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Notebook PC

Drivers and Utilities User's Manual

Product Name:Notebook PC Support CDManual Revision:1 E1542Release Date:April 2004

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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).

 \bigcirc

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.

New Windows Installation

If you install a new operating system on your Notebook PC, there will be many hardware devices without drivers. Use the provided support CD to correct this problem.

Drivers for Windows

Next page gives descriptions of each support CD 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.

Required Drivers

Some drivers may already be provided in Windows. If you have any problems with these drivers, visit the Microsoft Windows Update site. A link is provided in Microsoft Windows Explorer under "Tools."

VGA (Display) "ATI Mobility Radeon 9600 Series" Driver

Installing the VGA driver first will make viewing other setup screens much easier. 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 display features. Once the display driver is installed, you can change your display's resolution and color through Display Properties.

This device is shown under Windows Device Manager "Display adapters."

ASUS Wireless LAN "Intel(R) PRO/Wireless LAN 2200BG Network Connection" Driver or

"Intel(R) PRO/Wireless LAN 2100 3B Mini PCI Adapter" Driver (depends on model)

Required on models with internal wireless LAN. Installs the required network driver for the Notebook PC's optional internal wireless LAN controller. If you purchased the optional internal wireless LAN, you need to install this driver. If you did not purchase the optional internal wireless LAN, you cannot install this driver.

This device is shown under Windows Device Manager "Network Adapters."

ATKACPI "ATK0100 ACPI UTILITY" Utility

This utility is required for special utilities provided in the support CD. This installs drivers for the Notebook PC's Advanced Configuration and Power Interface (ACPI) for features utilizing power management functions.

This device is shown under Windows Device Manager "System devices."

Audio "C-Media AC97 Audio Device" Driver

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.

This device is shown under Windows Device Manager "Sound, video and game controllers."

CPU HotFix

This installs Windows support files for advanced features in new Intel processors.

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

This installs drivers for the Notebook PC's specific chipset.

This device is shown under Windows "System devices."

LAN "Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Adapter, Copper RJ-45" Driver

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.

This device is shown under Windows Device Manager "Network Adapters."

Modem "AC97 SoftV92 Data Fax SmartCP" 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.

Recommended Utilities

Check Mail 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.)

Hotkey 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.

LiveUpdate Utility

This utility helps you easily upgrade your Notebook PC's BIOS through an Internet connection.

PC-cillin 2002 Utility

Installs **Trend's PC-cillin 2002**, 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.

Power4 Gear+ 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.

Probe2 Utility

Installs **Probe2** 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.

TouchPad "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.

WinFlash 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.

Drivers Provided in Windows XP

If you have any problems with these drivers, visit the Microsoft Windows Update site. A link is provided in Microsoft Windows Explorer under "Tools."

1394 "R5C593" (Already supported in Windows XP)

This driver is provided by Microsoft in its Windows XP operating system.

This device is shown under Windows Device Manager "IEEE 1394 Bus host controllers".

Fast IR Driver "IrDA Fast Infrared Port" (Already supported in Windows XP)

This driver is provided by Microsoft in its Windows XP operating system.

This device is shown under Windows Device Manager "Infrared devices".

PCMCIA "R5C593" (Already supported in Windows XP)

This driver is provided by Microsoft in its Windows XP operating system.

This device is shown under Windows Device Manager "PCMCIA adapters".

RICOH Media Card "R5C593" (Already supported in Windows XP)

This driver is provided by Microsoft in its Windows XP operating system.

USB 2.0 (Already supported in Windows XP SP1 & Windows 2000 SP4)

This driver is provided by Microsoft in its Windows operating system. The support CD also includes a version of this driver for Windows 98 SE or Windows ME. This driver is not required for Windows 2000 or Windows XP and installation will not be possible.

This device is shown under Windows Device Manager "Universal Serial Bus controllers".

SteepStep (Already supported in Windows XP)

This function is already supported in Windows XP. The support CD also includes a version of this utility for other Windows versions. Installation will not be possible under Windows XP.

Intel[®] SpeedStepTM is a technology that provides adjustable processor speeds for maximum performance when connected to an external power and battery optimized performance when going mobile. The processors can dynamically switch clock frequency and voltage, depending on whether the computer is running on batteries or is plugged into AC power. These changes in frequency happen in only 1/2000th of a second — so fast, they are invisible to users, even if they occur in the middle of performance-intensive applications.

Other Support CD items

[Read Me] Text File

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

[Browse this CD] Link

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

[Technical Support Form] Text File

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.

[AFLASH2] Folder

This utility allows you to upgrade your Notebook PC's BIOS in DOS mode. You enter DOS mode by booting to a DOS system on a floppy disk, CD, or USB drive instead of entering the Windows operating system. AFLASH2.EXE can be found in the Aflash folder of the support CD.



[Exit] Link

Closes the support CD autorun screen.



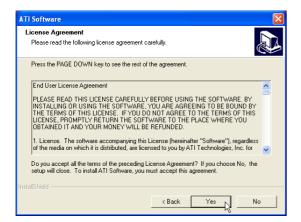
VGA Driver

(It is necessary to install the VGA driver first in order to see other setup screens in their proper sizes.)

Topics Covered: VGA Driver Setup Display Settings for Windows XP ATI Taskbar Icon

VGA Driver Setup

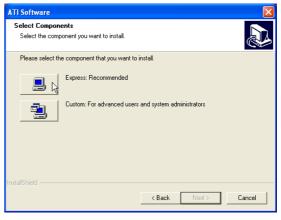
Running setup will give you the following wizard. See next page for VGA settings.



On the "License Agreement" screen, click **Yes** after reading the message.



Click **Continue Anyway** because this driver has been tested to work with Windows XP.



On the "Select Components" screen, click **Express...** to begin installation.

Setup Complete	
	Setup has finished copying files to your computer. Before you can use the program, you must restart Windows or your computer. Yes, I want to restart my computer now. No, I will restart my computer later.
	Finish 📐

On the "Setup Complete" screen, click **Finish**. Restarting now will help enlarge the screen area to view other setup items more comfortably.

? 🗙

Display Settings for Windows XP

Display Properties

Set screen resolution and color quality to the maximum for best results. If your Notebook PC does not support the maximum resolution, panning will occur to cover the extra area. In this case, you can lower the resolution. .

	1
Arrange Icons By Refresh	Display: 1. (Multiple Monitors) on ATI MOBILITY RADEON 9600 Series
Paste Paste Shortcut	Screen resolution More Less ↓ 1024 by 768 pixels ✓ ✓
New •	Extend my Windows desktop onto this monitor.
Properties	Tor advanced graphics controller
By right clicking your desktop and selecting Properties , you can view your display properties.	settings, click the Advanced button
	(Multiple Monitors) and ATI MOBILITY RADEON 9600 Series Prop ? Color Color Color Color Color Management Color Management Color Displays
 Schemes 	Scheme
Settings Settings	Hotkey: None Delete
🔹 Help 🛛 🥏 🧵	Monitor Panel TV
Troubleshooting	
7:25 PM	Not Connected 1024x768 60 Hz
Display Properties	OK Cancel Apply Help

Display Properties

Themes Desktop Screen Saver Appearance Settings

Drag the monitor icons to match the physical arrangement of your monitors.

ATi Display Properties

ATi display properties can be accessed through the advanced button or through the ATi icon on the taskbar.

Displays

This page allows you to enable or disable display output devices and save schemes with hotkeys.

Display Settings for Windows XP (Cont')

ultiple Mor	nitors) and A	TI MOBILITY RADI	EON 9600 Series I	Prop <table-cell></table-cell>
General A	dapter Monit		Color Management	🚮 Displa
O Desk	top F	Profiles for: Desktop		Save
C Fulls	Screen 3D) elete
	olors 🖲 Re	d C Green	C Blue	Reset
Gamma:	0.5	—J——	- 3.5 1.00 🛨	
Brightne	ss: -100	J	- 100 💽 🕂	
Contrast	. 0		- 200 100 -	
	×			Hotkeys
		OK Can	cel Apply	Help

Color

This page allows you to adjust and save profiles for colors, gamma, brightness, and contrast.

(Multiple Monitors) and ATI MOBILITY RADEON 9600 Series Prop ? 🔀
General Adapter Monitor Troubleshoot Color Management Imagement
Main Settings DIRECTED <-Performance Balanced Quality > Custom Settings
Custom Settings SMD0THMISION 2.1
Anti-Aliasing: Application Samples:
Maximum Resolution: 1600x1200 4× 2× 4× 6×
Anisotropic Filtering: Application Anisotropic Filtering: Application Anisotropic Filtering: Application Application Anisotropic Filtering: Application Application
<- Performance Quality ->
Texture Preference: High Quality
Mipmap Detail Level: High Quality
Wait for Vertical Sync: Application Preference
Compatibility Settings
OK Cancel Apply Help

lain Settings						
				C	pen	GL.
<- Performance	Balanced	Quality ->		Custom Se	ettings	
Custom Settings SMOOTHVISION 2.1 -						
Anti-Aliasing	 Application Preference 	Samples:	1			
Maximum Resolution:	1600x1200	24	2X	4> erformance		6X Iuslitu
Anisotropic Filtering	 Application Preference 	Samples:	٦.			
	Freierence		2X	4×	8X	16X
			<- Pe	rformance	Quali	ty->
Texture Preference:	High Q	uality	1	1	1	- 1
Mipmap Detail Level:	High Q	uality				— <u> </u>
Wait for Vertical Sync:	Defau	lt Off		— <u>j</u> —		_
		Compatit	oility Set	tings	Defa	aults

OpenGL

This page allows you to adjust quality and performance for applications using OpenGL.

Direct3D

This page allows you to adjust quality and performance for applications using Direct3D.

Display Settings for Windows XP (Cont')

(Multiple Monitors) and ATI MOBILITY RADEON 9600 Series Prop ? 🔀
General Adapter Monitor Troubleshoot Color Management 🕼 Displays
Version Information Packaging Version 7.952-031028m-011938E
Details
✓ Re-activate all warning messages
✓ Enable ATI taskbar icon application
✓ Show ATI icon on taskbar ✓ Disable quick resolution feature
OK Cancel Apply Help

Options

This page allows you to enable or disable ATi quick access desktop and taskbar menus.

(Multiple	Monitors) and ATI MOBILITY RADEON 9600 Series Prop ?	<
General	Adapter Monitor Troubleshoot Color Management Al Displays or Al OpenGL Al Direct3D Al Options Al Overlay]
Colo	lor 🚮 OpenGL 🚮 Direct3D 🚮 Options 🚮 Overlay	
	Overlay Adjustments	
	Values	
	Brightness 📃 🗴	
	Contrast	
	Saturation 100 %	
	Hue III °	
	Gamma	
	Theater Mode	
	OK Cancel Apply Help	

Overlay

This page allows you to adjust brightness, contrast, saturation, hue, and gamma for videos.

Display Settings for Windows XP (Cont')

БĿ,

🚛 7:26 PM

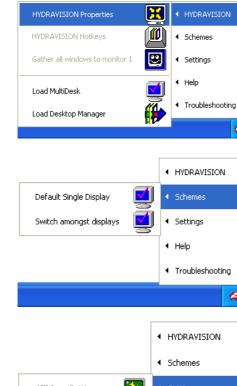
F 🍄

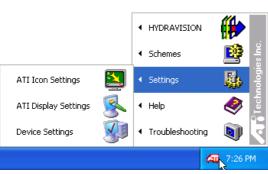
Γh.

AIL 7:26 PM

ATi Taskbar Icon

Bring up ATi quick-access menus by right clicking **a** on the task bar. You can quickly launch displayrelated property windows using the ATi taskbar. If you cannot see this icon, you may have to "Show hidden icons" by clicking on **(**.





Right-click the ATi icon for many quick access menus.

	No Prompt
~	16 BPP
	32 BPP
	800 × 600
~	1024 × 768
	1152 × 864
	1280 × 768
	1280 × 1024
	1600 × 1200
	1792 × 1344
	1800×1440
	1920×1080
	1920 × 1200
	1920 × 1440
	2048 × 1536
	7:25 PM

Left-click the ATi icon for quick display resolution changing.

((•)) ▲

ASUS Wireless LAN

(Required Driver)

Topics Covered: Wireless LAN Driver Setup ASUS WLAN Utility Setup ASUS WLAN Utility Quick Start

Wireless LAN Driver Setup

Running setup will give you the following wizard:



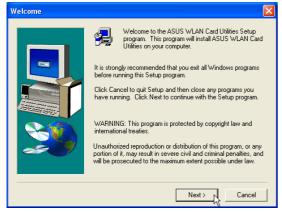
Click OK to install the modem driver.



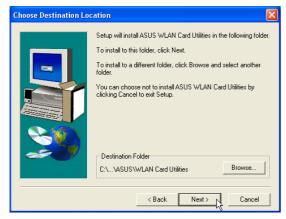
On the "Finish" screen, click OK.

ASUS WLAN Utility Setup

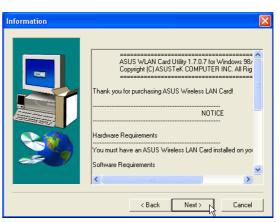
After installing driver, you need to install the wireless utility.



Click Next after reading the "Welcome" screen.



On the "Choose Destination Location" screen, click **Next** to continue or you may first change the destination folder.



Click **Next** after reading the "Information" screen.



On the "Select Program Folder" screen, click **Next** to continue or enter a different folder name.

ASUS WLAN Utility Setup (Cont')



Click Finish on the "Setup Complete" screen.

Windows XP supports 802.11b wireless networking with the Wireless Zero Configuration service. Select the following operations about how to configure the WLAN Card.
○ Only use <u>X</u> P wireless function

Select to use "...ASUS Utilities..." for added features while using the wireless LAN device.

ASUS WLAN Utility Quick Start

After installing the ASUS WLAN driver and utility, the utility will automatically start with Windows. If you need to start it manually, you can launch the utility using the desktop icon or through Windows **start**. You will need to make some wireless LAN settings before being able to use your wireless connection.



ASUS WLAN Control Center

े ≌)	2:1A HM	(Right-Click N	lenu)
_	× Exit Contro	l Center	
	? About Conl	trol Center	
	🏈 Preference	s	
	🧼 Help	•	
	🚏 AP Manage	r	
	🧟 Site Monito	r	
	Mobile Man	-	
	🙆 Activate Cr	onfiguration 🔹 🕨	1
	🐕 Wireless Se	ettings)
			1

Right-click the ASUS WLAN icon and select "Wireless Settings"



Set the Network Name (SSID) to the same name as the SSID set in your wireless access point.

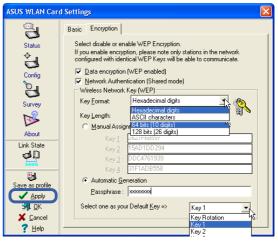
ASUS WLAN Utility Quick Start (Cont.)

ASUS WLAN Card	l Settings
Status	Site Survey
.	BSSID SSID CH RSSI Type
Config	00:E0:18:F4:45:43 default 6 -40 AP 00:E0:18:78:B6:37 default3 6 -41 AP
Survey About	Lu UUEU. 10.70, DD. 37 UPIQUIK3 D 441 AP
Link State	
Save as profile	Number of known wireless network(s): 2
∰L <u>O</u> K X <u>C</u> ancel ? <u>H</u> elp	<u>Search</u> Connect

Use "Site Survey" if you don't know the name of your access point(s).

ASUS WLAN Car	SUS WLAN Card Settings					
Status	Status Connection IP	Config 802.11b Network Adapter				
Config	Association State :	Connected - EA:90:81:E7:F	1:32			
9	SSID :	v_gw				
Survey	MAC address :	00:E0:18:F4:42:DD				
1	Current Channel :	11				
About	Current Data Rate :	11 Mbps				
Link State	Radio State:	Radio On	Disable Radio			
3	<u>R</u> escan	Scan again for available win connect the one which has				
Save as profile	Change SSID	To connect to one wireless network, your WLAN Card and wireless network must specify the same SSID.				
⊻¶L <u>D</u> K X⊆ancel	Search & Connect	Views the wireless networks of this computer.	that are within range			
7 <u>H</u> elp						

Check the "Status" page to see the "Association State". It should show "Connected xx:xx:xx:xx:xx:xx".



Encryption settings must also match those set in the access point. Talk with your network administrator if necessary. Click **Apply** to save your settings

ASUS WLAN Car	d Settings 🛛 🔀
Status	Status Connection IP Config Frame Sent/Received Transmitted: 0 Received: 1 Frame Error Frame Error T 1 1 1
Config Config Survey	Transmitted : 0 Received : 0 Connection Quality Signal Strength : Excellent (95%)
About Link State	Connection Quality
Save as profile	60 00
? <u>H</u> elp	1

You can also see the connection quality on the "Connection" page. Click **OK** to exit the utility.



(Required Utility)

Topics Covered: ATKACPI Setup

ATKACPI Setup

This utility requires that you manually install it from Device Manager. No software operation is required.



Double click Unknown device.



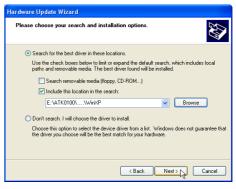
Select "Install from ... " and click Next.



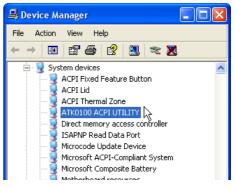
Click Finish when setup is complete.



Click Reinstall Driver.



Browse to your operating system folder in the "ATK0100" folder and click **Next**.



"ATK0100 ACPI UTILITY" should show under System devices.



Audio

(Required Driver)

Topics Covered: Audio Setup

Audio Setup

You will see a "Found New Hardware Wizard" if you device requires setup. If not your driver may already be installed by Windows. If your device is not working, you can manually install the driver as follows:

🚊 🥵 Other devices
🗄 🔋 PCMCIA adapters 🛛 🖄
🗄 🝠 Ports (COM & LPT)
主 🛲 Processors
🗄 🔍 Sound, video and game controllers
🧠 🧶 Audio Codecs
- 🧐 Legacy Audio Drivers
- 🧐 Legacy Video Capture Devices
- 🧐 Media Control Devices
🧶 Video Codecs

Normally, you will get a "Found New Hardware Wizard" as shown on the next step. If not, double click the Audio controller with a question mark.



Browse to the folder shown here and click **Next**.



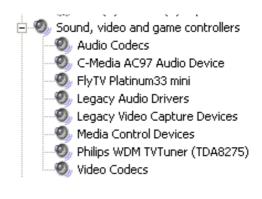
Click **Finish**. Restarting Windows will start the USB Controller.



Select "Install from ... " and click Next.



Click **Continue Anyway** because this driver has been tested to work with Windows XP.



The installed audio driver will appear under "Sound, video and game controllers".

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<u>۱</u> ۰.						•	
<u>۱۰</u>			1			•	
•						-	
<u>۱</u> ۰.							
<u>۱</u> ۰.							
•							

CPU Hotfix

(Required Driver)

Topics Covered: CPU Hotfix Setup 1 CPU Hotfix Setup 2

CPU Hotfix Setup

Running setup will give you the following wizard:





Click $\boldsymbol{\mathsf{OK}}$ to begin the installation wizard.



Select "I Agree" and click **Next** on the License Agreement.

Click **Next** on the Welcome screen to continue.

Windows XP q330512 Set	Windows XP q330512 Setup Wizard		
	Completing the Windows XP q330512 Setup Wizard		
	You have successfully completed the q330512 Setup Wizard.		
\mathbf{X}	To apply the changes, the wizard has to restart Windows, To restart Windows automatically, click Finish.		
	If you want to restart later, select the Do not restart now check box, and then click Finish.		
	☑ Do not restart nove		
	< Back Finish Cancel		

Select "Do not restart now" and click Finish when setup is complete. (This allows you to install other drivers and utilities before restarting.)

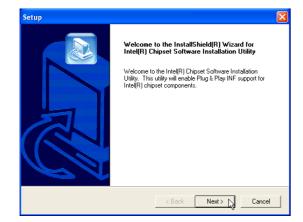
Intel INF Update

(Required Driver)

Topics Covered: Intel INF Update Setup

Intel INF Update Setup

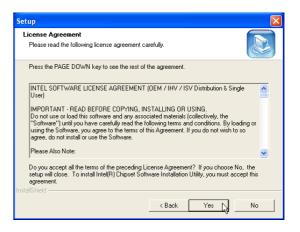
Running setup will give you the following wizard. No other configurations are necessary.



On the "Welcome" screen, click **Next** after reading the message.

Setup	
Readme Information	
Readme.txt	
Product: Intel(R) Chipset Software Installation Utility Release. Production Version Version: 5.1.0.1007 Target Chipsett: Intel(R) 6300ESB Date: Sep 04, 2003 Note: For the list of supported chipsets, please refer to the Release Notes	
	~
InstaliShield	Cancel

On the "Readme" screen, click **Next** after reading the message.



On the "License Agreement" screen, click **Yes** after reading the message.

Setup	
	InstallShield(R) Wizard Complete The InstallShield(R) Wizard has successfully installed Intel(R) Dispet Software Installation Utility. Before you can use the program, you must restart your computer (* Yes, I want to restart my computer now. (* No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	K Back Finish Cancel

Setup is now complete, select "No..." and click **Finish** in order to install other items.

品

LAN

(Required Driver)

Topics Covered: LAN Driver Setup Configuring your LAN

LAN Driver Setup

You will see a "Found New Hardware Wizard" if you device requires setup. If not your driver may already be installed by Windows. If your device is not working, you can manually install the driver as follows:

⊡~% Other devices	
Normally, you will get a "Found New Hardware Wizard" as shown on the next step. If not, double click the Network Controller with a question mark in "Device Manager".	
Hardware Update Wizard	
Please choose your search and installation options.	
Search for the best driver in these locations.	



Browse to the appropriate folder and click **Next**. (path will vary depending on version)

Marvell	Yukon Gigabit B	thernet 10/100/1000Base-T A <table-cell></table-cell>		
General	Advanced Diagr	nostic Driver Resources Power Management		
H	Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Adapter, Copper RJ-45			
	Driver Provider:	Marvell		
	Driver Date:	10/2/2003		
	Driver Version:	6.32.0.0		
	Digital Signer:	Microsoft Windows Hardware Compatibility Publ		
	Jninstall	To uninstall the driver (Advanced).		
		OK Cancel Help		

Click **Close** to close the properties window.



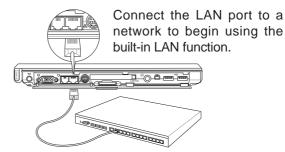
Select "Install from..." and click Next.



Click Finish when setup is complete.



The driver, when properly setup, will appear as the above in Device Manager.

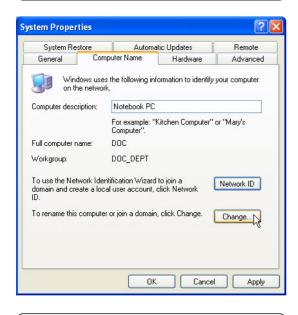


Configuring your LAN

Joining a Domain or Workgroup (Windows XP)

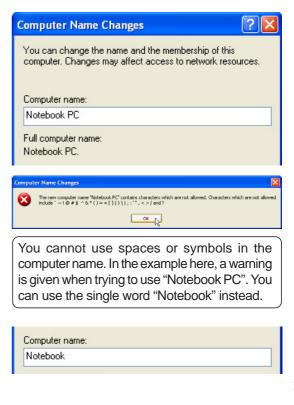


(1) Click Start and My Computer.



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





Joining a Domain or Workgroup (Cont')

Computer Name Changes
You can change the name and the membership of this computer. Changes may affect access to network resources.
Computer name:
Notebook
Full computer name: Notebook.
More
Member of
O Domain:
DOC_DEPT
O Workgroup:
DOC_DEPT
OK Cancel

(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.

Computer Name Changes					
	Ger				
Enter the name and password of an account with permission to join the domain.					
User name:	🖸 Administrator 🛛 🔽				
Password:	•••••				
	OK Cancel				

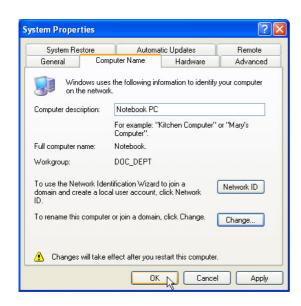
Computer Name Changes 🛛 💽 🔀
You can change the name and the membership of this computer. Changes may affect access to network resources.
Computer name:
Notebook
Full computer name: Notebook.
More
Member of
O Domain:
DOC_DEPT
• Workgroup:
DOC_DEPT
OK Cancel

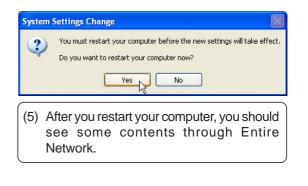
(4b) Workgroup:

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)

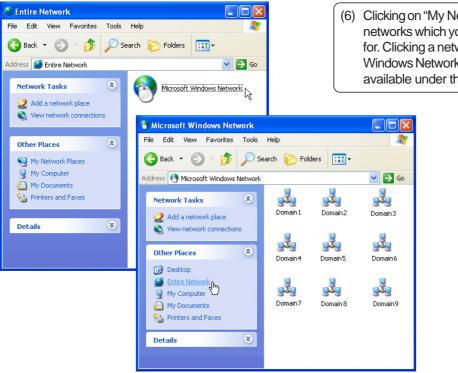
.omputer r	ame Chan	ges						
	-			g to join the domai				
Mu allo	tiple connect wed. Discon	tions to a ser nect all previ	ver or sha ious conne	red resource by th ctions to the serve	e same us r or share	er, using mor d resource ar	re than one use nd try again	r name, are r
				ок)			
Adm	inis	trate	or N	Jamo	or	Pass	sword	t no
		uuu	U I I	Valle	01	1 433		
acco	epte	d: \	You	canno	ot	login	with	n the
acce Adm	epte inistr	d: ator	You nam	canno ne and	ot use	login e one	with pass	n the word
acce Adm then	e pte inistr use t	d: ator he A	You nam dmii	canno ne and nistrato	ot use or na	login e one ime v	with pass vith ar	n the word nothe
acce Adm then	e pte inistr use t	d: ator he A	You nam dmii	canno ne and	ot use or na	login e one ime v	with pass vith ar	n the word nothe
acco Adm then pass	e pte inistr use t word	d: ator he A I to a	You nam dmii dd te	canno ne and nistrato	ot use or na nair	login e one ame v a. You	with pass vith ar u must	n the word nothe t logir
acco Adm then pass usin	epte inistr use t word g a	d: ator he A l to a noth	You nam dmii dd to ner	canno ne and nistrato o a don	ot use or na nair	login e one ame v a. You See	vith pass vith ar u must Wind	n the word nothe t logir dows

Joining a Domain or Workgroup (Cont')





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.

\bigcirc

Modem

(Required Driver)

<u>Topics Covered:</u> Modem Setup - Automatic Modem Setup - Manual Modem Configuration

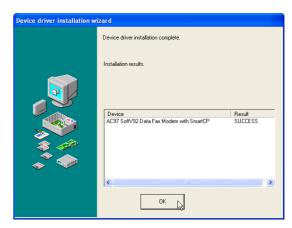
Modem Setup - Automatic

Running setup will give you the following wizard:

Device driver installation wizard		
	Welcome to the device driver installation wizard.	
	Click OK to install device drivers for ALL devices listed below. Click CANCEL to quit installation.	
	Device Task ACS7 SoftV32 Data Fax Modem with SmartCP INSTALL	
	OK CANCEL	

Click **OK** to install the modem driver.

Device driver installation wizard	
Installing device drivers	



After setup is complete, click $\ensuremath{\text{OK}}$ to close the wizard.

Modem Setup - Manual

If you have a problem using your modem and there is an exclamation or question mark on "PCI Modem", you can manually install the driver as follows:



Normally, you will get a "Found New Hardware Wizard" as shown on the next step. If not, double click the Network Controller with a question mark in "Device Manager".



Select "Install from..." and click **Next**. Browse to the your Windows version under the "modem" folder and click **Next**.



Click Finish when setup is complete.

Modem Configuration

Use New Connection Wizard in "Network Connections" to start the configuration wizard to your modem. The New Connection Wizard also allows configuration for other communication devices (if available) such as LAN, ISDN, ADSL, or Bluetooth.

S Network Connections	
File Edit View Favorites Tools Advanced Help	-
🚱 Back 🝷 🕥 😁 🏂 🔎 Search 🎼 Folders	»
Address 🔇 Network Connections 🛛 🖌	> Go
Wizard	^
New Connection Wizard	
5 objects	

Double-click New Connection Wizard in **Network Connections**



Select "Set up my connection manually" and click Next.



Select "Connect to the Internet" and click Next.



Select "Connect using a dial-up modem" and click Next.

Modem Configuration (Cont')

elect a Device This is the device that will be	used to make	the connection	n.	
You have more than one dial-	up device on	your computer.		
Select the devices to use in th	is connection	1:		
🗹 🐊 Modem - Actiontec M	DC AC'97 Mo	dem		

Select your modem and click Next.

New Connection Wizard
Phone Number to Dial What is your ISP's phone number?
Type the phone number below. Phone number:
2808-2022
You might need to include a "1" or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct.
<back next=""> Cancel</back>

Enter the dial up number for your ISP.

w Connection Wizard	
Connection Name What is the name of the service that provide	es your Internet connection?
Type the name of your ISP in the following bo	x.
ISP Name	
My ISP	
The name you type here will be the name of t	
	< Back Next > Next > Cancel

Enter any name to represent your ISP.

New Connection Wizard
Connection Availability You can make the new connection available to any user or only to yourself.
A connection that is created for your use only is saved in your user account and is not available unless you are logged on.
Create this connection for:
⊙ Anyone's use
My use only
< Back Next> Cancel

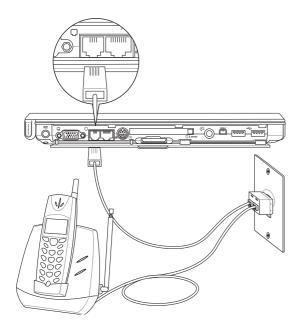
Selection one of the security preferences and click **Next**.

Modem Configuration (Cont')

4.
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New Connection Wizard		
Internet Account Information You will need an account name and password to sign in to your Internet account.		
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)		
User name:	name	
Password:	••••	
Confirm password:	••••	
Use this account name and password when anyone connects to the Internet from this computer		
✓ Make this the default Internet connection		
✓ Turn on Internet Connection Firewall for this connection		
	< Back Next > Cancel	

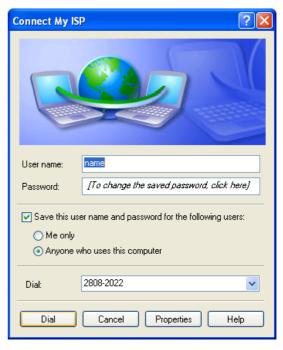
Enter your ISP account name and password and click **Next**.



Connect a telephone cable from your Notebook PC to a telephone jack.



Select "Add a shortcut..." and click Finish.



When you click on the link, the connection window will show. Click **Dial** to connect to your ISP.



ChkMail

(Optional Utility)

Topics Covered: ChkMail Setup

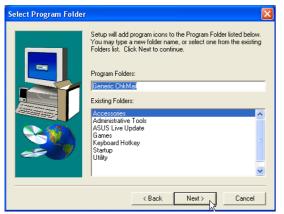
Screens will vary depending on your operating system but the contents should be the same.

ChkMail Setup

Running setup will give you the following wizard:



On the "Welcome" screen, click **Next** after reading the message.



On the "Select Program Folder" screen, click **Next** to continue or enter a different folder name.



You must install ATK0100 before running this utility.



On the "Choose Destination Location" screen, click **Next** to continue or you may first change the destination folder.

Setup Complete	
	Generic ChkMail Setup is complete. Choose the options you want below.
	 ✓ I would like to launch Generic ChkMail now. ✓ I would like to launch Generic ChkMail at Windows startup time.
29	Click Finish to complete Generic ChkMail Setup.
	< Back Finish

On the "Setup Complete" screen, click Finish.





(Required Utility)

Topics Covered: Setup Screens Hotkey Reference Hotkey Actions Adding a Program to Run

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

Hotkey Setup

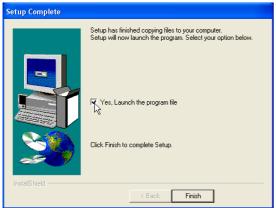
Running setup will give you the following wizard:



On the "Welcome" screen, click **Next** after reading the message.

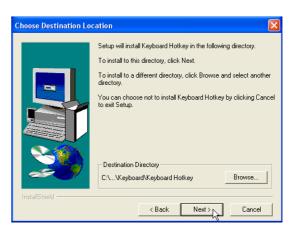
Start Copying Files	
	Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files. Current Settings:
	Setup Type: Complete Target Folder C:\Program Files\Keyboard\Keyboard Hotkey
20	User Information Name: . Company: .
InstallShield	< Back Next > Cancel

On the "Start Copying Files" screen, click **Next** after checking the current settings.





You can select to launch the utility now.



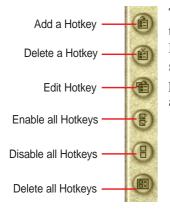
On the "Choose Destination Location" screen, click **Next** to continue or you may first change the destination folder.

Setup Complete	
	Setup has finished copying files to your computer. Before you can use the program, you must restart Windows or your computer. Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
InstallShield	< Back Finish

On the "Setup Complete" screen, click Finish.

Hotkey Reference

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.



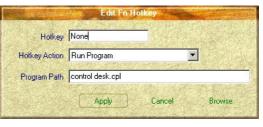
If you already have five hotkey settings, you will get this message.



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.



Fn Hotkey	Action	Parameter
✓ S1	Run Program	explorer
✓ \$2	Run Program	control desk.cpl
S3	Run Program	Test 1
✓ S4	Run Program	Test 2
✓ \$5	Run Program	Test 3
ŝ.		

Enable all Hotkeys

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

Fn	Hotkey
•	S1
•	S2
•	S3
•	S4
•	S5

Disable all Hotkeys

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

Fn	Hotkey
	S1
	S2
	S3
	S4
	S5

Hotkey Actions

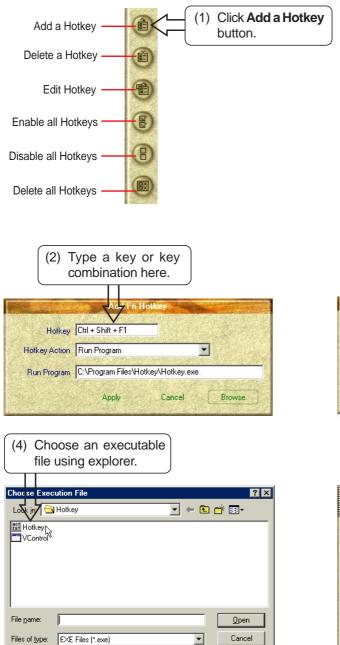
Actions	Descriptions	Examples (of action)
None:	Performs no action	
Move Window To Left:	Moves the active window left between 1-50 steps	
Move Window To Up:	Moves the active window up between 1-50 steps	
Move Window To Right:	Moves the active window right between 1-50 steps	

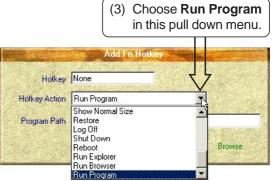
Actions	Descriptions	Examples (of action)
Move Window To Below:	Moves the active window down between 1-50 steps	
Extend Window From Left:	Stretches the active window left between 1-50 steps	Hew Istiler File Edit Vew Fearotes Tools Help Social + O Cipcounerts and Settings[Administrator[Desitop(New Folder ♥ ● 00 Cipcounerts and Settings[Administrator[Desitop(New Folder ♥ ● 00 T
Extend Window From Up:	Stretches the active window up between 1-50 steps	How Folder Image: Control of Control
Extend Window From Right:	Stretches the active window right between 1-50 steps	Im How Folder Im Im K File Off. Were Pervotes Tools Help Im K Im Off. Vere Pervotes Tools Help Im K Im Off. Vere Pervotes Tools Help Im K Im Off. Im K Im K Im
Extend Window From Below:	Stretches the active window down between 1-50 steps	New Folder Ple Edit Ver Foortes Tools Help Ple Edit Ver Foortes Tools Help Ple Edit Ver Foortes Tools Ple Ple Ple Ple Ple Ple Ple Ple Ple
Shrink Window from Left:	Shrinks the active window from the left between 1-50 steps	Hew Istiler Image: Comparison of the second secon
Shrink Window from Up:	Shrinks the active window from the top between 1-50 steps	New Jolder Per Lot Ver Per Territes Tools Holp Per Sec -
Shrink Window From Right:	Shrinks the active window from the right between 1-50 steps	New Falder File New Favores Tools Help One One
Shrink Window From Below:	Shrinks the active window from the bottom between 1-50 steps	New Falder File Edit Ver Fanzekes Tools Help Sector Provides Tools Help Sector Provides Tools Help Address Colpocurrents and Sattings/Administrating/address tools tools

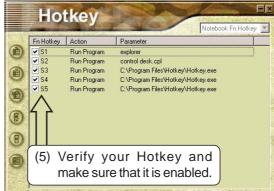
Actions	Descriptions	Examples (of action)
Minimize Window:	Minimizes the active window	- C X
Maximize Window:	Maximizes the active window	Maximize
Show Normal Size:	Shows the active window in normal size (user adjustable)	How Falder For GB Ver Faceter Tool He Search Products Tool He Search Products Tool Palaes Addres C:Documents and Setting/Advected and Desting/Heen Filder Search Palaes Search Palaes
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.	Log Off 📐
Shut Down:	Exits from Windows and turns OFF the Notebook PC.	Turn off computer
Reboot:	Restarts the Notebook PC	Turn off computer
Run Explorer:	Runs Windows Explorer	🖄 Windows Explorer 💦
Run Browser:	Runs the Internet Browser	Internet Explorer
Run Program:	Runs a user defined program	🖅 Run 🍃

Adding a Program to Run

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







50



LiveUpdate

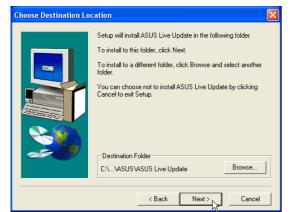
(Recommended Utility)

Topics Covered: LiveUpdate Setup Using LiveUpdate

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

LiveUpdate Setup

Running setup will give you the following wizard:



On the "Choose Destination Location" screen, click **Next** to continue or you may first change the destination folder.



On the "Setup Complete" screen, click Finish.



On the "Select Program Folder" screen, click **Next** to continue or enter a different folder name.

Flash B	IOS Program for Win98SE/WinME/Win2K/WinXP
⚠	Fail to open ACPI ATK0100 kernel mode Driver. Please install this driver first.
	ок

If you don't have "ATK0100" installed, you will get this message. You must "ATK0100" before using this utility.

Using LiveUpdate



Close other software to ensure no conflicts.



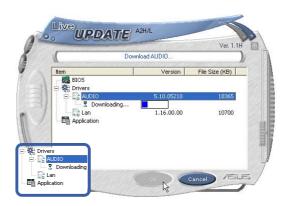
Newer versions will be shown. Check the items to update or select "Check all".



When update is complete, click **OK** to exit.



Click OK to connect to the "Live Update" server.





You may be instructed to "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.

Click OK to download and install the update.



PC-cillin 2002

(Recommended Utility)

Topics Covered: PC-cillin 2002 Features About Viruses Technical Support PC-cillin 2002 Feature Screens

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

Welcome to PC-cillin 2002

Trend Micro PC-cillin 2002 provides next generation secure computing for today's personal computers. More than just antivirus software, PC-cillin includes a Personal Firewall, Site filter, Internet mail scanning, and more for all your secure computing needs.

Designed for the home or small office user, the friendly interface lets you quickly become familiar with all the powerful features of the software. However, the program behind the interface uses the latest technology and provides you with protection from the nastiest viruses, sneakiest Trojans, and the meanest hackers. With firewall technology, the Trojan System Cleaner tool, and more, PC-cillin gives you peace of mind whenever you connect to the Internet. And now that Trend Micro's award winning ICSA approved scan engine also includes ScriptTrap technology, personal computing has never been more secure.

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 Microsoft ActiveX controls while surfing the Web
- · Detects and cleans live Trojans installed on your system
- Monitors your Microsoft Word and Microsoft Excel sessions for macro viruses, using MacroTrap
- Scans and cleans all files on your hard drive
- Scans all program files for viruses
- · Checks all your saved documents for macro viruses

Here's what you can do with just a 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 disks and clean any infected files
- Check all of your Word and Excel document(s) for macro viruses
- Scan your email attachments as they are being downloaded from an Internet (POP3) mail server
- Protect your computer against attacks from the Internet using a combination of cloaking and firewall functions
- Make whatever Web sites you want "off limits" to other users of the computer
- Protect your handheld devices with updated Personal Digital Assistant (PDA) virus pattern files

Personal Firewall

PC-cillin 2002 provides secure Internet computing with its new Personal Firewall feature. Easy to operate, the Personal Firewall protects your computer from unwanted Internet connections. The Personal Firewall is ideal for computers using always-on broadband (DSL, cable modem) connections, or for those computers that are often online. Even computers that only connect to the Internet for short periods of time are still vulnerable to hacker attacks and need protection.

With adjustable security levels, a trusted site list, and a port blocking function, the Personal Firewall gives you the control to keep your computer safe from malicious code like spyware and Trojan horses. The Personal Firewall is comprised of the following components:

Cloaking: Prevents your computer from being found. Cloaking hides the entry points (ports) of your computer making it appear to be disconnected from a network. Hackers using techniques like NetBIOS browsing, port scanning, or ICMP packet special processing will be unable to locate your computer.

Firewall: Provides a barrier between your computer and the network (LAN, Internet). This barrier examines and filters network traffic coming into your computer. By filtering network traffic, the firewall prevents malicious programs or files from entering your computer. The firewall protects against attacks hackers commonly use including: Ping of Death, IP conflict, SYN flooding, and others.

Trojan Backdoor Blocking: If a hacker has already broken into your system, he or she could have installed a Trojan (small hidden program) onto your computer (unlike viruses, Trojans do not replicate themselves, but can still wreak havoc on your system). To avoid being traced, the hacker can then use your computer to attack other computers. The Trojan Backdoor Blocking function prevents hackers from using your computer by blocking Back Orifice, Back Orifice 2000, Net Bus, Deep Throat and other known back door programs.

There may be Web sites that you know are safe and will not attack your computer. Using the Trusted Sites function, the Personal Firewall lets you add these safe sites to a list. Your computer can connect to any Web site on this list because they will not be filtered.

PC-cillin for Wireless

Malicious code and other threats hidden inside files, email, or on the Web can enter your Palm, Pocket PC, or EPOC device during beaming, synchronization, or Internet access. Trend Micro PC-cillin for Wireless provides portable, easy-to-use antivirus security for wireless devices; to defend against potential threats. Best of all, PC-cillin for Wireless is bundled with PC-cillin 2002 providing you with secure computing on both your desktop and handheld.

Trojan System Cleaner

PC-cillin automatically runs the Trojan System Cleaner (TSC) during initial installation, and every time Real-time Scan runs. The TSC detects the activity of Trojan horse programs, recovers system files which are modified by Trojans, stop their processes, and deletes files dropped from Trojans.

Traditional antivirus products only scan "files", they open files and check for virus code. But they don't check and clean system files and can't clean or delete Trojan horse programs (also known as Trojans) if it is already run in the system.

The TSC uses patterns to define how to clean a Trojan. These patterns are built into Trend Micro virus pattern files and are kept up-to-date. Whenever TSC is executed, it finds the newest pattern file and tries to read Trojan clean section from the pattern file.

ScriptTrap Technology

With the addition of ScriptTrap technology, PC-cillin now more than ever provides rock-solid protection for your computer. PC-cillin not only guards against harmful known script-based viruses ("I Love You" and "Anna Kournikova"), but can also protect your PC from new, unknown script-based threats.

Using the following processes, ScriptTrap automatically scans for scripting viruses based on "what they do" rather than how they are written:

lexical analysis- divides the script's source code into components, called tokens, based on punctuation and other keys.

semantic parsing- attempts to determine the meaning of each component.

Emergency Lock

PC-cillin also includes an Internet Emergency Lock function that lets you immediately disable all Internet activity if you suspect an attack. Enabling the Emergency Lock function immediately stops all traffic to and from the Internet.

User Interface

Designed for the home or small office user, the program's friendly interface quickly familiarizes you with the powerful features of PC-cillin 2002. The interface now includes a Simple and Standard mode. Using a tab interface, you can easily switch between the two modes.

Simple mode: Perform common PC-cillin tasks such as: view a simplified version of your system status, and scan all drives. In addition, you can update and register your software.

Standard mode: Access more advanced PC-cillin 2002 functions including: viewing your system status in more detail, selectively scanning folders, synchronizing your PDA, quarantining files, and viewing logs. In the Standard mode, as in the Simple mode, you can also update and register your software.

About Intelligent Update

Intelligent Update automatically searches for and downloads the latest files for PC-cillin 2002. This includes pattern and program files for both the main program and PC-cillin for Wireless. In addition, Intelligent Update ensures you have the latest Personal Firewall rules. This powerful function keeps PC-cillin and all its components updated; offering you maximum protection with minimal user intervention.

Once your computer is running, PC-cillin checks for an Internet connection. When this feature is enabled and your computer is online, PC-cillin automatically connects to the Trend Micro server to check if the latest update is available. If newer components are on the server, a pop-up window appears asking if you want to start downloading. If you choose not to download immediately, the pop-up window reappears in 10 minutes.

New product registration method

PC-cillin 2002 offers a new way to register your software online. On our Registration Web page, simply type your name and email address in the appropriate fields, receive your License Key via email, and insert it into the correct field on the Register Now screen of the PC-cillin window.

Registration only takes a few minutes and Trend Micro provides technical support, virus pattern downloads, and program updates for one year to all registered users, after which you must purchase renewal maintenance.

About viruses

A computer virus is a program that replicates. To do so, it needs 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 is 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 a virus is harmful or not, its presence on your system can lead to instability and should not be 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 on the host system or across a network.

To learn more about any particular virus, or about viruses in general, you can access Trend Micro's online Virus Encyclopedia at: www.antivirus.com/.

How viruses are created

Until a few years ago, creating a virus required knowledge of a computer programming language. Today anyone with even a little programming knowledge can create a virus. Usually, though, misguided individuals who want to cause widespread, random damage to computers create viruses.

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 exists 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 data you are responsible for is safe, and that precious time is not wasted hunting down (and cleaning up after) viruses.

Accessing the Trend Micro Virus Encyclopedia

PC-cillin includes access to the online Trend Micro virus encyclopedia, organized by name and virus type. Use it to find out about tens of thousands of individual viruses, including the typical symptoms of a given virus, its infection procedure, and the damage routine.

With the growing prevalence of Macro viruses, we have bolstered the number of Macro virus descriptions included in the encyclopedia to well over 2000.

Of course, PC-cillin, which uses Trend's award-winning, 32-bit, multi-threading scan engine, is capable of detecting all viruses that are known to be in circulation, plus the many thousands more that exist as "proof of concept" only in researcher's virus labs and on hacker's computers.

To access the Trend Micro Virus Encyclopedia, on the PC-cillin menu bar, click Security Info>Encyclopedia..

Viewing the Trend Micro Virus list

The Virus Information Center contains a list of the Real-time top ten viruses. In addition, you can view updated Security Alerts and Virus Advisories.

To access the Trend Micro Virus list, on the PC-cillin menu bar click, Security Info > Virus List.

Contacting Technical Support

Trend Micro provides technical support, virus pattern downloads, and program updates for one year to all registered users, after which you must purchase renewal maintenance.

Send an email to our highly trained technical support staff or visit our Web site to receive technical support.

Trend Micro Technical Support

Email: support@trendmicro.com

URL: www.antivirus.com

To speed up your problem resolution, when you contact our staff please provide as much of the following information as you can:

- Product serial number
- PC-cillin program, scan engine, pattern file, version number
- OS name and version
- Internet connection type
- Exact text of any error message given
- Steps to reproduce the problem

Before Contacting Technical Support

While our technical support staff is always pleased to handle your inquiries, there are a couple things you can do to quickly find the answer you are seeking.

- Check the documentation: the manual and online help provide comprehensive information about PCcillin. Search both documents to see if they contain your solution.
- Visit our technical support Web site: our technical support Web site contains the most up-to-date information about all Trend Micro products. Other inquiries that were already answered are also posted on the support Web site.

PC-cillin 2002 Feature Screens

PC-cillin 2002 Real-time Monitor

The Real-time Monitor is the quickest way to access certain functions, for example to display the PC-cillin or Settings windows. With the Realtime Monitor, you know at a glance if real-time scanning is enabled (the lightning streak icon is red) or disabled (the lightning streak icon is grey).

Configuration Screen

Double click the PC-cillin icon on the taskbar to bring up the real-time scan information page. Or right click and select "Configuration".

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

Real-time Status

Select "Real-time Status" by right clicking on the PC-cillin icon and you will bring up information on your virus pattern version, last scanned file, and network activity.

Stop Network Activity

Click the large button with a computer and broken network cable to stop all network activity if you suspect harmful activities are being made to your computer from the network.



The Emergency Lock is activated. All incoming and outgoing Internet traffic is halted.

PC-cillin is connecting to the Trend Micro server to download the latest updates.



Your computer is currently under attack.



The real-time scanning function is enabled.



The real-time scanning function is disabled.

PC-cillin 2002 TREND MICRO PC-cillin2002		
Simple Standard	d 🔿 Settings HELP S	UPPORT SECURITY INFO ABOUT
Bystem status	virus attacks. The current sta To configure PC-cillin, on the	computer from malicious programs and tus of PC-cillin 2002 is displayed below. e menu bar click 'Settings'.
Update	Real-time Scan Real-time Scan: Time of last virus found: Last virus found: Last infected file:	Enabled
	Personal Firewall Personal Firewall	Enabled
View Logs	Time of last attack Source of last attack Last attack type	04:35 PM, Sep 12, 2002 192:168:8:2 NetBIOS Browsing
(A) Register	Bytes sent Bytes received:	5,910,624 12,144,141

ealtime Monitor
Real-time Scan Monitor
Realtime Scan Information
Pattern Version: 345
Latest file scanned:
C:\Program Ficillin 2002\lastscan.ini
Firewall Traffic Information
Received bytes:
Sent bytes:
During a suspected virus outbreak or hacker attack, click 'Emergency Lock' to immediately cease all Internet activity.



Power4 Gear+

Topics Covered: Power4 Gear+ Setup Benefits of Power4 Gear+ Power4 Gear+ Interface Power4 Gear+ Configuration

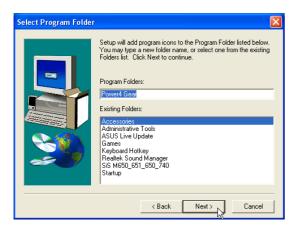
Screens will vary depending on your operating system but the contents should be the same.

Power4 Gear+ Setup

Running setup will give you the following wizard:



On the "Welcome" screen, click **Next** after reading the message.



On the "Select Program Folder" screen, click **Next** to continue or enter a different folder name.



If you don't have "ATK0100" installed, you will get this message. You must "ATK0100" before using this utility.



On the "Select Program Folder" screen, click **Next** to continue or enter a different folder name.

Setup Complete	
	Power4 Gear Setup is complete. Choose the options you want below. I would like to launch Power4 Gear now. I would like to launch Power4 Gear at Windows startup time. Click Finish to complete Power4 Gear Setup.
	< Back Finish

On the "Setup Complete" screen, click Finish.

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 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.

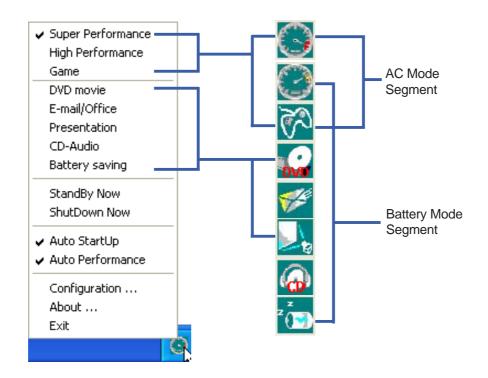
Icons	Mode Names	Power Segment
\bigcirc	Super Performance	AC
\mathbb{O}	High Performance	AC/DC
\sim	Game Performance	AC/DC
	DVD Movie Performance	DC
The	Email/Office Performance	DC
	Presentation Performance	DC
@	Audio Listening Performance	DC
z 🔁	Battery-Saving Performance	DC

Using the task bar icon

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

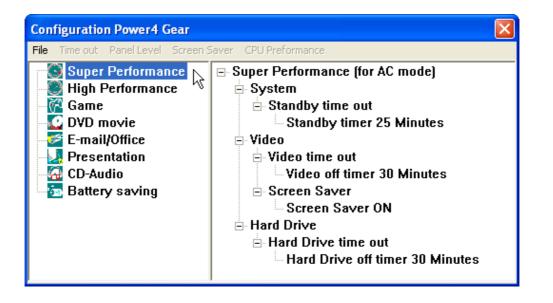
Power4 Gear+ Modes and Power Segments

When you are using an AC adapter, the Power4 Gear+ button will allow switching between three modes as shown above. When you remove the AC adapter, the Power4 Gear+ button will allow switching between seven modes as shown above. When you remove or apply the AC adapter, Power4 Gear+ will automatically shift you up or down into the proper mode segment.



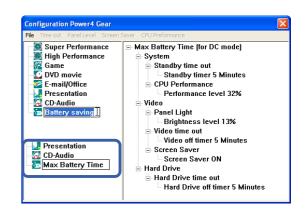
Power4 Gear+ Configuration

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.



Renaming Settings

You can rename the power saving levels as you like using the same method to rename files or folders in Windows. In the example on the right, the brightness level is decreased to 13% and the name is changed to "Max Battery Time".



Power Saving Details

Double click an item to view possible settings. Some power saving items are only available under certain modes.

CPU Performance

System

Hard Drive Off Timer

- Standby timer 5 Minutes
- CPU Performance
 Performance level 32%

ъ	100%	
	64%	
	32%	

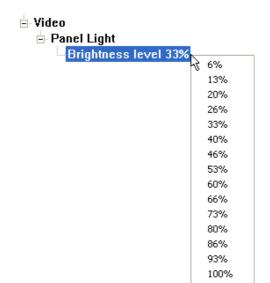
System Standby Timer

⊡-System ⊨-Standby time out	
Standby timer 25 Minute	1 Minute
	2 Minutes
	3 Minutes
	5 Minutes
	10 Minutes
	15 Minutes
	20 Minutes
	25 Minutes
	30 Minutes
	45 Minutes
	1 Hour
	2 Hours
	3 Hours
	4 Hours
	5 Hours
	Never

Hard Drive time out Hard Drive off timer 30 Minutes M

20 Minute 25 Minute 30 Minute 45 Minute 1 Hour 2 Hours 3 Hours 4 Hours 5 Hours Never

Display Panel Brightness



Display Panel Off Timer

⊟- Video ⊡- Video time out ↓ Video off timer 30 Minutes	
The on the so windes	1 Minute
	2 Minutes
	3 Minutes
	5 Minutes
	10 Minutes
	15 Minutes
	20 Minutes
	25 Minutes
	30 Minutes
	45 Minutes
	1 Hour
	2 Hours
	3 Hours
	4 Hours
	5 Hours
	Never



Probe2

Topics Covered: Probe2 Setup Probe2 Reference Starting Probe2 Using Probe2 Monitoring Probe2 Task Bar Icon

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

Probe2 Setup

Running setup will give you the following wizard:



On the "Welcome" screen, click **Next** after reading the message.



On the "Select Program Folder" screen, click **Next** to continue or enter a different folder name.



On "Choose Destination Location", click **Next** to continue or enter another destination folder.

Setup Complete	
	ASUS Probe Setup is now completed. You should reboot the system and you can choose to auto-execute ASUS Probe each time Windows boots up. Choose the options you want below.
	✓ Yes, I want to restart my computer now. ✓ Yes, I want to auto-execute ASUS Probe
2	Click Finish to complete Setup.
< Back Finish	

On the "Setup Complete" screen, click Finish.

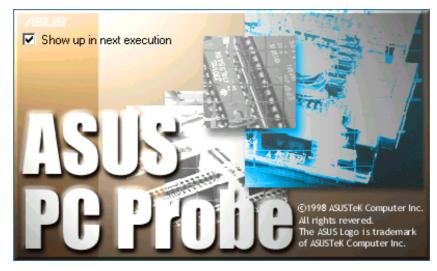
Probe2 Reference

Probe2 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 Probe2

If the Probe2 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 Probe2 starts, a splash screen appears allowing you to select whether to show the screen again when you open Probe2 or not. To bypass this startup screen, clear the **Show up in next execution** check box.



The Probe2 icon will appear on the taskbar's system tray indicating that Probe2 is running. Clicking the icon once will allow open the Probe2 interface.

Windows XP Taskbar

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



Using Probe2 Monitoring



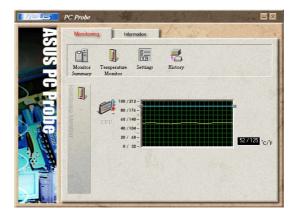
Monitor Summary

Shows a summary of the items being monitored.



Settings

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



Temperature Monitor Shows the PC's temperature.

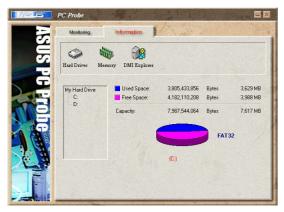
/isus	PC Probe
E	Monitoring Information
ASUS PC	Monitor Temperature Settings History
G H	Select a Date 9/13/2002 Recording. F Target History
ā	Temperature 120 Time 12.55.00 PM
	P⊂CPU 10/A 80
J.	

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.

Using Probe2 Monitoring (Cont')

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.

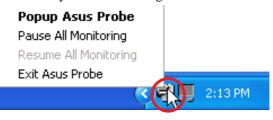


Memory

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

Probe2 Taskbar Icon

Right clicking the Probe2 icon will bring up a menu to open or exit Probe2 and pause or resume all system monitoring.



When the Probe2 senses a problem with your PC, portions of



the Probe2 icon changes to red and audio alerts will be heard from the speaker.

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TouchPad

(Recommended Utility)

Topics Covered: TouchPad Setup 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.

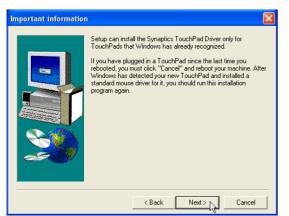
Touchpad Setup

Running setup will give you the following wizard:



Software Utilities

On the "Choose Setup Language" screen, select a language and click **OK** to continue.



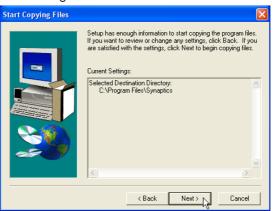
On the "Information" screen, click **Next** after reading the message.



On the "Setup Complete" screen, select "No,..."and click **Finish**.



On the "Welcome" screen, click **Next** after reading the message.



On the "Start Copying Files" screen, click **Next** after checking the current settings.

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 Touch-Pad 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 left-most 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 TouchPad: 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.

Mouse Properties	:
Buttons Pointe	rs Pointer Options Hardware 🕢 Touch 🕢 Edge Motion
Virtual Scrolling	ynaptics TouchPad Properties - Version 5.5.6.17Jun01 Synaptics TouchPad V4.6 on PS/2 Port 3 of Active Window acted Item i Under Pointer Practice Practice Vertical Scrolling Vertical Scrolling
Scrolling Spe	ed (3)
Defaults	www.synaptics.com
	OK Cancel Apply Help

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).

Mouse Pro	perties				? 🛛
Buttons	Pointers	Pointer Options	Hardware	🕢 Touch	 Edge Motion Button Actions
Scn	Janig		•		
	Syna	ptics TouchPad Pr Synaptics Touch			01
T 7		synaptics rouch	r du v 4.6 Uri F	372 FUIL 3	
Tap Zo	nes ible Tap Zon	es			
			orner tap actio		
1	Menu		F	Маж	imize 👻
l r	Start			Mini	
			Ľ		mize
- Touchp	ad Patent N	otification			
		001 Synaptics, Inc. chPad and related s	oftware are pr	otected by one	or more of
the fol	owing patent				
Joniced	Jidies, J.Jr	4,707, 3,400,204, 3	,400,077,0,04	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
D	efaults	1			www.synaptics.com
	ordano				
		ОК	Cancel	Appl	y Help

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.

Mouse Properties
Buttons Pointers Pointer Options Hardware 🕢 Touch 🕢 Edge Motion
Synaptics TouchPad Propetties - Version 5.5.6 17Jun01 Synaptics TouchPad V4.6 on PS/2 Port 3
Pointer Motion Stop Pointer at Window Borders None Slow None Constrained
Tray Icon
Pointer Refresh Rate • Fast (smoother pointer motion)
C Slow (better with slow computers or some animated pointers)
Defaults www.synaptics.com
OK Cancel Apply Help

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.

Mouse Prop	erties			?	>	
Buttons		ointer Options Tap Zones	Hardware	O Touch O Edge Motio		
Schearting Tap Zones Mote Peatures Union Academic Synaptics TouchPad Properties - Version 5.5.6 17Jun01 Synaptics TouchPad V4.6 on PS/2 Port 3 Select Actions for Buttons Left Button Right Button						
Rocker Switch Scroll Up 💌 Middle 💌 Scroll Down 💌						
Defaults www.synaptics.com						
		ОК	Cancel	Apply Help		

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.

Mouse Properties	×				
Scrolling O Tap Zones O More Features O Button Action	-				
Buttons Pointers Pointer Options Hardware 🥝 Touch 💪 Edge Moti	on				
Synaptics TouchPad Properties - Version 5:5.6 17Jun01 Synaptics TouchPad V4.6 on PS/2 Port 3					
Taps ↓ Tap to Click ↓ Tap and Drag					
Locking Drags					
Touch Sensitivity (30)					
Light Touch Heavy Touch					
PalmCheck (4)					
Minimum Maximum					
Helps to prevent accidental pointing while typing					
Disable this Device					
Defaults www.synaptics.com					
OK Cancel Apply Hep					

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.

Mouse Properties					
Scrolling () Tap Zones () More Features () Button Actions Buttons Pointers Pointer Options Hardware () Touch () Edge Motion					
Synaptics TouchPad Properties - Version 5.5.6 17Jun01 Synaptics TouchPad V4.6 on PS/2 Port 3					
Edge Motion					
I When Dragging I Always I When Scrolling					
Edge Motion Speed (3)					
Control edge motion speed with finger pressure					
Slow Fast					
Defaults www.sunaptics.com					
OK Cancel Apply Help					

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 TM 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.

Frequently Asked Questions (Cont')

- 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.



WinFlash

(Recommended Utility)

Topics Covered: WinFlash Setup Using WinFlash

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

WINFLASH Setup

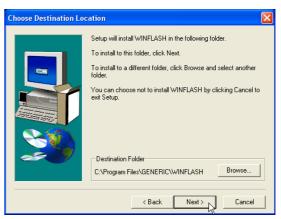
Running setup will give you the following wizard:



On the "Welcome" screen, click **Next** after reading the message.



On the "Select Program Folder" screen, click **Next** to continue or enter a different folder name.



On the "Choose Destination Location" screen, click **Next** to continue or you may first change the destination folder.

Setup Complete	
	Setup has Finished installing WINFLASH on your computer. Click Finish to complete Setup.
	< Back Finish

On the "Setup Complete" screen, click Finish.

Using WINFLASH

WINFLASH is a simple utility to update your Notebook PC's BIOS. To run **WINFLASH**, access the **All Programs** shortcut through the **Start** button.

Flash Bl	Flash BIOS Program for Win98SE/WinME/Win2K/WinXP				
٩	This Program will Updata your BIOS. Only update your BIOS if you have problems with your Notebook PC and you know that the new BIOS revision will solve your problems (read the BIOS release information provided on the download site before using).				
	Careless updating can result in your Notebook PC having more problems!				

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.



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.



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

BIOS SETUP UTILITY						
Main	Advanced	Display	Security	Power	Boot	Exit
Exit Op	tions					system setup saving the
Save Changes and Exit Discard Changes and Exit						es.
Discard	Changes					ey can be used his operation.
	<u>timal Defaul</u> ilsafe Defau					
					 11	Select Screen Select Item
						Go to Sub Screen
					F9 F10 ESC	
					ESU	LXIT
	v02.33 (C	Copuright	1985-2002, Am	erican Me	gatrend	s. Inc.

You may be instructed to "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.



Memory Reader

(Additional Driver)

Topics Covered: Memory Reader Driver Setup

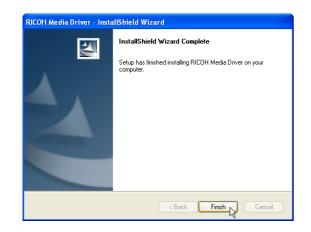
Screens will vary depending on your operating system but the contents should be the same.

Memory Reader Driver Setup

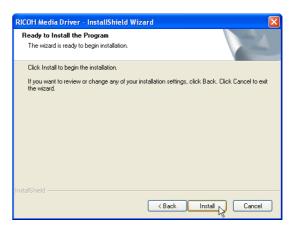
Depending on your operating system version and drivers installed, you may or may not require this driver. If the built-in flash memory card does not work. Try installing this driver. Running setup will give you the following wizard:



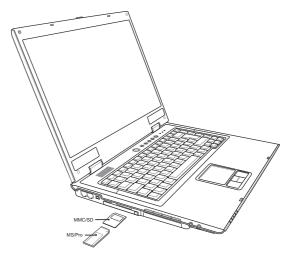
On the "Welcome" screen, click **Next** after reading the message.



On the "Setup Complete" screen, click Finish.



Click Install to begin installing the driver.



After the memory reader driver is installed, you can read or write to various memory types. See the hardware manual for information on supported memory types.

BIOS Setup

Updating your BIOS	
BIOS Setup Program	
Main	100
Advanced	101
Advanced (sub-menu)	102
Display	105
Security	106
Security (sub-menu)	108
Power	
Boot	111
Boot (sub-menu)	
Boot	
Exit	

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 three BIOS update software as provided on the support CD: (1) "**LiveUpdate**" is a Windows utility to automatically search for a newer BIOS file on the Internet and install it for you, (2) "**WinFlash**" can be used in Windows to update your BIOS using a file that you specify, and (3) "**Aflash**" is a DOS utility to allow BIOS updating without using the Windows operating system.

BIOS Menu Bar

The top of the screen has a menu bar with the following selections. Highlighting a menu item with the \leftarrow or \rightarrow (keypad arrow keys) will automatically display that page on the screen.

NOTE: Press [F2] to switch BIOS setup utility display color.



MAIN

Use this page to view basic system configurations such as BIOS version, CPU type, memory size, and Date/Time.

ADVANCED

Use this page to enable and make changes to the advanced features such as IDE devices and internal pointing device.

DISPLAY

Use this page to make changes to the Notebook PC's internal and external display features.

SECURITY

Use this page to set passwords and control access to the BIOS setup utility and hard disk drive.

POWER

Use this page to configure power/performance management features.

BOOT

Use this page to configure storage devices used to load the Operating System.

EXIT

Use this page to load or save settings and to exit the BIOS setup program.

BIOS Utility Help

On the right of each page will display help information to guide you through using the BIOS setup utility. 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.

Use [ENTER], [TAB] or [SHIFT-TAB] to select a field. Use [+] or [-] to configure system Time.	 ↔ Select Screen ↑↓ Select Item Enter Go to Sub Screen F1 General Help F9 Load Defaults F10 Save and Exit ESC Exit 	Options Disabled Enabled Option box
 ↔ Select Screen ↑↓ Select Item ← Change Field Tab Select Field F1 General Help F9 Load Defaults F10 Save and Exit ESC Exit 	 ↔ Select Screen ↑↓ Select Item Enter Change F1 General Help F9 Load Defaults F10 Save and Exit ESC Exit 	

Navigation Key(s)	Function Description
[Enter]	Brings up a selection menu or enter a sub-menu
[Tab] or [Shift-Tab]	Scrolls though multiple fields for those that have them
+ or – (shift =)	Increase or decrease a field value for those that have them
\leftarrow or \rightarrow (keypad arrow)	Selects the menu item to the left or right
\uparrow or \downarrow (keypad arrows)	Moves the highlight up or down between fields
[F1]	Displays a general help screen from anywhere in the BIOS Setup
[F9]	Load optimal default settings (confirmation will be asked)
[F10]	Saves changes and exit (confirmation will be asked)
[Esc]	Jumps to the Exit menu or returns to the main menu from a sub-menu
[Home] or [PgUp]	Moves the cursor to the first field
[End] or [PgDn]	Moves the cursor to the last field
[F2] or [F3]	Scrolls forward or backward through display colors in the BIOS setup utility as follow: Black/Blue on Gray, Gray on Blue, White on Black
[F7]	Discard changes and exit (confirmation will be asked)
[F8]	Load safe default settings (confirmation will be asked)

F1 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.

1 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 appears to the left of certain fields. This pointer indicates that a submenu 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 submenu 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.

P Resetting Your BIOS

If you ever hear "resetting your BIOS", it entails pressing [F2] on bootup to enter BIOS setup and then selecting **Load Optimal Defaults** on the "Exit" page. Or you may use [F9] on any page.

		Bl	LOS SETUP UTI	LITY		
Main	Advanced	Display	Security	Power	Boot	Exit
Exit Op	tions					ystem setup saving the
Discard Discard Load Op	anges and Ex I Changes and I Changes timal Defaul ilsafe Defau	Exit ts			change F10 ke for th t↓ F1	
					F10	Save and Exit Exit
	02.22.70		1005 2002	· •		
	VU2.33 (U)Copyright .	1985-2002, Am	ierican fie	gatrends	, Inc.

Main

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

Main	Advanced	Display	OS SETUP UT Security		Boot	Exit
System (lverview					[ENTER], [TAB] SHIFT-TAB] to
AMIBIOS						t a field.
Version	: 0201.00	2				
Build Da	te: 03/16/0	4				[+] or [-] to igure system Time
Processo	r					
Туре	: Intel(R) Pentium(R)	M processo	1700MH		
Speed	: 1700MHz					
System M	lemory					
Size	: 1024MB					
					↔	Select Screen
System I			[09:43:55]		↑↓	Select Item
System I)ate		[Wed 03/17/2	2004]	+-	Change Field
					Tab	
					F1	
					F9	Load Defaults
					F10	Save and Exit
					ESC	Exit

System Overview

AMIBIOS

Version : [XXXX] (display field)

This displays the current BIOS version in the Notebook PC's flash EEPROM.

Build Date : [XX/XX/XX] (display field)

This displays the current BIOS version release date in the Notebook PC's flash EEPROM. **Processor**

Туре

: [Intel(R) Pentium(R) M CPU 1400MH] (display field)

This displays the current CPU model.

Speed : [XXXXMHz] (display field)

This displays the CPU speed specified by the above processor.

System Memory

Size: : [1024MB] (display field)

Shows the amount of usable memory available to your operating system.

System Time [xx:xx:xx] (display field)

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

System Date [xxx xx/xx/xxxx] (display field)

Sets your system to the date that you specify (usually the current date). The format is Day of the week, Month, Day, Year. Use the [Tab] or [Shift Tab] keys to move between the fields.

Advanced

Selecting this item from the previous menu displays the page as shown below.



Advanced Settings

> IDE Configuration (see next page)

Internal Pointing Device [Enabled]

This allows you to turn ON or OFF the Notebook PC's built-in touchpad. Some external pointing devices have extra functions that may not function without turning OFF the Notebook PC's touchpad. The configuration options are: [Enabled] [Disabled]

Internal Numeric Pad Lock [Enabled]

This allows you to turn ON or OFF the Notebook PC's Numeric Keypad function. The configuration options are: [Enabled] [Disabled]

LCD Screen Expansion [Yes]

This function will stretch the displayed image to fill the Notebook PC's LCD display when the software (such as DOS applications) cannot do so. The configuration options are: [No] [Yes]

LED Display [Enabled]

This allows you to turn ON or OFF the Notebook PC's Audio/Video status display. The configuration options are: [Enabled] [Disabled]

AV Status Display		~
On selected models		

Advanced (sub-menu)

Selecting this item from the previous menu displays the page as shown below.

IDE Configuration		DISABLED: disables the
OnBoard PCI IDE Controller • Primary IDE Master • Primary IDE Slave • Secondary IDE Master • Secondary IDE Slave	[Both] : [Hard Disk] : [ATAPI CDROM] : [Not Detected] : [Not Detected]	integrated IDE Controller. PRIMARY: enables only the Primary IDE Controller. SECONDARY: enables only the Secondary ID Controller. BOTH: enables both ID Controllers. ↔ Select Screen 14 Select Item ← Change Option F1 General Help F9 Load Defaults F10 Save and Exit ESC Exit

IDE Configuration

> Onboard PCI IDE Controller [Both] (shows enabled item)

This item allows you to enable or disable the IDE channels. The configuration options are: [Disabled] [Primary] [Secondary] [Both]

> Primary/Secondary IDE Master/Slave (display field)

[Hard Disk]

This item automatically detects any IDE device connected here. Press [Enter] to edit device information. (Editing device information is only used for troubleshooting by technical computer experts and should never be edited by users.)

[ATAPI CDROM]

This item automatically detects any IDE optical drive connected here. Press [Enter] to edit device information. (Editing device information is only used for troubleshooting by technical computer experts and should never be edited by users.)

[Not Detected]

If "Not Detected" is shown here, it means that there is no IDE device here, not properly connected, not compatible, or in a nonworking condition.

[Hard Disk]

Primary IDE Master		Select the type of device connected	
Device :Hard Disk Uendar :HTSS4000999100 Size :D0.0GD LD0 Mode :Supported Diock Mode:16Sectors PIO Mode :4 Reyme DMn :HultiWord DMn-2 Ultra DMn :Ultra DMn-5 Ultra DMn :Ultra DMn-5 S.M.A.R.T. Supported		he system.	
Tope LBA/Large Mode Block (Multi-Sector Transfer) PIO Mode DMA Mode S.H.A.R.I. 32Bit Data Transfer	[Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Enabled]	Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit	

[Primary IDE Slave - No Device]

Primary IDE Slave	Select the type
Device :ATAPI CDROM Vendor :TOSHIBA DDD-DVD SD-R637 LDA Mode :Supported PID Mode :4 Async DMA :MultiWord DMA-2 Ultra DMA :Ultra DMA-2	to the system.
Tupe DA P10 Hode DA DNA Hode DA DNA Hode DA	1

[Secondary IDE Slave - No Device]

[ATAPI CDROM]

BIOS SETUP UTILITY BIOS SETUP UTILITY Aduanced Advanced Select the type of device connected to the system. Secondary IDE Master Select the type of device connected to the system. Secondary IDE Slave :Not Detected Device Device :Not Detected Tupe LBA/Large Mode Block (Multi-Sector Transfer) PIO Mode DMA Mode S.M.A.R.T. 32Bit Data Transfer Tupe LBA/Large Mode Block (Multi-Sector Transfer) PID Mode S.M.A.R.T. 32Bit Data Transfer [Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Enabled] [Auto [Auto [Auto [Auto [Auto] [Enabled] †1 ţ1 +-F1 F9 F10 ESC +-F1 F9 F10 ESC

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. The configuration options are: [Not Installed] [Auto] [CDROM] [ARMD]

LBA/Large Type [Auto]

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: [Disabled] [Auto]

Block [Auto]

Auto automatically sets the number of sectors per block to the highest number supported by the drive. Disabled - The data transfer from and to the device occurs one sector at a time. Auto - The data transfer from and to the device occurs multiple sectors at a time if the device supports it. The configuration options are: [Disabled] [Auto]

PIO Mode [Auto]

When enabled, this option speeds up communication between the system and the IDE controller by using enhanced I/O transfer modes (PIO Modes). Different speeds are supported by different generations of IDE devices. The configuration options are: [Auto] [0] [1] [2] [3] [4]

DMA Mode [Auto]

When enabled, this option speeds up communication between the system and the IDE controller by using DMA capability (for improved transfer speeds and data integrity). Different speeds are supported by different generations of IDE devices. SW = Single Word, MW = Multiple Word, U = Ultra

Mode $0 = 16.7 MB/s$	Mode $1 = 25.0 \text{MB/s}$
Mode $2 = 33.3$ MB/s (ATA/33)	Mode $3 = 44.4$ MB/s
Mode $4 = 66.7 \text{MB/s} (\text{ATA}/66)$	Mode $5 = 100 \text{MB/s}$ (ATA/100)
The configuration options are: [Auto] [S	WDMA02] [MWDMA02] [UDMA04]

SMART Monitoring [Auto]

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. The configuration options are: [Auto] [Disabled] [Enabled]

32Bit Data Transfer [Enabled]

Enables or disables 32-bit data transfers for supported devices. The configuration options are: [Disabled] [Enabled]

NOTE: Item headings in square brackets represent the default settings for those fields.

Display

Selecting this item from the previous menu displays the page as shown below.

Main	Advanced	B Display	IOS SETUP UT Security		Boot	Exit
Configu	re advanced :	settings fo	r display			
Boot Dis	splay Device		[CRT+LFP]			
					↔	Select Screen
					†↓ +-	Select Item Change Option
					F1 F9	General Help Load Defaults
					F10	
					ESC	Exit
	u02.33 (C) Copyr ight	1985-2002, A	merican Meg	jatrend	ls, Inc.

Advanced display settings

Boot Display Device [CRT+LFP]

This item allows you to select which display output to use during system bootup. CRT is any display device connected to the monitor out connector. You can control the output device through software settings or keyboard hotkeys once you are inside the Windows operating system. LFP is the Notebook PC's own diplay panel. The configuration options are: [CRT] [LFP] [CRT+LFP]

Security

Selecting this item from the previous menu displays the page as shown below.



Security Settings

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.

The BIOS Setup program allows you to specify two separate passwords: a "Supervisor" password and a "User" password. When disabled, anyone may access all BIOS Setup program functions. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full access to all Security menu options.

Change Supervisor Password / Change User Password

The system password protects the BIOS settings. When "Enabled", you will be prompted for a password after you press [F2] to enter BIOS setup.

To set a password: Select "Change ... Password" and press [Enter], type a password (up to 8 letters/ numbers) 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 remove a password: Select "Change ... Password" and press [Enter] without entering a password.





Hard Drive Security

Primary Master HD Password

A hard disk 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:

- Hard drive password will be required on system bootup.
- Hard drive password will be required even to enter BIOS setup.
- 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:

- 1. Select the item and press [Enter], type a password and press [Enter]
- 2. Type the same password again and press [Enter] to confirm. (You can type up to eight alphanumeric characters. Symbols and other keys are ignored.)

A message will be shown in BIOS when successful "Password installed."

Future system bootup will display: "Hard Drive Locked, enter password:".

If you enter the wrong password, you will see "Primary Master Hard Disk Error" "Press F1 to Resume". Pressing F1 will display, "Reboot and Select proper Boot device or Insert Boot Media in selected Boot device and press a key". Make sure that you use "Save Changes and Exit".

To Disable:

Select the item and press [Enter] and enter the correct password. When asked for a new password, leave it blank and press [Enter]. A message will be displayed: "Password uninstalled." Make sure that you use "Save Changes and Exit".

> I/O Interface Security (see next page) Boot Sector Virus Protection [Disabled]

This function will stop any attempt to modify hidden bootup files on your hard disk drive. This function may prevent some applications from installing properly. The configuration options are: [Disabled] [Enabled]

Security (sub-menu)

Selecting this item from the previous menu displays the page as shown below.

I/O Interface Security		10000	CKED, the MODEM
LAN Network Interface Wireless Network Interface CardBus/1394/Card Reader Inter USB Interface On Board Audio	IUNLOCKEDI ILOCKEDI ILOCKEDI ILOCKEDI IUNLOCKEDI IUNLOCKEDI IUNLOCKEDI	disal	
		 ↔ †↓ +- F1 F9 F10 ESC 	Select Screen Select Item Change Option General Help Load Defaults Save and Exit Exit

I/O Interface Security

MODEM Interface [UNLOCKED]

This allows you to enabled or disable the built-in modem. The configuration options are: [UNLOCKED] [LOCKED]

LAN Network Interface [UNLOCKED]

This allows you to enabled or disable the built-in wired network. The configuration options are: [UN-LOCKED] [LOCKED]

Wireless Network Interface [UNLOCKED]

This allows you to enabled or disable the built-in wireless network. The configuration options are: [UNLOCKED] [LOCKED]

Cardbus/1394/Card Reader Interfaces [UNLOCKED]

This allows you to enabled or disable the built-in PC card slot and 1394 port. The configuration options are: [UNLOCKED] [LOCKED]

USB Interface [UNLOCKED]

This allows you to enabled or disable the built-in USB ports. The configuration options are: [UN-LOCKED] [LOCKED]

On Board Audio [UNLOCKED]

This allows you to enabled or disable the built-in Audio. The configuration options are: [UNLOCKED] [LOCKED]

Note: It is normal to see this message in Windows when you lock the Audio function. You should ignore this message and click "Don't send."

SmartWizard MFC Application
SmartWizard MFC Application has encountered a problem and needs to close. We are sorry for the inconvenience.
If you were in the middle of something, the information you were working on might be lost.
Please tell Microsoft about this problem. We have created an error report that you can send to us. We will treat this report as confidential and anonymous.
To see what data this error report contains, click here,
Send Error Report Don't Send

IR Interface [UNLOCKED]

This allows you to enabled or disable the built-in IR port. The configuration options are: [UNLOCKED] [LOCKED]

Power

Selecting this item from the previous menu displays the page as shown below.



Power Settings

Intel (R) SpeedStep(tm) tech. [Automatic]

This allows you to set the performance versus battery optimization method when AC power is applied or removed. The configuration options are: [Maximum Performance] [Battery Optimized] [Reversed] [Automatic] [Disabled]

LCD Power Saving [Enabled]

This allows you to set the performance versus battery optimization method when AC power is applied or removed. Enabled will dim the LCD display when using battery power. The configuration options are: [Disabled] [Enabled]

CPU Power Saving [Enabled]

This allows you to set the performance versus battery optimization method when AC power is applied or removed. Enabled will decrease the CPU speed when using battery power. The configuration options are: [Disabled] [Enabled]

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 recharge-able 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

Selecting this item from the previous menu displays the page as shown below.

Boot Settings Boot Settings Configuration Boot Device Priority Hard Disk Drives Removable Drives ATAPI CDROM Drives	Configure Settings during System Boot.
 Boot Device Priority Hard Disk Drives Removable Drives 	- auring system moot.
Onboard LAN Boot ROM [Disabled]	
	 ↔ Select Screen 14 Select Item Enter Go to Sub Screen F1 General Help F9 Load Defaults F10 Save and Exit ESC Exit

Boot Settings

- > Boot Settings Configuration
- > Boot Device Priority
- > Hard Disk Drives
- > Removable Drives
- > ATAPI CDROM Drives

Onboard LAN Boot ROM [Disabled]

This item allows you to enable or disable the built-in network device's boot ROM. When enabled you can select LAN as a boot device. Configuration options are: [Disabled] or [Enabled].

Device Explanations

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. To boot from LAN, "Onboard LAN Boot ROM" must be enabled.

Boot (sub-menu)

Selecting this item from the previous menu displays the page as shown below.

		Boot	
Boot Settings Configuration		Allows BIOS to skip ————————————————————————————————————	
Quick Boot Quiet Boot	[Enabled] [Enabled]	booting. This will decrease the time needed to boot the system.	
		 ↔ Select Screen ↑↓ Select Item ↔ Change Option F1 General Help F9 Load Defaults F10 Save and Exit ESC Exit 	

Boot Settings Configuration

Quick Boot [Enabled]

When enabled, BIOS will skip certain tests while booting. This will decrease the time needed to bootup the system. The configuration options are: [Disabled] [Enabled]

Quiet Boot [Enabled]

When disabled, BIOS will display normal POST messages. When enabled, BIOS will display a splash screen instead. The configuration options are: [Disabled] [Enabled]

NOTE: Item headings in square brackets represent the default settings for those fields.

Boot

Selecting this item from the previous menu displays the page as shown below.

Boot Device Priority		Specifies the boot
1st Boot Device 2nd Boot Device 3rd Boot Device	[M-Sys DiskOnKey] [PS-TOSHIBA ODD-DVD] [PM-HTS548080M9AT00]	sequence from the available devices. A device enclosed in parenthesis has been disabled in the corresponding type menu.
		 ↔ Select Screen ↑↓ Select Item ← Change Option F1 General Help F9 Load Defaults F10 Save and Exit ESC Exit

Boot Device Priority

1st Boot Device [Removable Dev.]

Specifies the boot sequence from the available devices. A device enclosed in parenthesis has been disabled in the corresponding type menu. The configuration examples are: [Removable Dev.] [MITSUMI USB FDD] [PM-IC25N040ATMR04-] [ATAPI CDROM] [Disabled] (The configuration options depend on "Hard Disk Drives" in the previous menu.)

2nd Boot Device [PM-IC25N040ATMR04-] (your model may differ) 3rd Boot Device [SM-TOSHIBA DVD-ROM] (your model may differ)

NOTE: Item headings in square brackets represent the default settings for those fields.

Exit

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:



Exit Options

Save Changes and Exit

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.

Discard Changes and Exit

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.

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.

Load Optimal Defaults

This option allows you to load the "Optimal" 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 **Save Changes and Exit** or make other changes before saving the values.

Load Failsafe Defaults

This option allows you to load the "Safest" values for each of the parameters on the Setup menus. This option is for troubleshooting purposes only and will decrease performance as well as disable some of the Notebook PC's functions. When this option is selected, 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 **Save Changes and Exit** or make other changes before saving the values.

Contact Information

ASUSTeK COMPUTER INC. (Asia-Pacific)

Company Address:150 Li-Te Road, Peitou, Taipei, Taiwan 112General Telephone:+886-2-2894-3447Web Site Address:General Fax:+886-2-2894-7798General Email:

Technical Support

MB/Others (Tel): +886-2-2890-7121 (English) Desktop/Server (Tel): +886-2-2890-7123 (English)

n) Notebook (Tel):n) Support Fax:

+886-2-2894-3447 +886-2-2890-7698

www.asus.com.tw

info@asus.com.tw

ASUS COMPUTER INTERNATIONAL (America)

Company Address:44370 Nobel Drive, Fremont, CA 94538, USAGeneral Email:tsd@asus.comGeneral Fax:+1-510-608-4555

Technical Support

Support Email: notebooktsd@asus.com General Support: +1-502-995-0883 Support Fax: +1-502-933-8713 Notebook (Tel): +1-510-739-3777 x5110

ASUS COMPUTER GmbH (Germany & Austria)

Company Address:Harkort Str. 25, D-40880 Ratingen, GermanyWeb Site Address:www.asuscom.deOnline Contact:www.asuscom.de/salesGeneral Fax:+49-2102-959901

Technical Support

Online Support: www.asuscom.de/support Component Support: +49-2102-95990 Support Fax: +49-2102-959911 Notebook Support: +49-2102-959910

ASUS COMPUTER (Middle East and North Africa)

Company Address: P.O. Box 64133, Dubai, U.A.E. Web Site Address: www.ASUSarabia.com

General Telephone:+9714-283-1774General Fax:+9714-283-1775