

# C H A P T E R ▼ O N E

## GETTING TO KNOW THE BASICS

This chapter introduces the features and components of the computer.

## Performance Features

### ■ High Performance Processor

The notebook PC is equipped with a powerful Intel processor of the latest sub-micron process, processor technologies, and high bus bandwidths.

### ■ Advanced Graphic Engine

An on-board ATI Mobility Radeon 9700 video processor with dedicated frame buffer gives excellent graphic performance. The advanced graphic chip also incorporates a hardware-based motion-compensation engine, which gives you smooth MPEG video playback. 3D graphics capability also adds realism to PC games.

### ■ Large LCD Display

The computer is equipped with a large 15.4-inch (wide aspect ratio) TFT high-resolution display panel for clear text and brilliant colors.

### ■ Expandability

The system offers upgradeable hard disk drive and 2 DDR SDRAM sockets for expansion, allowing the user to easily increase the storage and system capacities as the need arises.

### ■ Swappable Device Bay

The swappable device bay allows user to add an additional hard disk drive module for increased storage capacity.

■ **Built-in Multifunction Card Reader**

Some system comes with a multiple card reader, which supports SD, MS, MMC Card formats. This allows user to access a wide array of portable memory devices available today.

■ **Communication Features**

The system provides built-in Ethernet network adapter for local network and 56K modem.

■ **Firewire (IEEE1394 / 1394a) and USB2.0 ports**

In addition to a full array of built-in I/O ports, the computer offers IEEE1394 for ultra high-speed connection to high bandwidth digital video devices and USB2.0 ports to connect to any USB-based peripheral devices.

■ **Wireless LAN (Optional)**

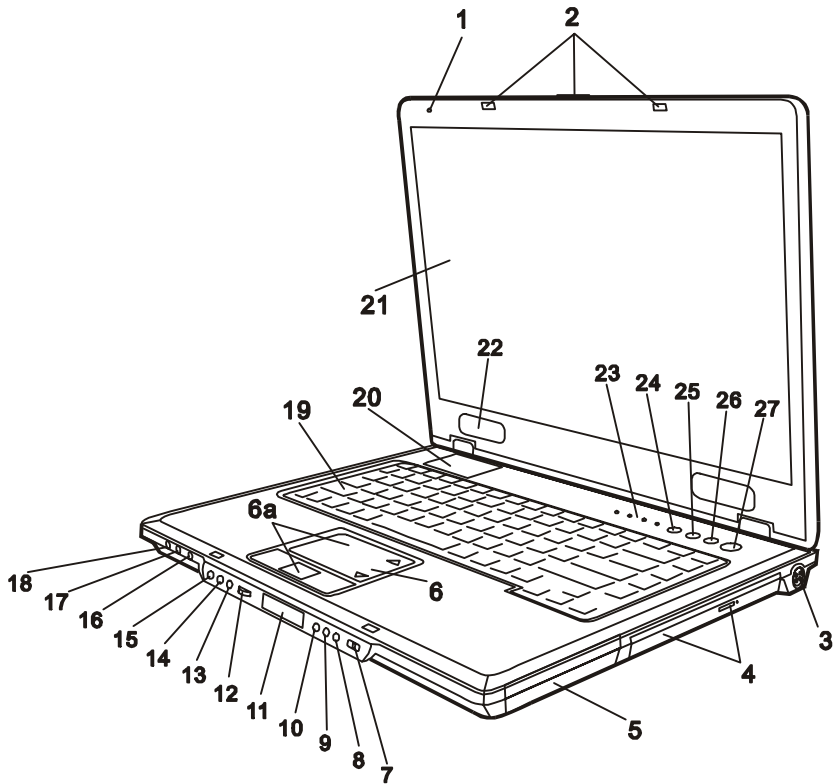
The optional internal Wireless LAN module allows your notebook to connect wirelessly to other 802.11-enabled systems, devices, or network.

■ **Built-in SuperDJ Audio Player (Optional)**

The system comes with a standalone audio player. You can playback audio tracks in the DC/DVD-ROM disc or in the hard disk drive.

## System At A Glance

### Front View



#### 1. Built-in Microphone

The built-in microphone records sound.

#### 2. LCD Latch

The LCD latches lock / unlock the LCD panel.

#### 3. Power Jack (DC-in)

The DC-out jack of the AC Adapter connects here and powers the computer.

#### 4. **Optical Drive and Disk Eject Button and Manual Eject Key Hole**

If your computer comes with the Combo drive, DVD-RW, DVD+RW, or DVD-Dual drive, you may save data onto a CD-R / CD-RW or DVD RW disc. Press the eject button to eject the disk tray. The manual eject keyhole allows you to manually eject a jammed disk.



**Note:** The optical drive resides in the Swappable Device Bay. Additionally, you may also purchase an optional hard drive module to be used in this bay.

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#### 5. **Battery Pack**

The battery pack is a built-in power source for the notebook.

#### 6. **Touch Pad with Page Up / Down Function**

The touch pad is a built-in pointing device with functions similar to a mouse. Use the Page Up or Down key to move one page up or down in Windows.

#### 6a. **Touch Pad Scroll Bar**

The scroll bar works similar to the scroll wheel in the mouse. Use the bar to maneuver long documents in Windows.

#### 7. **Audio Player Key Lock Out**

To prevent accidental pressing of the Audio keys, you may slide the button to the right position (locked position) to disable all Audio key functions. To reverse lock-out, slide the button toward the left.

## 8. Audio Player On/Off Button

Press the Audio Player Button to turn on the stand-alone Audio player without having to boot to Windows. Press again to turn off the Audio player.



**Note:** The SuperDJ Audio player is optional.

**Note:** When first turned on and playback, the SuperDJ player will choose to play songs in the CD/DVD-ROM disc first and then songs stored in HDD under directory C:\Audio.

**Note:** *How to Switch between CD/DVD drive and HDD:* Stop the player and press Fast-Forward and Fast-Backward keys at the same time.

**Note:** A utility program must be installed to make full use of the Audio player in standalone (non-Windows) mode. (D:\utility\SuperDJ)

## 9. Playback / Pause Key

Press the key once to start playback an audio track. Press again to temporarily stop an audio track during playback. Press again to resume playback.

## 10. Stop Key

Press the key once to stop an audio track during playback. Press stop twice to eject the CD/DVD-ROM disc.

## 11. Audio Player LCM Status Indicator

The monochrome LCM display shows the status of the Audio player.

## 12. Audio Volume Dial

Use the volume dial to control the loudness of the speakers.

### **13. Next / Fast-Forward Key**

Press the key once to go forward to the next audio track. Press and hold the key to perform a fast-forward search of the current track.

### **14. Previous / Fast-Backward Key**

Press the key once to go back to the previous audio track. Press and hold the key to perform a fast-backward search of the current track.

### **15. Repeat Key**

Press the key once to repeat a current song or repeat the entire album.

### **16. Microphone Jack**

The microphone jack (3.5-mm diameter) is where you connect a microphone.

### **17. Audio Line-in Jack**

The Audio Line-in jack (3.5-mm diameter) is where you connect an external audio input source such as a CD Player.

### **18. Stereo Headphone / SPDIF-out Jack**

The stereo headphone jack (3.5-mm diameter) is where you connect the headphones or external speakers.

Alternatively, you may connect the SPDIF output to an external DTS, AC3, or PCM sound processor / decoder in your home stereo system.

### **19. Keyboard**

The keyboard is used to enter data. It has an embedded numeric keypad and cursor control keys. (See Keyboard

Section for details.)

## **20. Ventilation Grill**

The fan grill is where air is exchanged to dissipate the internal heat. Do not block this airway completely.

## **21. LCD Display**

The panel is where the system content is displayed.

## **22. Built-in Stereo Speakers**

The built-in speakers output the sound in stereo.

## **23. LED Status Indicator**

The LED Status indicators reveal the locking/unlocking of certain key functions - numeric keypad enable/disable, cap lock, and scroll lock - and HDD and optical drive status. (See the LED Status Indicator Section for details.)

## **24. Email Quick Key**

The Email Quick Key launches the MS Outlook Express in Windows XP or 2000.

## **25. Internet Quick Key**

The Internet Quick Key launches the Internet Explore automatically in Windows XP or 2000.



**Note:** To enable the Internet Quick Key and Email Quick Key in Windows 98, you must install the special Quick Keys application contained in the factory driver utility CD. (d:\Utility\Qkeys\SETUP.EXE).

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## **26. Wireless On/Off Quick Key**

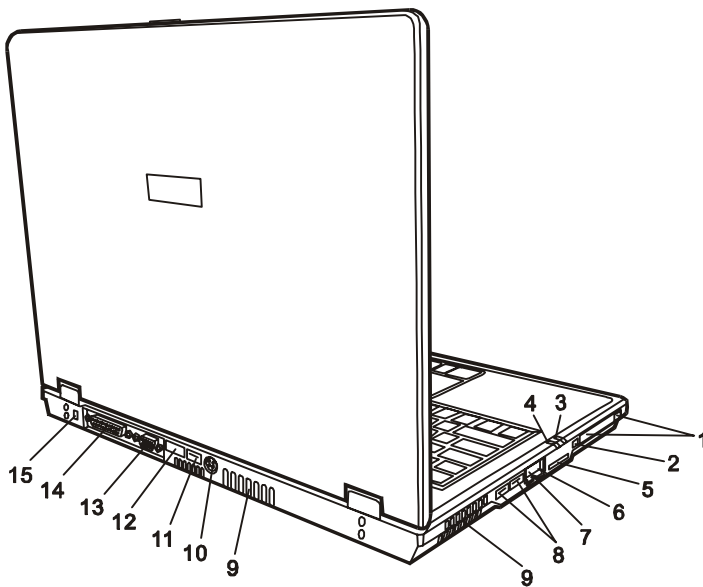


When Wireless icon (key top) appears green, the wireless LAN function is enabled. Press the quick key to disable this function.

## **27. Power / Suspend Button**

The power/suspend button turns the notebook on and off and it also acts as a system suspend key. Press momentarily to turn on the system. Press and hold for at least 3~4 seconds to turn off the system. How this key behaves can be defined in [Start > Settings > Control Panel > Power Options > Advanced] menu. Press the power / suspend button again to return from the suspend mode. (See Chapter 2 for more details on system suspend function.)

## Rear View



**Warning:** Do not place any heavy objects on the top of notebook. This may damage the display

### 1. PC Card Slot (Type II PCMCIA) and Card Eject Button

The slot is where PC Card (Type II PCMCIA) is inserted. Press the eject button to release the PC Card.

### 2. Firewire / IEEE1394 / 1394a Port

This is a high-speed serial data port. You may connect any Fire-wire-ready device to this port.

### 3. Suspend Status LED

Flashing green light indicates the notebook is in suspend mode.

(See the LED Status Indicator Section for details.)

**4. Battery Status LED**

The multi-color LED indicates the battery status of the notebook. (See the LED Status Indicator Section for details.)

**5. Multifunction Card Reader**

The built-in multifunction card reader allows you to access portable memory devices such as SD, MS, and MMC Cards.

**6. Ethernet / LAN Port**

The port connects to a network hub via the RJ-45 cable and also conforms to 10/100Base-TX transmission protocol.

**7. Modem Port**

This is where you plug the phone jack (RJ-11) for fax/modem functions.

**8. USB2.0 Port (x2)**

The Universal Serial Bus (USB2.0-compliant) port allows you to connect a wide variety of devices to your computer at a rate of up to 480 Mbps. This port conforms to the latest USB2.0 plug-and-play standards.

**9. Ventilation Grill**

The fan grill is where air is exchanged to dissipate the internal heat. Do not block this airway completely.

**10. TV (S-Video) Port**

The S-Video port permits you to redirect the screen output to a television set or any analog video playback device. This TV Port is Macrovision-compliant; when DVD movie is played, the output is scrambled to prevent analog recording.

**11. USB2.0 Port (x1)**

The Universal Serial Bus (USB2.0-compliant) port allows you to connect a wide variety of devices to your computer at a rate of up to 480 Mbps. This port conforms to the latest USB2.0 plug-and-play standards.

**12. Infrared Port**

Infrared Data Association (IrDA) compliant serial infrared port enables 4Mbps (FIR mode) wireless data transfer with IrDA 1.1-compatible external devices.

**13. External VGA Port**

The 15-pin VGA analog port is for connecting the external CRT monitor or projector.

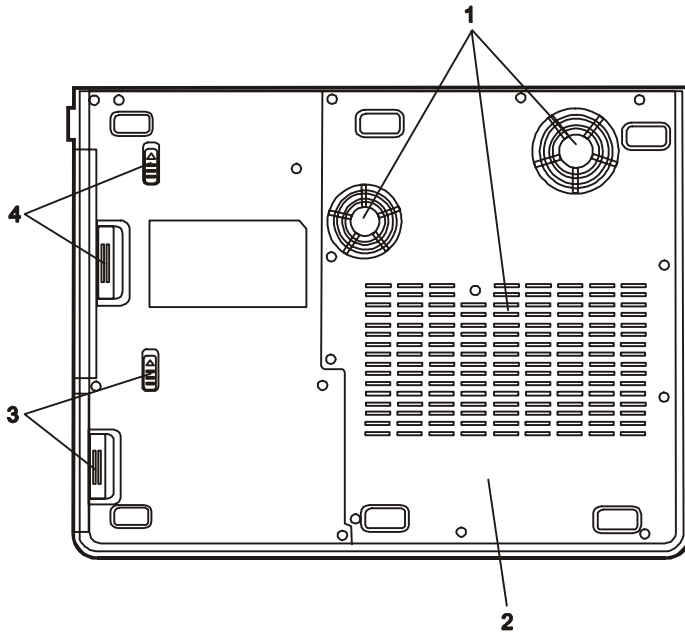
**14. Parallel Port**

The 25-pin parallel port connects to any parallel-port devices such as a printer.

**15. Kensington Lock Key Hole**

A Kensington-type security lock latches to this keyhole for anti-theft purpose.

## Bottom View



### 1. Ventilation Grill

The fan grill is where air is exchanged to dissipate the internal heat. Do not block this airway completely.

### 2. System Device Cover

The system's processor with cooler assembly, hard drive, wireless LAN card, and DDR memory module are located under the case cover. The hard disk drive and system memory can be upgraded to a larger capacity. (See Chapter 3 for instructions on a hard drive upgrade.)

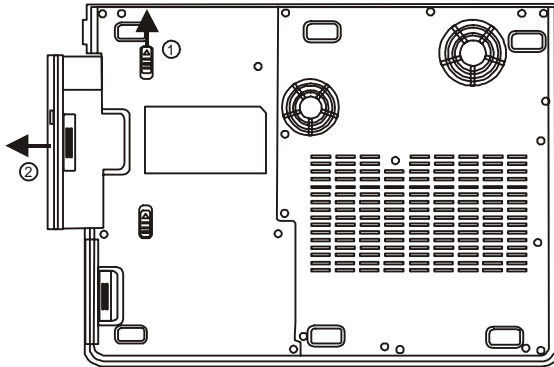
### 3. Battery Pack and Battery Latch

The battery pack is a built-in power source for the notebook.

Slide the battery latch to release the battery pack.

### 4. Swappable Device Bay and Latch

Push the latch and pull on the drive hard case to remove the swappable device.

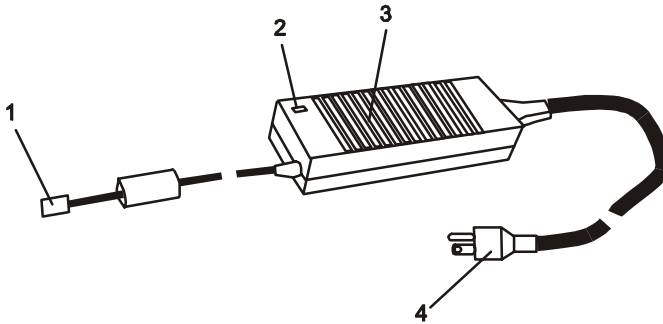


**Note:** The optical drive resides in the Swappable Device Bay. Additionally, you may also purchase an optional hard drive module to be used in this bay.



**Warning:** Do not block the Fan Grill outlet. Place the machine on hard surface only. The bottom case may get very hot.

## AC Adapter



### 1. DC-out Connector

The DC-out connector docks to the power jack (DC-in) on the computer.

### 2. LED Lamp

The LED lamp appears green when the unit is plugged into a valid AC source.

### 3. Adapter

The adapter converts alternating current into constant DC voltage for the computer.

### 4. AC Plug

The AC plug plugs to the AC wall outlet.







**Warning:** Make sure you are using a standard 3-prong AC wall socket with a ground pin. If not, you may feel a slight tingling sensation on any of the computer's metal parts such as the I/O ports. This is caused by leakage current when the AC adapter is not properly grounded (via the ground pin). However, the amount of leakage current is within the safety regulation and is not harmful to human body.

## LED Status Indicator




The LED Status Indicator displays the operating status of your notebook. When a certain function is enabled, an LED will light up. The following section describes its indication.

### System Status Indicator

LED Graphic Symbol	Indication
	Green light indicates the hard drive and/or optical drive is being accessed.
	Green light indicates the numeric keypad is activated.
	Green light indicates the cap-lock is activated.
	Green light indicates the scroll-lock is activated.










## Power Indicator

LED Graphic Symbol	Indication
	<p>Persistent green light indicates Power On.                      Light-off indicates the notebook is in Power Off mode.                      Blinking green light indicates the battery power is currently low.</p>
	<p>Blinking orange light indicates the battery is being charged.</p>
	<p>Persistent green light indicates the notebook is neither in Power Saving mode nor in suspend mode.                      Blinking green light indicates the notebook is in suspend mode.                      Light-off indicates the notebook is in Power Saving mode.</p>

## Keyboard Features

### Function Keys (Quick Keys)

Graphic Symbol	Action	System Control
	Fn + F1	Enters Suspend Mode.
	Fn + F3	Turns Battery Warning Beep on or off.
	Fn + F4	Changes Display Mode: LCD-only, CRT-only and LCD&CRT.
	Fn + F5	Turns Speaker Volume up.
	Fn + F6	Turns Speaker Volume down.
	Fn + F7	Increases Display Brightness.
	Fn + F8	Decreases Display Brightness.
	<b>Num Lock</b>	Enables the embedded keypad to work in numeric mode. The keys act like numeric keypads in a calculator. Use this mode when you need to do a lot of numeric data entry. An alternative would be to connect an external numeric keypad.
	<b>Scroll Lock</b>	Press the Scroll Lock key and then press ↑ or ↓ to move one line up or down.



**Note:** For various system controls, press the Fn (Function) key and the Fx key simultaneously.

## Windows Keys

Your keyboard also has two Windows keys:



### 1. Start Key

This key allows you to pull up the Windows Start Menu at the bottom of the taskbar.



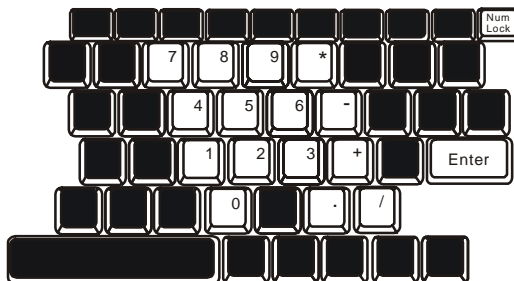
### 2. Application Menu Key

This key brings up the popup menu for the application, similar to a click of the right mouse button.

## Embedded Numeric Keypad

Press Num Lock to enable the embedded numeric keypad. The numbers are printed in upper right corner of a key, in a color different from the alphabets. This key pad is complete with arithmetic operators (+, -, \*, /).

Press Num Lock to revert to normal character keys.



## Touch Pad with Page Up / Page Down Function

The built-in touch pad, which is a PS/2-compatible pointing device, senses movement on its surface. As you move your fingertip on the surface of the pad, the cursor responds accordingly.

The following items teach you how to use the touch pad:

1. Move your finger across the touch pad to move the cursor.
2. Press buttons to select or execute functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touch pad twice produces is similar to clicking the left button of a mouse.
3. Press Page Up / Down button to move up or down a page.

Function	Left Button	Right Button	Page Up / Down Button	Equivalent Tapping Action
Execution	Click twice quickly			Tap twice (at the same speed as double-clicking the mouse button)
Selection	Click once			Tap once
Drag	Click and hold to drag the cursor			Tap twice quickly and on the second tap hold finger to the touch pad to drag the cursor
Access Context Menu		Click once		
Move One Page Up or Down			Click upper portion to move up a page Click lower portion to move down	

Tips on Using the Touch Pad:

1. The double-click speed is timed. If you double-click too slowly, your notebook responds as if you single-clicked twice.
2. Keep your fingers dry and clean when using the touch pad. Also keep the surface of touch pad clean and dry to prolong its life.
3. The touch pad is sensitive to finger movements. Hence, the lighter the touch, the better the response. Heavy touch does not produce better response.

## Graphic Subsystem

Your computer uses a high performance 15.4-inch (wide aspect ratio) active matrix TFT panel with high resolution and multi-million colors for comfortable viewing. The ATI Mobility Radeon 9700 video graphics accelerator, which is Microsoft DirectX 9 compatible, performs graphic rendering at a lighting-fast speed.

### Adjusting the Display Brightness

The notebook uses special key combinations, called hot keys, to control brightness.

Press Fn+F7 to increase the brightness.

Press Fn+F8 to decrease the brightness.



**Note:** To maximize your battery operating time, set the brightness to the lowest comfortable setting, so that the internal backlight uses less power.

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### Extending the Life of the TFT Display Device

Observe the following guidelines to maximize the life of the backlight in the display.

1. Set the brightness to the lowest comfortable setting (Fn+F8).
2. When working at your desk, connect your notebook to an external monitor and disable the internal display Fn+ F4.
3. Do not disable the suspend time-outs.
4. If you are using AC power and have no external monitor attached, change to suspend mode when not in use.

## Opening and Closing the Display Panel

To open the display, slide the LCD latch to the right and lift up the lid. Then tilt it to a comfortable viewing position.

To close the display cover, fold it down gently until the LCD latches click into place.



**Warning:** To avoid damaging the display, do not slam it when closing. Do not place any object on top of the computer when the display is closed

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## Audio Subsystem

Your computer's audio subsystem is Sound Blaster Pro-compatible.

### Adjusting the Volume Manually

To increase the volume, press Fn+ F5.

To decrease the volume, press Fn+F6.

### Adjusting the Audio Volume in Windows

1. Click the speaker symbol in the task tray in Windows.
2. Drag the volume control bar up or down to adjust the volume.
3. To temporarily silence the speaker without changing the volume setting, click Mute.

### Voice Recording

A built-in microphone allows you to record sound. You will need to use audio processing software to enable the built-in microphone. For example, you may use Microsoft Sound Recorder.

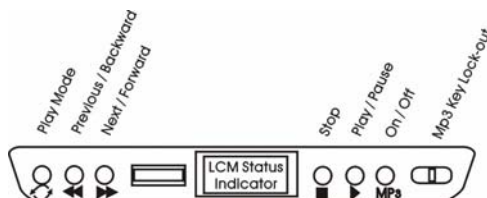
## SuperDJ Audio Player (Optional) Functions

The special audio player can work without booting to Windows. This is called the *Standalone Mode* and it saves battery power. The player will also work in Windows. This is called the *Windows Mode*.

### Standalone (non-Windows) Mode

- The SuperDJ Audio player can function without having to boot to Windows in standalone mode.
- You must install the special SuperDJ Audio player program from the factory CD-ROM (D:\Audio\Setup.exe) if you want to use the player in standalone (non-Windows) mode. Run the Audio Player program to manage and store the Audio tracks.
- The player searches Audio CD or Audio CD in the optical drive first. If no disc is present, it then searches the Audio tracks stored in C:\Audio.
- The Audio tracks must be kept in directory C:\Audio.
- Volume adjustment is via the VR dial located at the front edge of the computer.
- The track number and playback status are displayed in the LCM display module.
- In standalone mode, audio CD playback from the optical drive is supported.

### The front panel access keys and LCM status indicator





## Description of the SuperDJ / Audio function keys:

**Audio** button: Turns the standalone SuperDJ / AUDIO player on. Press and hold for 2 seconds to turn off.

**Repeat** button: Press to cycle through Mode 1, Mode 2, Mode 3, Mode 4, Mode 5, and back to Mode 1.

*Mode 1 (Repeat None mode):* The playback sequence is from the first track of the CD to the last track in the HDD.

*Mode 2 (Repeat All mode):* All tracks are repeated.

*Mode 3 (Repeat One mode):* The current track is repeated continuously until stopped.

*Mode 4 (Repeat None with Shuffle mode):* All tracks are playback randomly both in the HDD and CD/DVD-ROM one time.

*Mode 5 (Repeat All with Shuffle mode):* All tracks are playback in random orders continuously until Stop key is pressed.

**Play / Pause** button: Press once to start playback. Press again to pause a track during playback. Press again to resume playback of the current track.

**Stop** button: Stops the current track.

**Previous / Backward** button: During playback, pressing once returns to the beginning of the current track. Pressing twice in less than two-second interval returns to the previous track. Pressing and holding for more than one second rewinds the current track.

**Next / Forward** button: During playback, pressing once advances to the next track. Pressing and holding for more than one second fast-forwards the current track.

## Windows Mode

In Windows, you may launch the AUDIO application from the Programs set to playback AUDIO tracks. Note the front panel keys and LCM status indicator will only work with this AUDIO player application; it will not work with Windows Media Player. The player application can be found in the factory CD-ROM.

## Modem

Your computer comes with a 56K V.90 internal fax/modem and a phone jack (RJ-11), which is located on the left side of your computer.

Use a telephone cable to connect the computer to the telephone wall outlet.

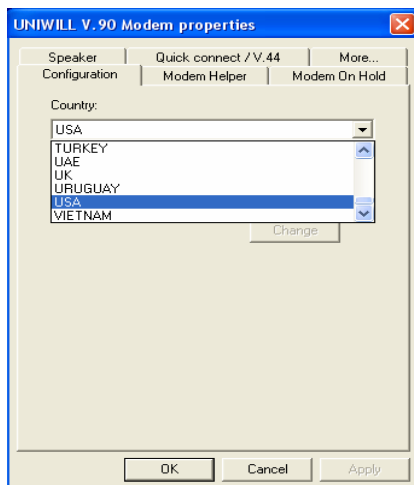
### Connecting the Modem

1. Plug one end of the phone line into the modem port located on the rear side of the computer. (For EMI compliance, you need to clip the included EMI CORE to the phone line.)
2. Plug the other end of the line into the analog phone wall outlet.

Depending on where your computer is used, you may need to change settings in the modem. Correct setting will allow you to maintain a stable connection in a country where its telecommunication system may be different to others.

### To change the modem setting, do the following:

1. Go to [Start > Settings > Control Panel] and double-click on Modem Settings icon. You will see a similar dialog box.



2. Click on the pull-down menu and select the country where it is applicable. Click on OK to exit.

## Ethernet

Your computer is equipped with a 10/100Base-TX Fast Ethernet network adapter. Connect the active LAN cable to the RJ-45 LAN port located on the left side of the computer. This allows you to access and transmit data in the local area network.

### Connecting to the Network

Use Unshielded Twisted Pair (UTP) Ethernet cable only.

1. Insert one end of the UTP cable into the network connector until the connector snaps securely into the receptacle.
2. Either connect the other end of the cable to an RJ-45 jack wall outlet or to an RJ-45 port on a UTP concentrator or hub in the network.

### Cabling Restriction for Networks

The following restrictions should be observed for 100BASE-TX networks:

- The maximum cable run length is 100 meters(m) (328 feet[ft]).
- For 100/1000-Mbps operations, use Category 5 wiring and connections.



**Note:** Consult Windows manual and / or Novell Netware user's guide for the software installation, configuration, operation of the network.

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