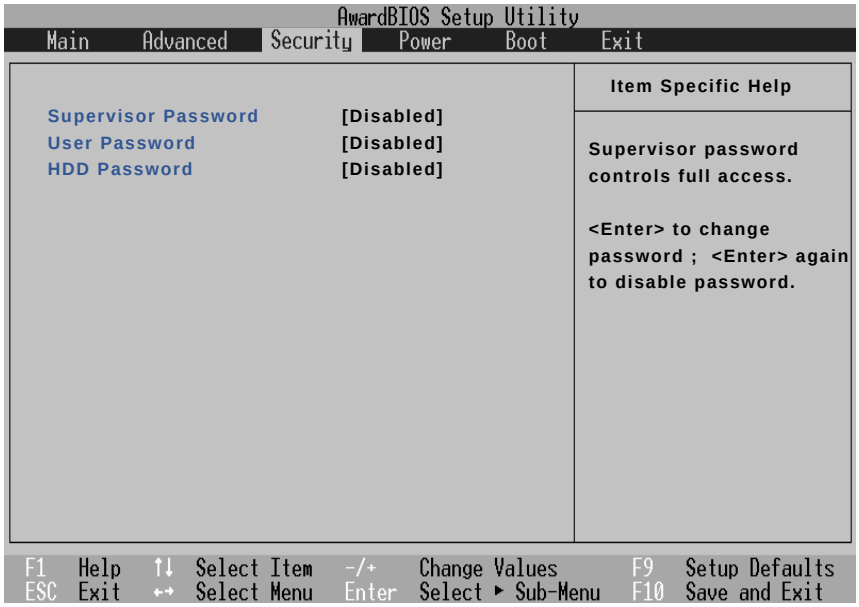
ECP DMA Select: [3] (when above is set to [ECP] or [ECP+EPP])

The **DMA** field allows you to configure the DMA Channel for the selected mode. The configuration options are: [1] [3]

NOTE: After using the legend keys to make your selections for the I/O Device Configuration sub-menu, press the [Esc] key to exit back to the Advanced menu.

Security Menu

The Notebook PC's advanced system of security allows you to set a password to prevent unauthorized access to system resources, data, and the BIOS Setup Program. This Section covers each parameter of the Security Setup. Selecting Security from the menu bar displays the following menu:



The BIOS Setup program allows you to specify passwords in the Security menu. The passwords control access to the BIOS and certain Security menu options during system startup. The passwords are not case sensitive. In other words, it makes no difference whether you enter a password using upper or lowercase letters.

See next page for detailed password information.

Supervisor Password [Enter]

This protects the BIOS settings. When “Enabled”, you will be prompted for a password after you press [F2] to enter BIOS setup.

To Enable: Press [Enter], type a password and press [Enter], type the same password again and press [Enter] to confirm. (You can type up to eight alphanumeric characters. Symbols and other keys are ignored.)

To Disable: Press [Enter] without entering a password.

User Password [Disabled]

When “Enabled”, you will be prompted for a password during bootup or entering BIOS setup. (To enter BIOS setup, [F2] must be pressed before the system bootup password prompt.) If the “Supervisor Password” is enabled, entering a “User Password” will only allow you to gain access to enabling or disabling the User Password, not the BIOS setup.

To Enable: Press [Enter], type a password and press [Enter], type the same password again and press [Enter] to confirm. (You can type up to eight alphanumeric characters. Symbols and other keys are ignored.)

To Disable: Press [Enter] without entering a password.

NOTE: If “User Password” and “Hard Disk Password” are both “Enabled”, the “Hard Disk Password” will be required first.

HDD Password [Enter]

A HDD (hard disk drive) password places a protection on the hard disk drive so that a password is necessary in order to access the hard disk drive. When “Enabled”, the hard disk drive will be protected as follows:

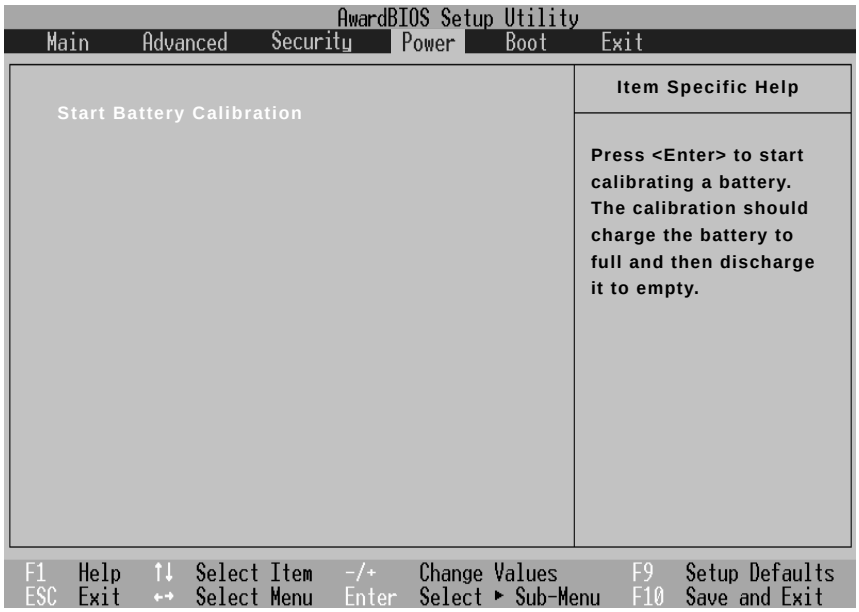
- The protected hard disk drive will prompt for a password when accessed on the Notebook PC.
- The protected hard disk drive cannot be used as a master or slave drive on another computer.
- The protected hard disk drive cannot be formatted.

To Enable: Press [Enter], type a password and press [Enter], type the same password again and press [Enter] to confirm. (You can type up to eight alphanumeric characters. Symbols and other keys are ignored.)

To Disable: Press [Enter] without entering a password. You will then be asked for the original password to confirm your identity.

NOTE: If “User Password” and “Hard Disk Password” are both “Enabled”, the “Hard Disk Password” will be required first.

Power Menu

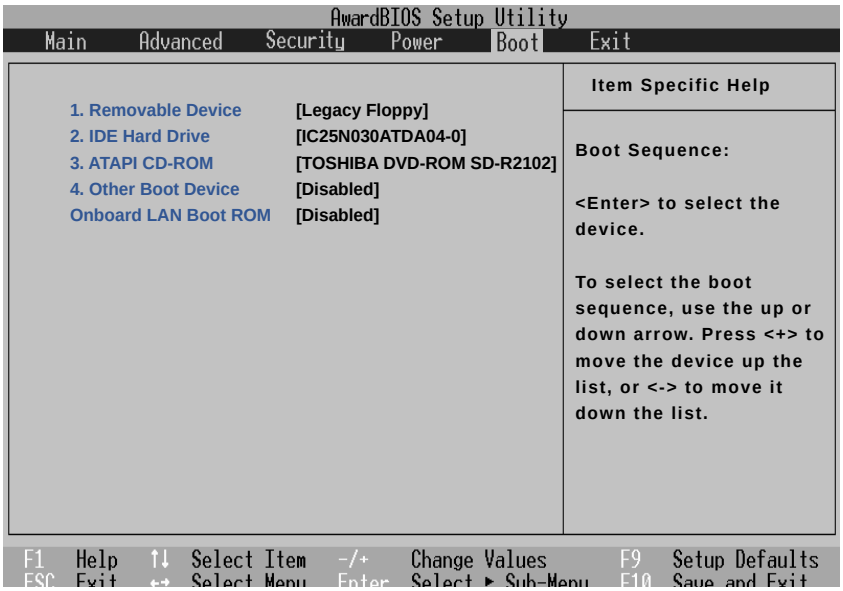


Start Battery Calibration

This function will start a software program to remove memory effects in the battery and recalibrate the battery gauge. Even though this Notebook PC uses a Lithium-Ion battery which is not prone to memory effects, memory effects will still occur at the end of the battery's life cycle. Remember that all rechargeable batteries only have a definite number of charge and discharge cycles depending on environment and quality of the battery pack. **Follow the instructions shown on the screen.**

Boot Menu

The Boot menu allows the user to specify the order in which the Notebook PC is to check for a device to boot the system. To make changes, select **Boot** from the menu bar and the following screen appears:



Boot Sequence

1. **Removable Device**
2. **IDE Hard Drive**
3. **ATAPI CD-ROM**
4. **Other Boot Device**

Onboard LAN Boot ROM - Select Network drive bootup capability as [Disabled] or [Enabled].

The Boot menu allows you to select among the three possible boot devices listed using the up and down arrow keys . By using the [+] or [Shift =] keys, you can promote devices and by using the [-] key, you can demote devices. Press [Enter] to select the specific device or **Disabled** to never boot from that device.

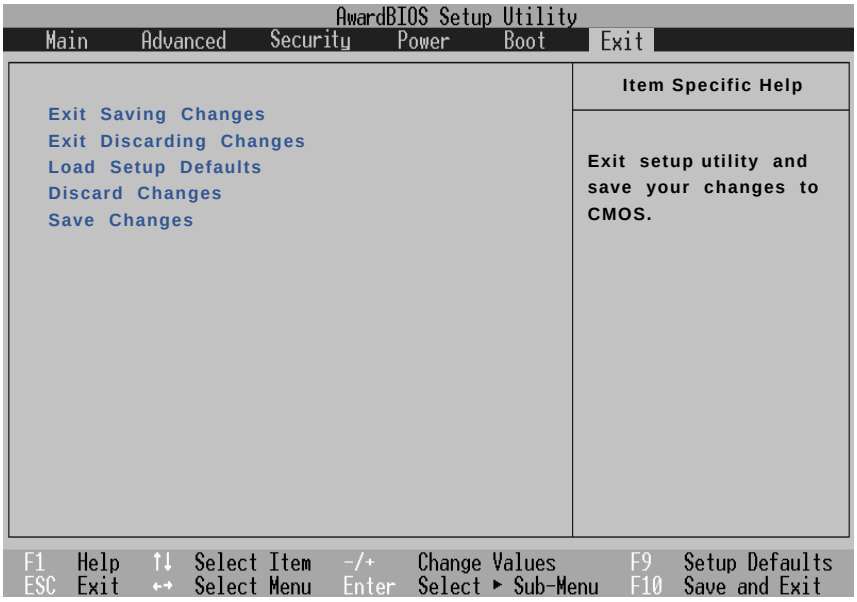
Promotion or demotion of devices alters the priority which the system uses to search for a boot device on system power up. The following are explanations of the devices listed in the boot sequence:

Removable Device refer to the floppy disk used in the internal or USB floppy disk drive.
IDE Hard Drive refers to the internal built-in hard disk drive.
ATAPI CD-ROM refers to either the built-in CD-ROM drive or DVD-ROM drive.
Other Boot Device currently refers to booting from a network drive.

NOTE: To boot from LAN, set this item to the top and Enable “Onboard LAN Boot ROM”.

Exit Menu

Once you have made all of your selections from the various menus in the Setup program, you should save your changes and exit Setup. Select **Exit** from the menu bar to display the following menu:



NOTE: Pressing the [Esc] key does not exit this menu. You must select one of the options from this menu or a menu bar item to exit this menu.

Exit Saving Changes

Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved to the CMOS RAM. The CMOS RAM is sustained by an onboard backup battery and stays on even when the Notebook PC is turned off. Once this option is selected, a confirmation is asked. Select **Yes** to save changes and exit.

Exit Discarding Changes

This option should only be used if you do not want to save the changes you have made to the Setup program. If you have made changes to the fields other than system date, system time, and password, the system will ask for confirmation before exiting.

Load Setup Defaults

This option allows you to load the default values for each of the parameters on the Setup menus. When this option is selected or if [F9] is pressed, a confirmation is requested. Select **Yes** to load default values programmed into the BIOS file (the default values may change from one BIOS version to another). You can now select **Exit Saving Changes** or make other changes before saving the values to the EEPROM.

Note: You must "Load Setup Defaults" after updating your BIOS.

Discard Changes

This option allows you to discard the selections you made and restore the values you previously saved. After selecting this option, all selections are updated and a confirmation is requested. Select **Yes** to discard any changes and load the previously saved values.

Save Changes

This option saves your selections without exiting the Setup program. You can then return to other menus and make changes. After selecting this option, all selections are saved and a confirmation is requested. Select **Yes** to save any changes to the EEPROM.