Notebook PC User Manual



Table of Contents

lable of Conten	ts	2		
Chapter 1:	3	_		
	's Manual			
	lanual			
,	ons			
Preparing your	Notebook PC	9		
Chapter 2:	Knowing the parts			
Top Side	-	12		
Bottom Side				
3				
	Getting Started			
Power System		24		
Using AC	Power	24		
Using Battery Power				
Battery Care				
Powering ON the Notebook PC				
The Power-On Self Test (POST)				
Checking	Battery Power	30		
Charging the Battery Pack				
Power Options				
Power Management Modes				
Sleep and Hibernate				
Thermal Power Control				
ASUS Gra	phix Boost Technology_			
Switchab	le Graphics Technology (on selected models)	36		
Special Keyboard Functions		37		
Colored F	lot Keys	37		
Microsoft Windows Keys				
Multimedia Control Keys (on selected models)				
Switches and St	atus Indicators	41		
Switches				

Status II	ndicators	43		
Chapter 4:	Using the Notebook PC			
Pointing Device				
Using th	ne Touchpad	47		
Touchp	ad Usage Illustrations	48		
-	for the Touchpad			
	atic Touchpad Disabling			
Storage Device	es	53		
	emory Card Reader			
	on Card			
•	Drive			
	sk Drive			
	y (RAM)			
	k Connection			
	s LAN Connection (on selected models)			
	vs Wireless Network Connection			
	th Wireless Connection(on selected models)			
Antenn	a Connections (on selected models)	71		
Appendix				
Optional Acce	essories	A-2		
Optiona	al Connections	A-2		
Operating Sys	tem and Software	A-3		
System	BIOS Settings	A-4		
Commo	on Problems and Solutions	A-7		
Recovering Yo	our Notebook PC	A-13		
Using R	ecovery Partition	A-13		
Using R	ecovery DVD (on selected models)	A-14		
DVD-RC	DM Drive Information	A-16		
Internal	Modem Compliancy	A-18		
Declarations a	and Safety Statements	A-22		
Copyright Information				
Limitation of Liability				
	upport			

Introducing the Notebook PC

About This User's Manual

You are reading the Notebook PC User's Manual. This User's Manual provides information regarding the various components in the Notebook PC and how to use them. The following are major sections of this User's Manual:

1. Introducing the Notebook PC Introduces you to the Notebook PC and this User's Manual.

2. Knowing the Parts
Gives you information on the Notebook PC's components.

Getting Started Gives you information on getting started with the Notebook PC.

4. Using the Notebook PCGives you information on using the Notebook PC's components.

5. Appendix Introduces you to optional accessories and gives additional information.



The actual bundled operating system and applications differ by models and territories. There may be differences between your Notebook PC and the pictures shown in this manual. Please accept your Notebook PC as being correct.

Notes for This Manual

A few notes and warnings are used throughout this guide, allowing you to complete certain tasks safely and effectively. These notes have different degrees of importance as follows:



WARNING! Important information that must be followed for safe operation.



IMPORTANT! Vital information that must be followed to prevent damage to data, components, or persons.



TIP: Tips for completing tasks.



NOTE: Information for special situations.

Safety Precautions

The following safety precautions will increase the life of the Notebook PC. Follow all precautions and instructions. Except as described in this manual, refer all servicing to qualified personnel.



Disconnect the AC power and remove the battery pack(s) before cleaning. Wipe the Notebook PC using a clean cellulose sponge or chamois cloth dampened with a solution of nonabrasive detergent and a few drops of warm water and remove any extra moisture with a dry cloth.



DO NOT place on uneven or unstable work surfaces. Seek servicing if the casing has been damaged.



DO NOT place or drop objects on top and do not shove any foreign objects into the Notebook PC.



DO NOT expose to dirty or dusty environments. DO NOT operate during a gas leak.



DO NOT expose to strong magnetic or electrical fields.



DO NOT press or touch the display panel. Do not place together with small items that may scratch or enter the Notebook PC.



DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the modem during electrical storms.



DO NOT leave the Notebook PC on your lap or any part of the body to prevent discomfort or injury from heat exposure.



Battery safety warning: DO NOT throw the battery in fire. DO NOT short circuit the contacts. DO NOT disassemble the battery.



SAFE TEMP: This Notebook PC should only be used in environments with ambient temperatures between 10°C (50°F) and 35°C (95°F).



INPUT RATING: Refer to the rating label on the bottom of the Notebook PC and be sure that your power adapter complies with the rating.



DO NOT carry or cover a Notebook PC that is powered ON with any materials that will reduce air circulation such as a carrying bag.



DO NOT use strong solvents such as thinners, benzene, or other chemicals on or near the surface.



DO NOT use damaged power cords, accessories, or other peripherals.



of battery may cause explosion and damage the Notebook PC.



DO NOT throw the Notebook PC in municipal waste. This product has been designed to enable proper reuse of parts and recycling. The symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment and mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

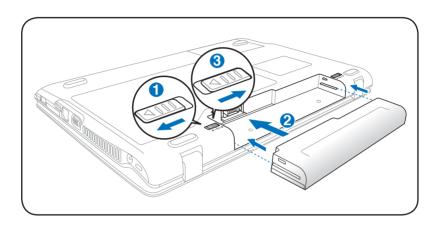


DO NOT throw the battery in municipal waste. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

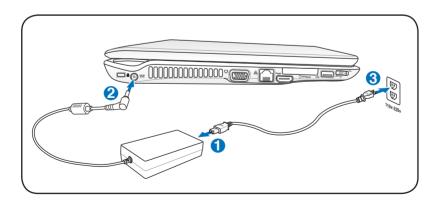
Preparing your Notebook PC

These are quick instructions for using your Notebook PC.

Installing the Battery Pack

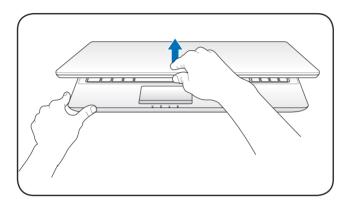


Connecting the Power Adapter



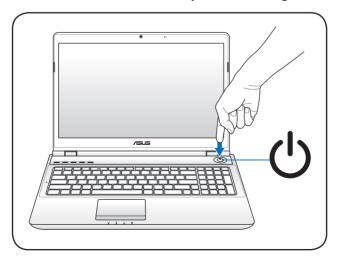
Opening the LCD display panel

- 1. Carefully lift up the display panel with your thumb.
- 2. Slowly tilt the display panel forward or backward to a comfortable viewing angle.



Turning on the Power

- 1. Push and release the power button located beneath the LCD display panel.
- 2. Use [Fn]+[F5] or [Fn]+[F6] to adjust the LCD brightness.

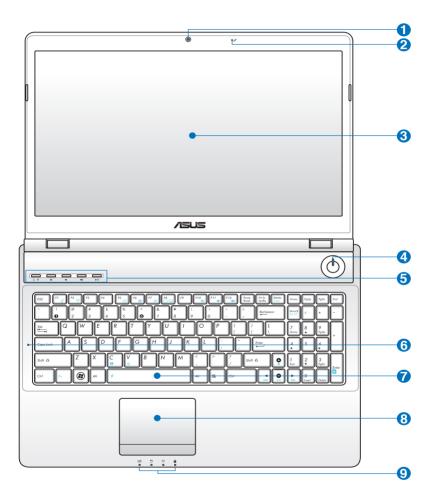


Knowing the parts

Top Side



The keyboard differs for each territory.



The built-in camera allows picture taking or video recording. Can be used with video conferencing and other interactive applications.

2 Microphone (Built-in)

The built-in mono microphone can be used for video conferencing, voice narrations, or simple audio recordings.

Oisplay Panel

The display panel functions the same as a desktop monitor. The Notebook PC uses an active matrix TFT LCD, which provides excellent viewing like that of desktop monitors. Unlike desktop monitors, the LCD panel does not produce any radiation or flickering, so it is easier on the eyes. Use a soft cloth without chemical liquids (use plain water if necessary) to clean the display panel.

(I) Power Switch

The power switch allows powering ON and OFF the Notebook PC and recovering from STD. Use the switch once to turn ON and once to turn OFF the Notebook PC. The power switch only works when the display panel is opened.

Instant Keys

Instant keys allow you to launch frequently used applications with one push of a button. Details are described in section 3.

6 A Status Indicators (side)

Status indicators represent various hardware/software conditions. See indicator details in Chapter 3.

The keyboard provides full-sized keys with comfortable travel (depth at which the keys can be depressed) and palm rest for both hands. Two Windows function keys are provided to help ease navigation in the Windows operating system.

The touchpad with its buttons is a pointing device that provides the same functions as a desktop mouse. A software-controlled scrolling function is available after setting up the included touchpad utility to allow easy Windows or web navigation.

Status Indicators (front)

Status indicators represent various hardware/software conditions. See indicator details in Chapter 3.

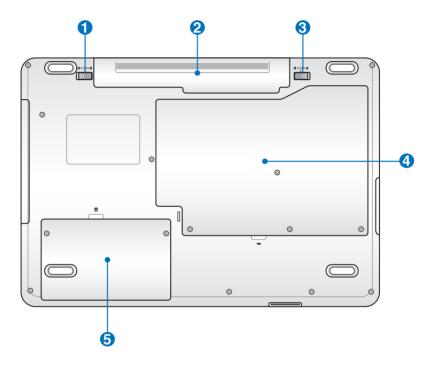
Bottom Side



The bottom side may vary in appearance depending on model.



The battery pack size varies depending on model.





WARNING! The bottom of the Notebook PC can get very hot. Be careful when handling the Notebook PC while it is in operation or recently been in operation. High temperatures are normal during charging or operation. Do not use on soft surfaces such as beds or sofas which may block the vents. DO NOT PUT THE NOTEBOOK PC ON YOUR LAP OR OTHER PARTS OF THE BODY TO AVOID INJURY FROM THE HEAT.

1 Battery Lock - Spring

The spring battery lock is used to keep the battery pack secured. When the battery pack is inserted, it will automatically lock. To remove the battery pack, this spring lock must be held in the unlocked position.

Battery Pack

The battery pack is automatically charged when the Notebook PC is connected to an AC power source and maintains power to the Notebook PC when AC power is not connected. This allows use when moving temporarily between locations. Battery time varies by usage and by the specifications for this Notebook PC. The battery pack cannot be disassembled and must be purchased as a single unit.

3 Battery Lock - Manual

The manual battery lock is used to keep the battery pack secured. Move the manual lock to the unlocked position to insert or remove the battery pack. Move the manual lock to the locked position after inserting the battery pack.

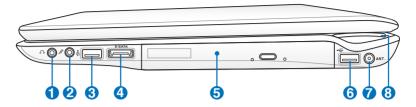
Memory (RAM) Compartment

The memory compartment provides expansion capabilities for additional memory. Additional memory will increase application performance by decreasing hard disk access. The BIOS automatically detects the amount of memory in the system and configures accordingly. There is no hardware or software (including BIOS) setup required after the memory is installed. Visit an authorized service center or retailer for information on memory upgrades for your Notebook PC. Only purchase expansion modules from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability.

5 Hard Disk Drive Compartments

The hard disk drive is secured in a compartment. Visit an authorized service center or retailer for information on hard disk drive upgrades for your Notebook PC. Only purchase hard disk drives from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability.

Right Side



1 Neadphone Output Jack

The stereo headphone jack (1/8 inch) is used to connect the Notebook PC's audio out signal to amplified speakers or headphones. Using this jack automatically disables the built-in speakers.

Microphone Input Jack

The mono microphone jack (1/8 inch) can be used to connect an external microphone or output signals from audio devices. Using this jack automatically disables the built-in microphone. Use this feature for video conferencing, voice narrations, or simple audio recordings.

3 ← USB Port (2.0)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbits/sec (USB 1.1) and 480Mbits/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. USB supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer.

4 E-SATA Port

External SATA or eSATA allows external connection of Serial-ATA devices originally designed for use inside the computer. It is up to six times faster than existing USB 2.0, & 1394 for external storage solutions and is also hot pluggable using shielded cables and connectors up to two meters.

6 Optical Drive

The Notebook PC comes in various models with different optical drives. The Notebook PC's optical drive may support compact discs (CD) and/or digital video discs (DVD) and may have recordable (R) or re-writable (RW) capabilities. See the marketing specifications for details on each model.

- **6 ←** USB Port (2.0)
- Marie and the second of the

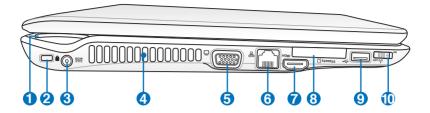
The antenna input is for TV (on selected models) signal and allows for use with the provided digital TV with the antenna or input from subscription television services. The provided antenna can receive digital TV. Cable service connection can receive digital TV, analog TV, depending on paid services.



Use the provided adapter for use with coaxial connectors.

The power indicator lights when the Notebook PC is turned ON and blinks slowly when the Notebook PC is in the Suspend-to-RAM (Sleep) mode. This indicator is OFF when the Notebook PC is turned OFF or in the Suspend-to-Disk (Hibernation) mode. The indicator light color changes with the GPU mode you selected (on selected models).

Left Side





2 Kensington® Lock Ports

The Kensington® lock ports allow the Notebook PC to be secured using Kensington® compatible Notebook PC security products. These security products usually include a metal cable and lock that prevent the Notebook PC to be removed from a fixed object. Some may also include a motion detector to sound an alarm when moved.

3 Power (DC) Input

The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the Notebook PC and charges the internal battery pack. To prevent damage to the Notebook PC and battery pack, always use the supplied power adapter.



The adapter may become warm to hot when in use. Be sure not to cover the adapter and keep it away from your body.

4 Air Vents

The air vents allow cool air to enter and warm air to exit the Notebook PC.



Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

5 Display (Monitor) Output

The 15-pin D-sub monitor port supports a standard VGA-compatible device such as a monitor or projector to allow viewing on a larger external display.

6 品 LAN Port

The RJ-45 LAN port with eight pins is larger than the RJ-11 modem port and supports a standard Ethernet cable for connection to a local network. The built-in connector allows convenient use without additional adapters.

HDMI HDMI Port

HDMI (High-Definition Multimedia Interface) is an uncompressed all-digital audio/video interface between any audio/video source, such as a set-top box, DVD player, and A/V receiver and an audio and/or video monitor, such as a digital television (DTV). Supports standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable. It transmits all ATSC HDTV standards and supports 8-channel digital audio, with bandwidth to spare to accommodate future enhancements or requirements.

8 ExpressCard Slot

One 26pin Express card slot is available to support one ExpressCard/34mm expansion card. This new interface is faster by using a serial bus supporting USB 2.0 and PCI Express instead of the slower parallel bus used in the PC card slot. (Not compatible with previous PCMCIA cards.)

● USB Port (3.0) (on selected models)

The USB (Universal Serial Bus) port is compatible with USB 3.0, 2.0, or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 4.8Gbits/sec (USB 3.0), 480Mbits/sec (USB 2.0), and 12Mbits/sec (USB 1.1). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. USB supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer.

(†) Wireless Switch

Enables or disables the built-in wireless LAN and Bluetooth (selected models). When enabled, the wireless status indicator will light. Windows software settings are necessary before use.

Front Side



• Flash Memory Slot

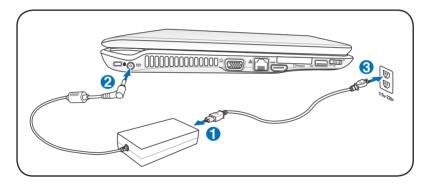
Normally an external memory card reader must be purchased separately in order to use memory cards from devices such as digital cameras, MP3 players, mobile phones, and PDAs. This Notebook PC has a built-in high-speed memory card reader that can conveniently read from and write to many flash memory cards as mentioned later in this manual.

Getting Started

Power System

Using AC Power

The Notebook PC power is comprised of two parts, the power adapter and the battery power system. The power adapter converts AC power from a wall outlet to the DC power required by the Notebook PC. Your Notebook PC comes with a universal AC-DC adapter. That means that you may connect the power cord to any 100V-120V as well as 220V-240V outlets without setting switches or using power converters. Different countries may require that an adapter be used to connect the provided US-standard AC power cord to a different standard. Most hotels will provide universal outlets to support different power cords as well as voltages. It is always best to ask an experienced traveler about AC outlet voltages when bringing power adapters to another country.





You can buy travel kits for the Notebook PC that includes power and modem adapters for almost every country.



WARNING! DO NOT connect the AC power cord to an AC outlet prior to connecting the DC plug to the Notebook PC. Doing so may damage the AC-DC adapter.



IMPORTANT! Damage may occur if you use a different adapter to power the Notebook PC or use the Notebook PC's adapter to power other electrical devices. If there is smoke, burning scent, or extreme heat coming from the AC-DC adapter, seek servicing. Seek servicing if you suspect a faulty AC-DC adapter. You may damage both your battery pack(s) and the Notebook PC with a faulty AC-DC adapter.



This Notebook PC may come with either a two or three-prong plug depending on territory. If a three-prong plug is provided, you must use a grounded AC outlet or use a properly grounded adapter to ensure safe operation of the Notebook PC.



WARNING! THE POWER ADAPTER MAY BECOME WARM TO HOT WHEN IN USE. BE SURE NOT TO COVER THE ADAPTER AND KEEP IT AWAY FROM YOUR BODY.



Unplug the power adapter or switch off the AC outlet to minimize the power consumption when the Notebook PC is not in use.

Using Battery Power

The Notebook PC is designed to work with a removable battery pack. The battery pack consists of a set of battery cells housed together. A fully charged pack will provide several hours of battery life, which can be further extended by using power management features through the BIOS setup. Additional battery packs are optional and can be purchased separately through a Notebook PC retailer.

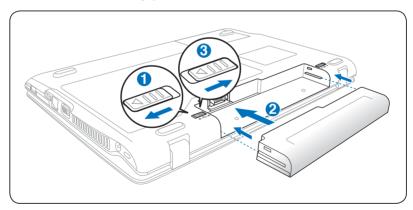
Installing and Removing the Battery Pack

Your Notebook PC may or may not have its battery pack installed. If your Notebook PC does not have its battery pack installed, use the following procedures to install the battery pack.

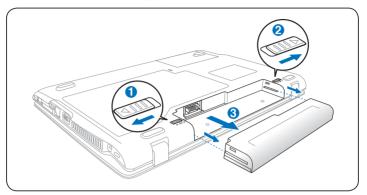


IMPORTANT! Never attempt to remove the battery pack while the Notebook PC is turned ON, as this may result in the loss of working data.

To install the battery pack:



To remove the battery pack:





IMPORTANT! Only use battery packs and power adapters supplied with this Notebook PC or specifically approved by the manufacturer or retailer for use with this model or else damage may occur to the Notebook PC.

Battery Care

The Notebook PC's battery pack, like all rechargeable batteries, has a limit on the number times it can be recharged. The battery pack's useful life will depend on your environment temperature, humidity, and how your Notebook PC is used. It is ideal that the battery be used in a temperature range between 10°C and 35°C (50°F and 95°F). You must also take into account that the Notebook PC's internal temperature is higher than the outside temperature. Any temperatures above or below this range will shorten the life of the battery. But in any case, the battery pack's usage time will eventually decrease and a new battery pack must be purchased from an authorized dealer for this Notebook PC. Because batteries also have a shelf life, it is not recommended to buy extras for storing.



WARNING! For safety reasons, DO NOT throw the battery in fire, DO NOT short circuit the contacts, and DO NOT disassemble the battery. If there is any abnormal operation or damage to the battery pack caused by impact, turn OFF the Notebook PC and contact an authorized service center.

Powering ON the Notebook PC

The Notebook PC's power-ON message appears on the screen when you turn it ON. If necessary, you may adjust the brightness by using the hot keys. If you need to run the BIOS Setup to set or modify the system configuration, press [F2] upon bootup to enter the BIOS Setup. If you press [Tab] during the splash screen, standard boot information such as the BIOS version can be seen. Press [ESC] and you will be presented with a boot menu with selections to boot from your available drives.



Before bootup, the display panel flashes when the power is turned ON. This is part of the Notebook PC's test routine and is not a problem with the display.



IMPORTANT! To protect the hard disk drive, always wait at least 5 seconds after turning OFF your Notebook PC before turning it back ON.



WARNING! DO NOT carry or cover a Notebook PC that is powered ON with any materials that will reduce air circulation such as a carrying bag.

The Power-On Self Test (POST)

When you turn ON the Notebook PC, it will first run through a series of software-controlled diagnostic tests called the Power-On Self Test (POST). The software that controls the POST is installed as a permanent part of the Notebook PC's architecture. The POST includes a record of the Notebook PC's hardware configuration, which is used to make a diagnostic check of the system. This record is created by using the BIOS Setup program. If the POST discovers a difference between the record and the existing hardware, it will display a message on the screen prompting you to correct the conflict by running BIOS Setup. In most cases the record should be correct when you receive the Notebook PC. When the test is finished, you may get a message reporting "No operating system found" if the hard disk was not preloaded with an operating system. This indicates that the hard disk is correctly detected and ready for the installation of a new operating system.

Self Monitoring and Reporting Technology

The S.M.A.R.T. (Self Monitoring and Reporting Technology) checks the hard disk drive during POST and gives a warning message if the hard disk drive requires servicing. If any critical hard disk drive warning is given during bootup, backup your data immediately and run Windows disk checking program. To run Window's disk checking program: click **Start** > select **Computer** > right-click a hard disk drive icon > choose **Properties** > click the **Tools** tab > click **Check Now** >



click **Start**. You can also select "Scan ... sectors" for more effective scan and repair but the process will run slower.



IMPORTANT! If warnings are still given during bootup after running a software disk checking utility, you should take your Notebook PC in for servicing. Continued use may result in data loss.

Checking Battery Power

The battery system implements the Smart Battery standard under the Windows environment, which allows the battery to accurately report the amount of charge left in the battery. A fully-charged battery pack provides the Notebook PC a few hours of working power. But the actual figure varies depending on how you use the power saving features, your general work habits, the CPU, system memory size, and the size of the display panel.



Screen captures shown here are examples only and may not reflect what you see in your system.



You will be warned when battery power is low. If you continue to ignore the low battery warnings, the Notebook PC eventually enters suspend mode (Windows default uses STR).



Left-click the battery icon



Pointer over the battery icon with power adapter.



WARNING! Suspend-to-RAM (STR) does not last long when the battery power is depleted. STR is not the same as power OFF. STR requires a small amount of power and will fail and lose data if no power is available due to complete battery depletion or no power supply (e.g. removing both the power adapter and battery pack).

Charging the Battery Pack

Before you use your Notebook PC on the road, you will have to charge the battery pack. The battery pack begins to charge as soon as the Notebook PC is connected to external power using the power adapter. Fully charge the battery pack before using it for the first time. A new battery pack must completely charge before the Notebook PC is disconnected from external power. It takes a few hours to fully charge the battery when the Notebook PC is turned OFF and may take twice the time when the Notebook PC is turned ON. The battery status indicator on the Notebook PC turns OFF when the battery pack is charged.



The battery starts charging when the charge remaining in the battery drops below 95%. This prevents the battery from charging frequently. Minimizing the recharge cycles helps prolong battery life.



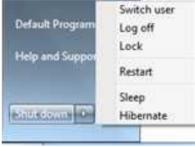
The battery stops charging if the temperature is too high or the battery voltage is too high.



WARNING! DO NOT leave the battery pack discharged. The battery pack will discharge over time. If not using a battery pack, it must continued to be charged every three months to extend recovery capacity or else it may fail to charge in the future.

Power Options

The power switch turns ON and OFF the Notebook PC or putting the Notebook PC into sleep or hibernation modes. Actual behavior of the power switch can be customized in Windows Control Panel "Power Options." For other options, such as "Switch



User, Restart, Sleep, or Shut Down," click the arrowhead next to the lock icon.

Restarting or Rebooting

After making changes to your operating system, you may be prompted to restart the system. Some installation processes will provide a dialog box to allow restart. To restart the system manually, choose **Restart**.

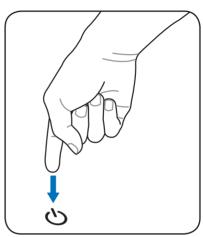


IMPORTANT! To protect the hard drive, wait at least 5 seconds after turning OFF your Notebook PC before turning it back ON.

Emergency Shutdown

In case your operating system cannot properly turn OFF or restart, there is an additional way to shutdown your Notebook PC:

• Hold the power button O over 4 seconds.





IMPORTANT! DO NOT use emergency shutdown while data is being written; doing so can result in loss or destruction of your data.

Power Management Modes

The Notebook PC has a number of automatic or adjustable power saving features that you can use to maximize battery life and lower Total Cost of Ownership (TCO). You can control some of these features through the Power menu in the BIOS Setup. ACPI power management settings are made through the operating system. The power management features are designed to save as much electricity as possible by putting components into a low power consumption mode as often as possible but also allow full operation on demand.

Sleep and Hibernate

Power management settings can be found in the **Windows** > **Control Panel** > **Hardware** and **Sound** > **Power Options**. In **Power Options**, you can define "Sleep/Hibernate" or "Shut Down" for closing the display panel or pressing the power button.



"Sleep" and "Hibernate" saves power when your Notebook PC is not in use by turning OFF certain components. When you resume your work, your last status (such as a document scrolled down half way or email typed half way) will reappear as if you never left. "Shut Down" will close all applications and ask if you want to save your work if any are not saved.

Sleep is the same as Suspend-to-RAM (STR). This function stores your current data and status in RAM while many components are turned OFF. Because RAM is volatile, it requires power to keep (refresh) the data. Click the **Windows** button and the arrowhead next to the lock icon



to see this option. You can also use the keyboard shortcut [**Fn F1**] to activate this mode. Recover by pressing any keyboard key except [Fn]. (NOTE: The power indicator will blink in this mode.)

Hibernate is the same as Suspend-to-Disk (STD) and stores your current data and status on the hard disk drive. By doing this, RAM does not have to be periodically refreshed and power consumption is greatly reduced but not completely eliminated because certain wake-up components like LAN needs to remain powered. "Hibernate" saves more power compared to "Sleep". Click the **Start** button and the arrowhead next to the lock icon to see this option. Recover by pressing the power button. (NOTE: The power indicator will be OFF in this mode.)

Thermal Power Control

There are three power control methods for controlling the Notebook PC's thermal state. These power control cannot be configured by the user and should be known in case the Notebook PC should enter these states. The following temperatures represent the chassis temperature (not CPU).

- The fan turns ON for active cooling when the temperature reaches the safe upper limit.
- The CPU decreases speed for passive cooling when the temperature exceeds the safe upper limit.
- The system shut down for critical cooling when temperature exceeds the maximum safe upper limit.

ASUS Graphix Boost Technology_Switchable Graphics Technology (on selected models)

ASUS Graphix Boost Technology allows you to select from the integrated and the discrete graphics processing unit (GPU) mode to optimize the system for graphics processing or lower power consumption.

To select a GPU mode

 Right-click the ATI icon on the Windows notification area, and then select Configure Switchable Graphics.



- Select from the
 High-performance GPU
 and the Power-saving GPU.
- You will be prompted to confirm your selection. Click OK to switch to the GPU you select.
 - It is normal that your display turns blank for few seconds during the switch.
- When switched to the selected GPU, the Switchable Graphics Status



updates to reflect the GPU being used. Click **OK** to finish.



The HDMI port only functions in ${\bf High\text{-}performance}$ GPU mode.

Special Keyboard Functions

Colored Hot Keys

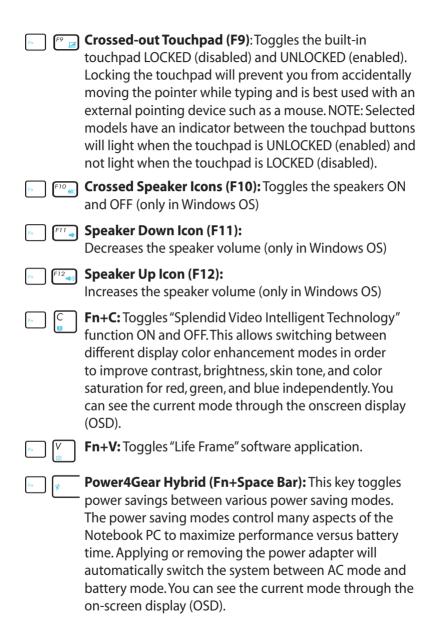
The following defines the colored hot keys on the Notebook PC's keyboard. The colored commands can only be accessed by first pressing and holding the function key while pressing a key with a colored command.





The Hot Key locations on the function keys may vary depending on model but the functions should remain the same. Follow the icons instead of the function keys.

Fi Zi	"Z ² " Icon (F1): Places the Notebook PC in suspend mode (either Save-to-RAM or Save-to-Disk depending on sleep button setting in power management setup).
F2 (4)	Radio Tower (F2): Wireless Models Only: Toggles the internal wireless LAN or Bluetooth (on selected models) ON or OFF with an on-screen-display. When enabled, the corresponding wireless indicator will light. Windows software settings are necessary to use the wireless LAN or Bluetooth.
F5 **	Sun Down Icon (F5): Decreases the display brightness
F6 (**)	Sun Up Icon (F6): Increases the display brightness
F7 🔀	LCD Icon (F7): Toggles the display panel ON and OFF. (On certain models; stretches the screen area to fill the entire display when using low resolution modes.)
Fn F8	LCD/Monitor Icons (F8): Toggles between the Notebook PC's LCD display and an external monitor in this series: LCD Only -> CRT Only (External Monitor) -> LCD + CRT Clone -> LCD + CRT Extend. (This function does not work in 256 Colors, select High Color in Display Property Settings.) NOTE: Must connect an external monitor "before" booting up.





Fn+Enter (extended keyboard): Toggles Windows "Calculator" application.

Microsoft Windows Keys



There are two special Windows keys on the keyboard as described below.

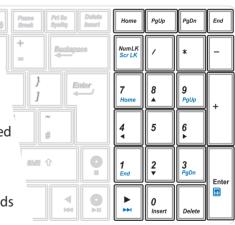
The key with the Windows Logo activates the Start menu located at the bottom left of the Windows desktop.



The other key, that looks like a Windows menu with a small pointer, activates the properties menu and is equivalent to pressing the right mouse button on a Windows object.

Extended Keyboard (on selected models)

An extended keyboard is available on selected models. The extended keyboard has a dedicated numeric keypad for easy number entry. Use [Num Lk / Scr Lk] to toggle between using the extended keypad as numbers or as pointer directions. The pointer direction keys are for navigation between fields or cells such as those in a spreadsheet or table.



Multimedia Control Keys (on selected models)

The multimedia control keys allows for convenient controlling of the multimedia application. The following defines the meaning of each multimedia control key on the Notebook PC.



Some control key functions may defer depending on Notebook PC model.





Use the [Fn] key in combination with the arrow keys for CD control functions



CD Play/Pause

During CD stop, begins CD play. During CD play, pauses CD play.



CD Stop

During CD play: Stops CD play.



CD Skip to Previous Track (Rewind)

During CD play, skips to the previous audio track/movie chapter.

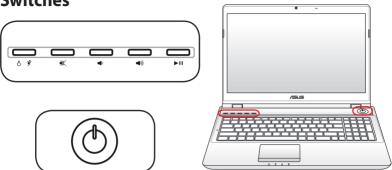


CD Skip to Next Track (Fast Forward)

During CD play, skips to the next audio track/movie chapter.

Switches and Status Indicators

Switches





Power4Gear Key (on selected models)

Pressing this key will launch Express Gate. Refer to the Express Gate User's Manual for details.

Under the Windows OS, this key functions as the Power4Gear Hybrid key. The key toggles power savings between various power saving modes. The power saving modes control many aspects of the Notebook PC to maximize performance versus battery time. Applying or removing the power adapter will

automatically switch the system between AC mode and battery mode. The selected mode is shown on the display.



Graphix Boost Key (on selected models)

Under the Windows OS, this key acts as the Graphix Boost key.

The Graphix Boost key toggles between the integrated graphics mode and the discrete graphics mode.







™Mute Key

Press this key to turn off the audio volume.

■ Volume Down Key

Press this key to decrease the audio volume.

■ Volume Up Key

Press this key to increase the audio volume.

▶II CD Play/Pause

During CD stop, begins CD play.

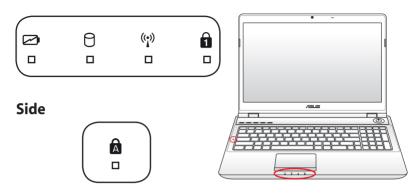
During CD play, pauses CD play.

(I) Power Switch

The power switch turns ON and OFF the Notebook PC or putting the Notebook PC into sleep or hibernation modes. Actual behavior of the power switch can be customized in Windows Control Panel "Power Options."

Status Indicators

Front



Battery Charge Indicator (dual-color)

The dual-color battery charge indicator shows the status of the battery's power as follows:

Green ON: Battery power is between 95% and 100% (with AC power).

Orange ON: Battery power is less than 95% (with AC power).

Orange Blinking: Battery power is less than 10% (without AC power).

Off: Battery power is between 10% and 100% (without AC power).

Drive Activity Indicator

Indicates that the Notebook PC is accessing one or more storage device(s) such as the hard disk. The light flashes proportional to the access time.

((*)) Bluetooth / Wireless Indicator

This is only applicable on models with internal Bluetooth (BT) and built-in wireless LAN. This indicator will light to show that the Notebook PC's built-in Bluetooth (BT) function is activated. When the built-in wireless LAN is enabled, this indicator will also light. (Windows software settings are necessary.)

Number Lock Indicator

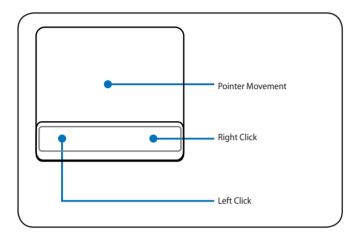
Indicates that number lock [Num Lk] is activated when lighted. Number lock allows some of the keyboard letters to act as numbers for easier numeric data input.

Capital Lock Indicator

Indicates that capital lock [Caps Lock] is activated when lighted. Capital lock allows some of the keyboard letters to type using capitalized letters (e.g. A, B, C). When the capital lock light is OFF, the typed letters will be in the lower case form (e.g. a,b,c).

Pointing Device

The Notebook PC's integrated touchpad pointing device is fully compatible with all two/three-button and scrolling knob PS/2 mice. The touchpad is pressure sensitive and contains no moving parts; therefore, mechanical failures can be avoided. A device driver is still required for working with some application software.





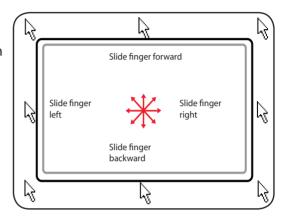
IMPORTANT! DO NOT use any objects in place of your finger to operate the touchpad or else damage may occur to the touchpad's surface.

Using the Touchpad

The touchpad allows you to use your fingers to move the pointer around or select onscreen items instead of using a standard mouse. To use the touchpad, lightly press or tap your finger on the touchpad.

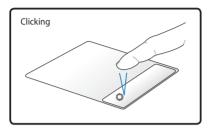
Moving The Pointer

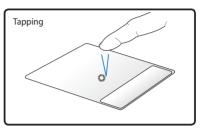
Place your finger in the center of the touchpad and slide in a direction to move the pointer.



Touchpad Usage Illustrations

Clicking/Tapping - With the pointer over an item, press the left button or use your fingertip to touch the touchpad lightly, keeping your finger on the touchpad until the item is selected. The selected item will change color. The following two examples produce the same results.

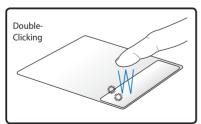




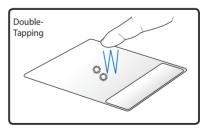
Press the left pointer button and release.

Lightly but rapidly strike the touchpad.

Double-clicking/Double-tapping - These actions allows you to launch your selected program. Move your finger over the program that you want to launch, press the left button or tap the pad twice in rapid succession, and the system launches your selected program. If the interval between the clicks or taps is too long, the operation will not be executed. You can set the double-click speed using the Windows Control Panel "Mouse." The following two examples produce the same results.

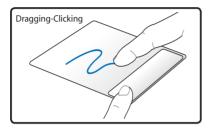


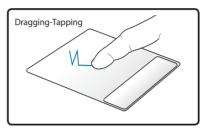




Lightly but rapidly strike the touchpad twice.

Dragging - Dragging refers to moving an item to another location. Move your finger over an item, while simultaneously pressing the left button, move the item to your desired location, then release the left button. You can also double-tap and hold the item while dragging it with your finger. The following illustrations produce the same results.

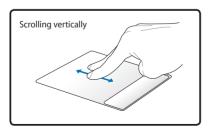


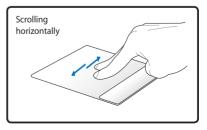


Hold left button and slide finger on touchpad.

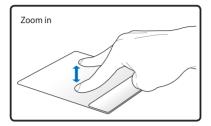
Lightly strike the touchpad twice, sliding finger on touchpad during second strike.

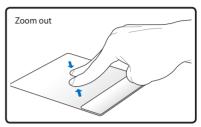
Two-finger scrolling - Use two fingertips to slide up/down/left/right on the touchpad to scroll a window up/down/left/right. If your display window includes several sub-windows, move the pointer on that pane before scrolling.



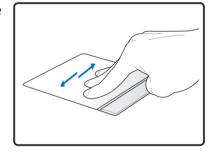


Two-finger pinching - Moving two fingertips apart or together on the touchpad to zoom in or zoom out.

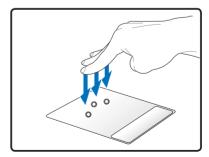




Three-finger flipping - Use three fingers to move horizontally on the touchpad to swipe pages. Swipe from left to the right to view the next page or right to the left to return to the previous pages.



Three-finger tapping - Use three fingers to tap the touchpad. This action mimics the right-click function of a mouse.



Caring for the Touchpad

The touchpad is pressure sensitive. If not properly cared for, it can be easily damaged. Take note of the following precautions.

- Ensure the touchpad does not come into contact with dirt, liquids or grease.
- Do not touch the touchpad if your fingers are dirty or wet.
- Do not rest heavy objects on the touchpad or the touchpad buttons.
- Do not scratch the touchpad with your finger nails or any hard objects.



The touchpad responds to movement not to force. There is no need to tap the surface too hard. Tapping too hard does not increase the responsiveness of the touchpad. The touchpad responds best to light pressure.

Automatic Touchpad Disabling

Windows can automatically disable the Notebook PC's touchpad when an external USB mouse is attached.

This feature is normally OFF, to turn ON this feature:

 Select the option in Windows Control Panel > Hardware and Sound > Mouse.



2. Click **ELAN** on the top and click **Disable when external USB mouse plug in** check box.



3. Click **OK** to finish the configuration.

Storage Devices

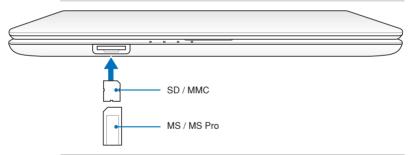
Storage devices allow the Notebook PC to read or write documents. pictures, and other files to various data storage devices.

Flash Memory Card Reader

Normally a memory card reader must be purchased separately in order to use memory cards from devices such as digital cameras, MP3 players, mobile phones, and PDAs. This Notebook PC has a single built-in memory card reader that can use many flash memory cards as shown in the example below. The built-in memory card reader is not only convenient, but also faster than most other forms of memory card readers because it utilizes the internal highbandwidth PCI bus.



IMPORTANT! Flash memory card compatibility varies depending on Notebook PC model and flash memory card specifications. Flash memory card specifications constantly change so compatibility may change without warning.





IMPORTANT! Never remove cards while or immediately after reading, copying, formatting, or deleting data on the card or else data loss may occur.



WARNING! To prevent data loss, use "Safely Remove Hardware" and Eject Media" in the Windows notification area before removing the flash memory card.

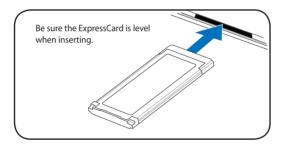


Expansion Card

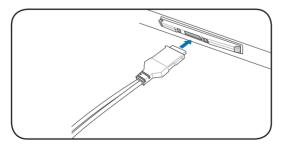
One 26pin Express card slot is available to support one ExpressCard/34mm or expansion card. This new interface is faster by using a serial bus supporting USB 2.0 and PCI Express instead of the slower parallel bus used in the PC card slot. (Not compatible with previous PCMCIA cards.)

Inserting an Expansion Card

- 1. If there is an ExpressCard socket protector, remove it using the "Removing an ExpressCard" instructions below.
- Insert the ExpressCard with the connector side first and label side up. Standard ExpressCards will be flush with the Notebook PC when fully inserted.

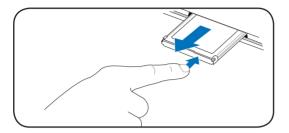


 Carefully connect any cables or adapters needed by the ExpressCard. Usually connectors can only be inserted in one orientation. Look for a sticker, icon, or marking on one side of the connector representing the top side.



Removing an Expansion Card

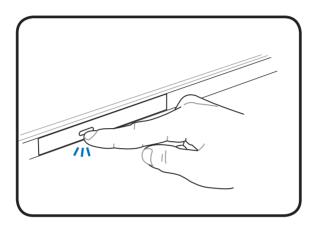
The ExpressCard slot does not have an eject button. Press the ExpressCard inwards and release to eject the ExpressCard. Carefully pull the ejected ExpressCard out of the socket.



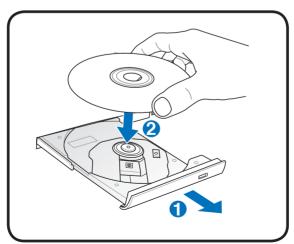
Optical Drive

Inserting an optical disc

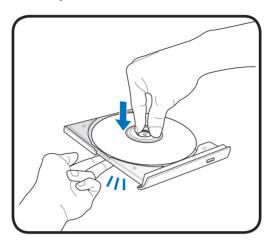
1. While the Notebook PC's power is ON, press the drive's eject button and the tray will eject out partially.



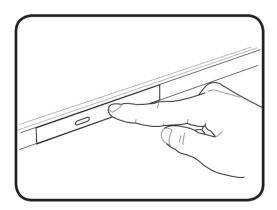
2. Gently pull on the drive's front panel and slide the tray completely out. Be careful not to touch the CD drive lens and other mechanisms. Make sure there are no obstructions that may get jammed under the drive's tray.



Hold the disc by the edge and face the disc's printed side up.
 Push down on both sides of the disc's center until the disc snaps
 onto the hub. The hub should be higher than the disc when
 correctly mounted.



4. Slowly push the drive's tray back in. The drive will begin reading the table of contents (TOC) on the disc. When the drive stops, the disc is ready to be used.

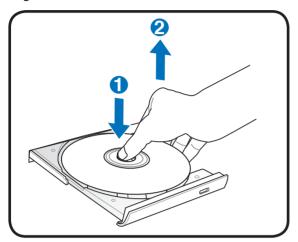




It is normal to hear as well as feel the CD spinning with great intensity in the CD drive while data is read.

Removing an optical disc

Eject the tray and gently pry the edge of the disc upwards at an angle to remove the disc from the hub.

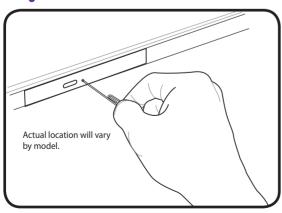


Emergency eject

The emergency eject is located in a hole on the optical drive and is used to eject the optical drive tray in case the electronic eject does not work. Do not use the emergency eject in place of the electronic eject.



Ensure not to stab the activity indicator located in the same area.



Hard Disk Drive

Hard disk drives have higher capacities and operate at much faster speeds than floppy disk drives and optical drives. The Notebook PC comes with a replaceable hard disk drive. Current hard drives support S.M.A.R.T. (Self Monitoring and Reporting Technology) to detect hard disk errors or failures before they happen. When replacing or upgrading the hard drive, always visit an authorized service center or retailer for this Notebook PC.



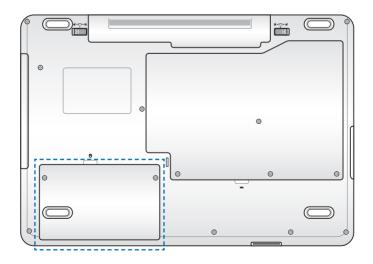
IMPORTANT! Poor handling of the Notebook PC may damage the hard disk drive. Handle the Notebook PC gently and keep it away from static electricity and strong vibrations or impact. The hard disk drive is the most delicate component and will likely be the first or only component that is damaged if the Notebook PC is dropped.



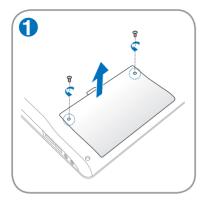
IMPORTANT! When replacing or upgrading the hard drive, always visit an authorized service center or retailer for this Notebook PC.

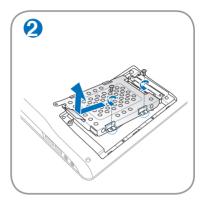


WARNING! Disconnect all the connected peripherals, any telephone or telecommunication lines and power connector (such as external power supply, battery pack, etc.) before removing the hard disk cover.

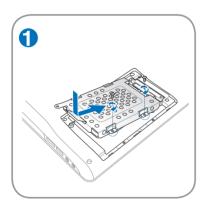


Removing the hard disk drives





Installing the hard disk drives

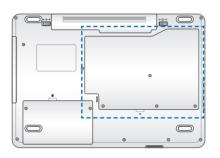




Memory (RAM)

Additional memory will increase application performance by decreasing hard disk access. Visit an authorized service center or retailer for information on memory upgrades for your Notebook PC. Only purchase expansion modules from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability.

The BIOS automatically detects the amount of memory in the system and configures CMOS accordingly during the POST (Power-On-Self-Test) process. There is no hardware or software (including BIOS) setup required after the memory is installed.

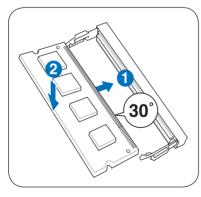




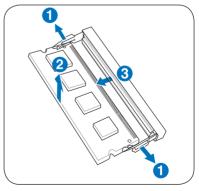
WARNING! Disconnect all the connected peripherals, any telephone or telecommunication lines and power connector (such as external power supply, battery pack, etc.) before installing or removing a memory.

Installing a Memory Card:

Removing a Memory Card:







(This is only an example.)

Connections



The built-in network cannot be installed later as an upgrade. After purchase, network can be installed as an expansion card.

Network Connection

Connect a network cable, with RJ-45 connectors on each end, to the modem/network port on the Notebook PC and the other end to a hub or switch. For 100 BASE-TX / 1000 BASE-T speeds, your network cable must be category 5 or better (not category 3) with twisted-pair wiring. If you plan on running the interface at 100/1000Mbps, it must be connected to a 100 BASE-TX / 1000 BASE-T hub (not a BASE-T4 hub). For 10Base-T, use category 3, 4, or 5 twisted-pair wiring. 10/100 Mbps Full-Duplex is supported on this Notebook PC but requires connection to a network switching hub with "duplex" enabled. The software default is to use the fastest setting so no user-intervention is required.

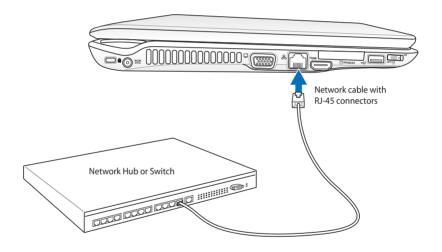


1000BASE-T (or Gigabit) is only supported on selected models.

Twisted-Pair Cable

The cable used to connect the Ethernet card to a host (generally a Hub or Switch) is called a straight-through Twisted Pair Ethernet (TPE). The end connectors are called RJ-45 connectors, which are not compatible with RJ-11 telephone connectors. If connecting two computers together without a hub in between, a crossover LAN cable is required (Fast-Ethernet model). (Gigabit models support auto-crossover so a crossover LAN cable is optional.)

Example of the Notebook PC connected to a Network Hub or Switch for use with the built-in Ethernet controller.



Wireless LAN Connection (on selected models)

The optional built-in wireless LAN is a compact easy-to-use wireless Ethernet adapter. Implementing the IEEE 802.11 standard for wireless LAN (WLAN), the optional built-in wireless LAN is capable of fast data transmission rates using Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) technologies on 2.4GHz/5GHz frequencies. The optional built-in wireless LAN is backward compatible with the earlier IEEE 802.11 standards allowing seamless interfacing of wireless LAN standards. The optional built-in wireless LAN is a client adapter that supports Infrastructure and Ad-hoc modes giving you flexibility on your existing or future wireless network configurations for distances up to 40 meters between the client and the access point.

To provide efficient security to your wireless communication, the optional built-in wireless LAN comes with a 64-bit/128-bit Wired Equivalent Privacy (WEP) encryption and Wi-Fi Protected Access (WPA) features.

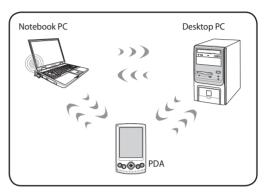


For security concerns, DO NOT connect to the unsecured network; otherwise, the information transmission without encryption might be visible to others.

Ad-hoc mode

The Ad-hoc mode allows the Notebook PC to connect to another wireless device. No access point (AP) is required in this wireless environment.

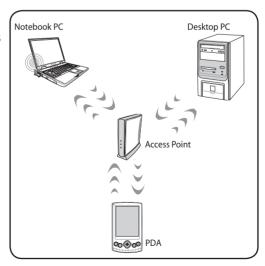
(All devices must install optional 802.11 wireless LAN adapters.)



Infrastructure mode

The Infrastructure mode allows the Notebook PC and other wireless devices to join a wireless network created by an Access Point (AP) (sold separately) that provides a central link for wireless clients to communicate with each other or with a wired network.

(All devices must install optional 802.11 wireless LAN adapters.)



Windows Wireless Network Connection

Connecting to a network

1. Switch ON the Wireless function if necessary for your model (see switches in Chapter 3).

 Press [FN+F2] repeatedly until wireless LAN icon and Bluetooth icon are shown.

> Or double click the Wireless Console icon in Windows notification area and select the wireless LAN icon



- 3. Click the wireless network icon with an orange star in the Windows® Notification area.
- Select the wireless access point you want to connect to from the list and click Connect to build the connection.



If you cannot find the desired access point, click the **Refresh** icon 49 on the upper right corner to refresh and search in the list again.



- 5. When connecting, you may have to enter a password.
- 6. After a connection has been established, the connection is shown on the list.
- 7. You can see the wireless network icon in the Notification area.



The crossed wireless network icon $\frac{1}{1000}$ appears when you press <Fn> + <F2> to disable the WLAN function.

Bluetooth Wireless Connection (on selected models)

Notebook PCs with Bluetooth technology eliminates the need for cables for connecting Bluetooth-enabled devices. Examples of Bluetooth-enabled devices may be Notebook PCs, Desktop PCs, mobile phones, and PDAs.



If your Notebook PC did not come with built-in Bluetooth, you need to connect a USB or ExpressCard Bluetooth module in order to use Bluetooth.

Bluetooth-enabled mobile phones

You can wireless connect to your mobile phone. Depending on your mobile phone's capabilities, you can transfer phone book data, photos, sound files, etc. or use it as a modem to connect to the Internet. You may also use it for SMS messaging.

Bluetooth-enabled computers or PDAs

You can wireless connect to another computer or PDA and exchange files, share peripherals, or share Internet or network connections. You may also make use of Bluetooth-enabled wireless keyboard or mouse.

Turning ON and Launching Bluetooth Utility

This process can be used to add most Bluetooth devices.

- Switch ON the Wireless function if necessary for your model (see switches in Chapter 3).
- Press [FN+F2] repeatedly until wireless LAN icon and bluetooth icon are shown.





Or double click the Wireless Console icon in the Windows notification area and select the Bluetooth icon.



From Control Panel, go
to Network and Internet
 Network and Sharing
Center and then click
Change adapter settings in
the left blue pane.



4. Right-click Bluetooth
Network Connection and
select View Bluetooth
Network Devices.



Click Add a device to look for new devices.



 Select a Bluetooth-enabled device from the list and click Next.



7. Enter the Bluetooth security code into your device and start pairing.



8. The paired relationship is successfully built. Click **Close** to finish the setting.



Antenna Connections (on selected models)

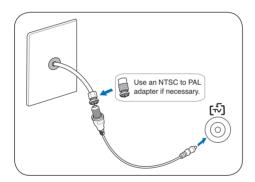
This page shows multimedia connections for TV Tuner Models. TV and radio features require built-in modules only on selected models.



IMPORTANT! The Notebook PC must be used indoors when using the antenna.

Cable connection

Connect the coaxial cable from a paid television service, roof-mounted aerial antenna, or indoor "rabbit ears" to the cable adapter. Cable service connection can receive analog TV depending on paid services. The provided adapter is necessary to change the coaxial plug to fit the slim Notebook PC. Attach an NTSC to PAL adapter if necessary.

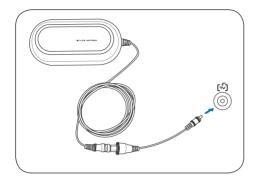




IMPORTANT! Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable – installation should include bonding the screen of the coaxial cable to the earth at the building entrance.

DTV antenna connection

Connect the provided digital TV antenna to the Notebook PC using the cable adapter. The digital TV antenna can only receive digital TV signals broadcasted in selected regions.



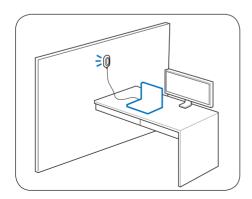


<u>Digital television reception is available on selected models only</u> and will vary by location depending on distance from transmission towers and obstructions.

Antenna placement

Horizontal: Can be safely placed on flat surfaces such as table tops, cabinets, and shelves.

Vertical: Magnets in base allows attachment to metallic surfaces such as partitions or cabinets.



Appendix

Optional Accessories

These items, if desired, come as optional items to complement your Notebook PC.

USB Hub (Optional)

Attaching an optional USB hub will increase your USB ports and allow you to quickly connect or disconnect many USB peripherals through a single cable.

USB Flash Memory Disk

A USB flash memory disk is an optional item that can provide storage up to several hundred megabytes, higher transfer speeds, and greater durability. When used in current operating systems, no drivers are necessary.

USB Floppy Disk Drive

An optional USB-interface floppy disk drive can accept a standard 1.44MB (or 720KB) 3.5-inch floppy diskette.



WARNING! To prevent system failures, use Windows "Safely Remove Hardware" on the taskbar before disconnecting the USB floppy disk drive. Eject the floppy disk before transporting the Notebook PC to prevent damage from shock.

Optional Connections

These items, if desired, may be purchased from third-parties.

USB Keyboard and Mouse

Attaching an external USB keyboard will allow data entry to be more comfortable. Attaching an external USB mouse will allow Windows navigation to be more comfortable. Both the external USB keyboard and mouse will work simultaneously with the Notebook PC's built-in keyboard and touchpad.

Printer Connection

One or more USB printers can be simultaneously used on any USB port or USB hub.

Operating System and Software

This Notebook PC may offer (depending on territory) its customers the choice of a pre-installed **Microsoft Windows** operating system. The choices and languages will depend on the territory. The levels of hardware and software support may vary depending on the installed operating system. The stability and compatibility of other operating systems cannot be guaranteed.

Support Software

This Notebook PC comes with a support disc that provides BIOS, drivers and applications to enable hardware features, extend functionality, help manage your Notebook PC, or add functionality not provided by the native operating system. If updates or replacement of the support disc is necessary, contact your dealer for web sites to download individual software drivers and utilities.

The support disc contains all drivers, utilities and software for all popular operating systems including those that have been preinstalled. The support disc does not include the operating system itself. The support disc is necessary even if your Notebook PC came pre-configured in order to provide additional software not included as part of the factory pre-install.

A recovery disc is optional and includes an image of the original operating system installed on the hard drive at the factory. The recovery disc provides a comprehensive recovery solution that quickly restores the Notebook PC's operating system to its original working state provided that your hard disk drive is in good working order. Contact your retailer if you require such a solution.



Some of the Notebook PC's components and features may not work until the device drivers and utilities are installed.

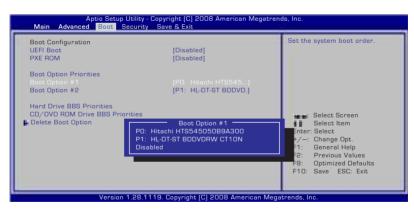
System BIOS Settings

Boot Device

1. On the Boot screen, select Boot Option #1.



2. Press [Enter] and select a device as the Boot Option #1.



Security Setting



To set the password:

- On the Security screen, select Setup Administrator Password or User Password.
- 2. Type in a password and press [Enter].
- 3. Re-type to confirm the password and press [Enter].
- 4. Password is then set.

To clear the password:

- On the Security screen, select Setup Administrator Password or User Password.
- 2. Enter the current password and press [Enter].
- 3. Leave the **Create New Password** field blank and press [Enter].
- 4. Leave the **Confirm New Password** field blank and press [Enter].
- 5. Password is then cleared.

Save Changes

If you want to keep your configuration settings, you must save changes before exiting the BIOS setup utility.

If you want to restore default settings, choose **Restore Defaults**. You must then save changes to keep the manufacture default settings.



Common Problems and Solutions

Hardware Problem - Optical Disc

The optical disc drive is not able to read or write discs.

- 1. Update the BIOS to the latest version and try again.
- 2. If updating the BIOS does not help, try better quality discs and try again.
- 3. If the problem still exist, contact your local service center and ask an engineer for assistance.

Unknown Reason - System Unstable

Cannot wake up from the hibernation.

- 1. Remove upgraded parts (RAM, HDD, WLAN, BT) if they were installed after purchase.
- 2. If not the case, try MS System Restore to an earlier date.
- 3. If problem still persists, try restoring your system using the recovery partition or DVD.



You must backup all your data to another location before recovering.

4. If the problem still exist, contact your local service center and ask an engineer for assistance.

Hardware Problem - Keyboard / Hotkey

The Hotkey (FN) is disabled.

A. Reinstall the "ATK0100" driver from the driver CD or download it from the ASUS website.

Hardware Problem - Built-in Camera

The built-in camera does not work correctly.

- 1. Check "Device Manager" to see if there are any problems.
- 2. Try reinstalling the webcam driver to solve the problem.
- 3. If the problem is not solved, update the BIOS to the latest version and try again.
- 4. If the problem still exist, contact your local service center and ask an engineer for assistance.

Hardware Problem - Battery

Battery maintenance.

1. Register the Notebook PC for a one-year-warranty using the following website:

http://member.asus.com/login.aspx?SLanguage=en-us

2. Do NOT remove the battery pack while using the Notebook PC with the AC adaptor to prevent damage caused by the accidental power loss. The ASUS battery pack has protection circuitry to prevent over-charging so it will not damage the battery pack if it is left in the Notebook PC.

Hardware Problem - Power ON/OFF Error

I cannot power ON the Notebook PC.

Diagnostics:

- 1. Power On by Battery only? (Y = 2, N = 4)
- 2. Able to see BIOS (ASUS Logo)? (Y = 3, N = A)
- 3. Able to load the OS? (Y = B, N = A)
- 4. Adapter power LED ON? (Y = 5, N = C)
- 5. Power ON by Adapter only? (Y = 6, N = A)
- 6. Able to see BIOS (ASUS Logo)? (Y = 7, N = A)
- 7. Able to load the OS? (Y = D, N = A)

Symptom & Solutions:

- A. Problem might be in the MB, HDD, or NB; visit a local service center for assistance.
- B. Problem caused by the operating system, try restoring your system using the recovery partition or disc.



IMPORTANT! You must backup all your data to another location before recovering.

- C. Adapter problem; check the power cord connections, otherwise visit a local service center for replacement.
- D. Battery problem; please check the battery contacts, otherwise visit a local service center for repair.

Hardware Problem - Wireless Card

How to check whether a Notebook PC is equipped with a wireless card?

A. Enter Control Panel -> Device Manager. You will see whether the Notebook PC has a WLAN card under the "Network Adapter" item.

Mechanical Problem - FAN / Thermal

Why is the cooling fan always ON and the temperature high?

- 1. Make sure that the FAN works when the CPU temperature is high and check whether there is air flow from the main air vent.
- 2. If you have many applications running (see taskbar), close them to decrease system load.
- 3. The problem may also be caused by some viruses, use anti-virus software to detect them.
- 4. If none of the above help, try restoring your system using the recovery partition or DVD.



IMPORTANT! You must backup all your data to another location before recovering.



CAUTION! DO NOT connect to the Internet before you have installed an anti-virus software and Internet firewall to protect yourself from viruses.

Software Problem - ASUS bundled software

When I power ON the Notebook PC, there will be an "Open policy file error" message.

A. Reinstall the latest version "Power4 Gear" utility to solve your problem. It is available on the ASUS website.

Unknown Reason - Blue screen with white text

A blue screen with white text appears after system bootup.

- Remove additional memory. If additional memory was installed after purchase, power OFF, remove the additional memory, and power ON to see if the problem is due to incompatible memory.
- 2. Un-install software applications. If you have installed software applications recently, they may not be compatible with your system. Try to un-install them in Windows Safe Mode.
- 3. Check your system for viruses.
- 4. Update the BIOS to the latest version with Easy Flash in Windows or AFLASH in DOS mode. These utilities and BIOS files can be downloaded from the ASUS website.



WARNING! Ensure your Notebook PC does not lose power during the BIOS flashing process.

5. If problem still cannot be solved, use the recovery process to reinstall your entire system.



IMPORTANT! You must backup all your data to another location before recovering.



CAUTION! DO NOT connect to the Internet before you have installed an anti-virus software and Internet firewall to protect yourself from viruses.



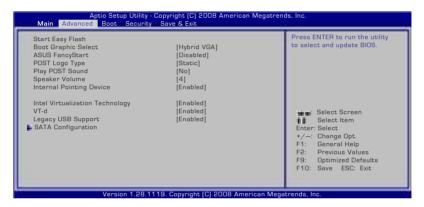
Ensure that you install the "Intel INF Update" and "ATKACPI" drivers first so that hardware devices can be recognized.

6. If the problem still exist, contact your local service center and ask an engineer for assistance.

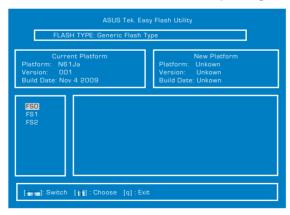
Software Problem - BIOS

Updating the BIOS.

- 1. Please verify the Notebook PC's exact model and download the latest BIOS file for your model from the ASUS website and save it in your flash disk drive.
- 2. Connect your flash disk drive to the Notebook PC and power on the Notebook PC.
- 3. Use the "Start Easy Flash" function on the Advanced page of the BIOS Setup Utility. Follow the instructions shown.



4. Locate the latest BIOS file and start updating (flashing) the BIOS.



5. You must "Restore Defaults" on the Exit page after updating (flashing) the BIOS.

Recovering Your Notebook PC

Using Recovery Partition

The Recovery Partition quickly restores your Notebook PC's software to its original working state. Before using the Recovery Partition, copy your data files (such as Outlook PST files) to USB storage devices or to a network drive and make note of any customized configuration settings (such as network settings).

About the Recovery Partition

The Recovery Partition is a reserved space on your hard disk drive used to restore the operating system, drivers, and utilities installed on your Notebook PC at the factory.



IMPORTANT! DO NOT delete the partition named **RECOVERY**. The Recovery Partition is created at the factory and cannot be

restored if deleted. Take your Notebook PC to an authorized ASUS service center if you have problems with the recovery process.



Using the Recovery Partition:

- 1. Press [F9] during bootup.
- 2. Press [Enter] to select Windows Setup [EMS Enabled].
- 3. Select the language you want to recover and click **Next**.
- 4. Read the ASUS Preload Wizard messages and click Next.
- 5. Select a partition option and click **Next**. Partition options:

Recover Windows to first partition only.

This option deletes only the first partition and allows you to keep other partitions, and to create a new system partition as drive "C".

Recover Windows to entire HD.

This option deletes all partitions from your hard disk drive and creates a new system partition as drive "C".

Recover Windows to entire HD with two partitions.

This option deletes all partitions from your hard drive and creates two new partitions "C" (60%) and "D" (40%).

6. Follow the onscreen instructions to complete the recovery process.



Visit the ASUS website at www.asus.com for updated drivers and utilities.

Using Recovery DVD (on selected models)

Creating the Recovery DVD:

- Double-click the Al Recovery Burner icon on the Window desktop.
- Insert a blank writable DVD into the optical drive and click Start to start



creating the Recovery DVD.

3. Follow the onscreen instructions to complete creating the recovery DVD.



Prepare enough blank writable DVDs as instructed to create the Recovery DVD.



IMPORTANT! Remove the external hard disk drive before performing system recovery on your Notebook PC. According to Microsoft, you may lose important data because of setting up Windows on the wrong disk drive or formatting the incorrect drive partition.

Using the Recovery DVD:

- Insert the Recovery DVD into the optical drive. Your Notebook PC needs to be powered ON.
- 2. Restart the Notebook PC and press [Esc] on bootup and select the optical drive (may be labeled as "CD/DVD") and press [Enter] to boot from the Recovery DVD.
- 3. Select **OK** to start to restore the image.
- 4. Select **OK** to confirm the system recovery.



Restoring will overwrite your hard drive. Ensure to back up all your important data before the system recovery.

5. Follow the onscreen instructions to complete the recovery process.



WARNING: DO NOT remove the Recovery disc, unless instructed to do so, during the recovery process or else your partitions will be unusable.



Ensure to connect the power adapter to your Notebook PC when performing system recovery. Unstable power supply may cause recovery failure.



Visit the ASUS website at www.asus.com for updated drivers and utilities.

DVD-ROM Drive Information

The Notebook PC comes with an optional DVD-ROM drive or a CD-ROM drive. In order to view DVD titles, you must install your own DVD viewer software. Optional DVD viewer software may be purchased with this Notebook PC. The DVD-ROM drive allows the use of both CD and DVD discs.

Regional Playback Information

Playback of DVD movie titles involves decoding MPEG2 video, digital AC3 audio and decryption of CSS protected content. CSS (sometimes called copy guard) is the name given to the content protection scheme adopted by the motion picture industry to satisfy a need to protect against unlawful content duplication.

Although the design rules imposed on CSS licensors are many, one rule that is most relevant is playback restrictions on regionalized content. In order to facilitate geographically staggered movie releases, DVD video titles are released for specific geographic regions as defined in "Region Definitions" below. Copyright laws require that all DVD movies be limited to a particular region (usually coded to the region at which it is sold). While DVD movie content may be released for multiple regions, CSS design rules require that any system capable of playing CSS encrypted content must only be capable of playing one region.



The region setting may be changed up to five times using the viewer software, then it can only play DVD movies for the last region setting. Changing the region code after that will require factory resetting which is not covered by warranty. If resetting is desired, shipping and resetting costs will be at the expense of the user.

Region Definitions

Region 1

Canada, US, US Territories

Region 2

Czech, Egypt, Finland, France, Germany, Gulf States, Hungary, Iceland, Iran, Iraq, Ireland, Italy, Japan, Netherlands, Norway, Poland, Portugal, Saudi Arabia, Scotland, South Africa, Spain, Sweden, Switzerland, Syria, Turkey, UK, Greece, Former Yugoslav Republics, Slovakia

Region 3

Burma, Indonesia, South Korea, Malaysia, Philippines, Singapore, Taiwan, Thailand, Vietnam

Region 4

Australia, Caribbean (Except US Territories), Central America, New Zealand, Pacific Islands, South America

Region 5

CIS, India, Pakistan, Rest of Africa, Russia, North Korea

Region 6

China

Internal Modem Compliancy

The Notebook PC with internal modem model complies with JATE (Japan), FCC (US, Canada, Korea, Taiwan), and CTR21. The internal modem has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems you should contact your equipment supplier in the first instance.

Overview

On 4th August 1998 the European Council Decision regarding the CTR 21 has been published in the Official Journal of the EC. The CTR 21 applies to all non voice terminal equipment with DTMF-dialling which is intended to be connected to the analogue PSTN (Public Switched Telephone Network).

CTR 21 (Common Technical Regulation) for the attachment requirements for connection to the analogue public switched telephone networks of terminal equipment (excluding terminal equipment supporting the voice telephony justified case service) in which network addressing, if provided, is by means of dual tone multifrequency signalling.

Network Compatibility Declaration

Statement to be made by the manufacturer to the Notified Body and the vendor: "This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have inter-working difficulties"

Network Compatibility Declaration

Statement to be made by the manufacturer to the user: "This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have inter-working difficulties. The manufacturer shall also associate a statement to make it clear where network compatibility is dependent on physical and software switch settings. It will also advise the user to contact the vendor if it is desired to use the equipment on another network."

Up to now the Notified Body of CETECOM issued several pan-European approvals using CTR 21. The results are Europe's first modems which do not require regulatory approvals in each individual European country.

Non-Voice Equipment

Answering machines and loud-speaking telephones can be eligible as well as modems, fax machines, auto-dialers and alarm systems. Equipment in which the end-to-end quality of speech is controlled by regulations (e.g. handset telephones and in some countries also cordless telephones) is excluded.

This table shows the countries currently under the CTR21 standard.

<u>Country</u>	Applied	More Testing
Austria ¹	Yes	No
Belgium	Yes	No
Czech Republic	No	Not Applicable
Denmark ¹	Yes	Yes
Finland	Yes	No
France	Yes	No
Germany	Yes	No
Greece	Yes	No
Hungary	No	Not Applicable
Iceland	Yes	No
Ireland	Yes	No
Italy	Still Pending	Still Pending
Italy Israel	Still Pending No	Still Pending No
•	_	_
Israel	No	No
Israel Lichtenstein	No Yes	No No
Israel Lichtenstein Luxemburg	No Yes Yes	No No No
Israel Lichtenstein Luxemburg The Netherlands ¹	No Yes Yes	No No No Yes
Israel Lichtenstein Luxemburg The Netherlands ¹ Norway	No Yes Yes Yes	No No No Yes
Israel Lichtenstein Luxemburg The Netherlands ¹ Norway Poland	No Yes Yes Yes Yes	No No No Yes No Not Applicable
Israel Lichtenstein Luxemburg The Netherlands¹ Norway Poland Portugal	No Yes Yes Yes Yes No	No No No Yes No Not Applicable Not Applicable
Israel Lichtenstein Luxemburg The Netherlands¹ Norway Poland Portugal Spain	No Yes Yes Yes Yes No No	No No No Yes No Not Applicable Not Applicable Not Applicable

This information was copied from CETECOM and is supplied without liability. For updates to this table, you may visit http://www.cetecom.de/technologies/ctr_21.html

1 National requirements will apply only if the equipment may use pulse dialling (manufacturers may state in the user guide that the equipment is only intended to support DTMF signalling, which would make any additional testing superfluous).

In The Netherlands additional testing is required for series connection and caller ID facilities.

Declarations and Safety Statements

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

(Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office.)

FCC Radio Frequency (RF) Exposure Caution Statement



Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. "The manufacture declares that this device is limited to Channels 1 through 11 in the 2.4GHz frequency by specified firmware controlled in the USA."

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Declaration of Conformity (R&TTE directive 1999/5/EC)

The following items were completed and are considered relevant and sufficient:

- Essential requirements as in [Article 3]
- Protection requirements for health and safety as in [Article 3.1a]
- Testing for electric safety according to [EN 60950]
- Protection requirements for electromagnetic compatibility in [Article 3.1b]
- Testing for electromagnetic compatibility in [EN 301 489-1] & [EN 301 489-17]
- Effective use of the radio spectrum as in [Article 3.2]
- Radio test suites according to [EN 300 328-2]

CE Marking



CE marking for devices without wireless LAN/Bluetooth

The shipped version of this device complies with the requirements of the EEC directives 2004/108/EC "Electromagnetic compatibility" and 2006/95/EC "Low voltage directive".



CE marking for devices with wireless LAN/ Bluetooth

This equipment complies with the requirements of Directive 1999/5/ EC of the European Parliament and Commission from 9 March, 1999 governing Radio and Telecommunications Equipment and mutual recognition of conformity.

IC Radiation Exposure Statement for Canada

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Operation is subject to the following two conditions:

- · This device may not cause interference and
- This device must accept any interference, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service (i.e. co-channel Mobile Satellite systems) this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Wireless Operation Channel for Different Domains

N. America	2.412-2.462 GHz	Ch01 through CH11
Japan	2.412-2.484 GHz	Ch01 through Ch14
Europe ETSI	2.412-2.472 GHz	Ch01 through Ch13

France Restricted Wireless Frequency Bands

Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are:

- 10mW for the entire 2.4 GHz band (2400 MHz–2483.5 MHz)
- 100mW for frequencies between 2446.5 MHz and 2483.5 MHz



Channels 10 through 13 inclusive operate in the band 2446.6 MHz to 2483.5 MHz.

There are few possibilities for outdoor use: On private property or on the private property of public persons, use is subject to a preliminary authorization procedure by the Ministry of Defense, with maximum authorized power of 100mW in the 2446.5–2483.5 MHz band. Use outdoors on public property is not permitted.

In the departments listed below, for the entire 2.4 GHz band:

- Maximum authorized power indoors is 100mW
- Maximum authorized power outdoors is 10mW

Departments in which the use of the 2400–2483.5 MHz band is permitted with an EIRP of less than 100mW indoors and less than 10mW outdoors:

01 Ain	02 Aisne	03 Allier
05 Hautes Alpes	08 Ardennes	09 Ariège
11 Aude	12 Aveyron	16 Charente
24 Dordogne	25 Doubs	26 Drôme
32 Gers	36 Indre	37 Indre et Loire
41 Loir et Cher	45 Loiret	50 Manche
55 Meuse	58 Nièvre	59 Nord

60 Oise 61 Orne

63 Puy du Dôme 64 Pyrénées Atlantique

66 Pyrénées Orientales 67 Bas Rhin

68 Haut Rhin 70 Haute Saône

71 Saône et Loire 75 Paris 82 Tarn et Garonne 84 Vaucluse 88 Vosges 89 Yonne

90 Territoire de Belfort 94 Val de Marne

This requirement is likely to change over time, allowing you to use your wireless LAN card in more areas within France. Please check with ART for the latest information (www.art-telecom.fr)



Your WLAN Card transmits less than 100mW, but more than 10mW.

UL Safety Notices

Required for UL 1459 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 200V peak, 300V peak-to-peak, and 105V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

When using the Notebook PC modem, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- DO NOT use the Notebook PC near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- DO NOT use the Notebook PC during an electrical storm. There
 may be a remote risk of electric shock from lightning.
- DO NOT use the Notebook PC in the vicinity of a gas leak.

Required for UL 1642 covering primary (nonrechargeable) and secondary (rechargeable) lithium batteries for use as power sources in products. These batteries contain metallic lithium, or a lithium alloy, or a lithium ion, and may consist of a single electrochemical cell or two or more cells connected in series, parallel, or both, that convert chemical energy into electrical energy by an irreversible or reversible chemical reaction.

- Do not dispose the Notebook PC battery pack in a fire, as they may explode. Check with local codes for possible special disposal instructions to reduce the risk of injury to persons due to fire or explosion.
- Do not use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.

Power Safety Requirement

Products with electrical current ratings up to 6A and weighing more than 3Kg must use approved power cords greater than or equal to: H05VV-F, 3G, 0.75mm² or H05VV-F, 2G, 0.75mm².

TV Tuner Notices

Note to CATV System Installer—Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable – installation should include bonding the screen of the coaxial cable to the earth at the building entrance.

REACH

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at http://green.asus.com/english/REACH.htm.

Nordic Lithium Cautions (for lithium-ion batteries)

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. (English)

ATTENZIONE! Rischio di esplosione della batteria se sostituita in modo errato. Sostituire la batteria con un una di tipo uguale o equivalente consigliata dalla fabbrica. Non disperdere le batterie nell'ambiente. (Italian)

VORSICHT! Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers. (German)

ADVARSELI! Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren. (Danish)

VARNING! Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion. (Swedish)

VAROITUS! Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan sousittelemaan tyyppiin. Hävitä käytetty paristo valmistagan ohjeiden mukaisesti. (Finnish)

ATTENTION! Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du mêre type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant. (French)

ADVARSEL! Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner. (Norwegian)

標準品以外の使用は、危険の元になります。交換品を使用する場合、製造者 に指定されるものを使って下さい。製造者の指示に従って処理して下さい。 (Japanese)

ВНИМАНИЕ! При замене аккумулятора на аккумулятор иного типа возможно его возгорание. Утилизируйте аккумулятор в соответствии с инструкциями производителя. (Russian)

Optical Drive Safety Information

Laser Safety Information

Internal or external optical drives sold with this Notebook PC contains a CLASS 1 LASER PRODUCT. Laser classifications can be found in the glossary at the end of this user's manual.



WARNING! Making adjustments or performing procedures other than those specified in the user's manual may result in hazardous laser exposure. Do not attempt to disassemble the optical drive. For your safety, have the optical drive serviced only by an authorized service provider.

Service warning label



CAUTION! INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured from August 1, 1976. Compliance is mandatory for products marketed in the United States.



WARNING! Use of controls or adjustments or performance of procedures other than those specified herein or in the laser product installation guide may result in hazardous radiation exposure.

Macrovision Corporation Product Notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S.A. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only *unless otherwise authorized by Macrovision Corporation*. Reverse engineering or disassembly is prohibited.

CTR 21 Approval (for Notebook PC with built-in Modem)

Danish

-Collegent en i bewbook til Riches beskunning 90/482/19 EU-godkendt til av blive opkröhet på de oftenslige telefonser som urskeffendender terminal. På grund af beskulle mellem de oftenslige telefonsent i de forskulle mellem de oftenslige telefonsent i de forskulle beskulle grunde kan av skingere bestyle goden på overskulle grunde kan i skingere konvite på omrellige furtensenningsponstare på de oftenslige furtensen.

I tilable at politimar bei De i ferne umping bewerde Dem til broundares at untrone

Dutch

Dit opposite to geodiphismel redgesse Beschräfting 99/40/2163 into de Band voor de pro-Europein southering van endebruidige circloppionisme op het openhour geschrächte indrodustrierk (PSTN). Excess de verschillen torrent de indroduste PSTN's or de verschillende landen, hold there goedkrecting op sielskill geen ommewaardelijde gesomte vane een naccessille werking op eli. PSTN-metrikaanshrippin.

Norm his problemen in sense material contact up that de feverancier can het apparent."

English

The equipment has been appeared in accordance with Council Deviane 99.04.DEC for pan Funquest might terminal connection to the policy environd telephone, natural PETAL Hostory, that is difference; between the indirectable PETAL Hostory, the indirectable PETAL to provide in difference countries, the appeared does not, of mick, give no neconfidurable sensition of specially operation on every PEEN colorest termination posses.

In the most of problems, you should contact true equipment supplier in the first measure."

Finnish

Taria him on hyvikopsy mironium phinthium 90-497/EV muhaisent himstrikki ykiminisent lamenuykinisen kytkimilinen puhalisen tikkoo (PSTV) UCu jisevuulkopsa. Eri misiku yksimin tyytyimininti piinisen kytkimi yilliki on kistomian senja, josta kysikovuti oj sellaisuusen taksa hiiriminta kiitkimi yksimin kytkimininsia puhalisenthiosia ilionistopiasiosi.

Oughnies immed aming vigymitti vinymi laman naminian."

French

Cet (quiperieret a rejo l'agriculet, conformirement à la décision 90.002/CE du Consoit, interestant le convenience parenumpériere du triminal unique mos réseaux sitiagémisques publics communés (ETPC). Condetine, continue d'estés des définiences d'aur para à l'autre centre les ETPC. Expenseres en ses de constitue par une garantie absolue de fonctionnement optimal à chaque pour de tyresinance du forme ETPC.

En cas de problème, sons deses commerc en premier has vote formanen-

German

"Dieses Gerit worde gemid der Ermeheiting MUNLDEG des Betes sompreseit zur Anschaltung als someher Endermichtung zu der Oberfürbe Feresprechnetz sogistenen, Andgrund der zwisches den officerlichen Feresprechnetzer werdstellener Knaten beschienden Unterschiede stellt diese Zufanzung zu sich jedech beim zuhlecheiges Gewähr bis einem erfolgerichen Betrieb des Gerits an jedem Bietsalbeiltstigmist des

Fells being Bertall Facilities authoris, reflice for sich matable as diese Factification species."

Greek

«O signituraje, žiju i vygilni na mirrajaminių minima papimajim miparianti ja no imjamo raktyninais litavio jatimortiji (PSTNA, mipanima ja tryt neispamy 19-42-18; nn. Eughnalian iartinia, rauklo intigrava dospoja, pratoži nie raukijano, ESTNA not nopijamos di doktoroj jamos, ii tyrojem dov mijetija nati sanoti, manajalancių njampalianų izringotą krimaginia, na akite mijama estikojoj, nat. Javos. PSTN.

Lie sensiques spekispien, le spine nel spy \hat{n}_i se sensitivem rew spapeheri en element m_i s.

Italian

«La premette apparecchiatos terminale è mite apparente le conformité della decisione 90/022/CE del Consiglio per la conformime pareccepes come terminale singolo al una site analogica PSTN: A count delle difference tre le reté dei déferenti pares. l'apparenatore con generalise perè di per sé di funcionamiento consiste in santi i paresi di terminassione di sate PSTN.

In case of problem commune in press large if families del produtto.

Portuguese

«Este egrepomente loi apennolo que ligação paracompsis de um único internal e entre mbitimos gabbles comunido (KTPC) nos termos do Daciale 16/442/CE. No critanto, desde in diferença extensiva extre se KTPC dos disercis países, a aprimação tido guerras incondocinalmente, por se se, um funçionamente contento em tudos in postar termosan de nob. da KTPC.

Est caso de poliforme, dese cattaine um contacto, per primore figur, com o temenodor do equipmentor

Spanish

Este apprèse la mile lumningade de combinentad con la Documin 90/002/CE del Comejo para la contation, parametere de un reminud strujfe a la mil relationa publica communia (ETPC). No chemina, la lestra de las debreccion que existen entre las ETPC, que se chicare en dedicamente parties, la locandagación no consisten por si sola una gasteria secondacional de loncionamiento unistanterio en milio los pueros de terminación de la mil se una ETPC.

For case the ranger object problems, provide potentic on contacts on primer larger zon of pursuable dell matters.

Swedish

"Unservingen har godkinns i onlighet med ilden hollat 94.042/EG för allsomgend anskoming som omkild servinad till der allmine tillgängliga kogsånde rekenten (PSTN). På grunn en de skildendre som hone mellim telsiske i onlike linder stgör godkinsvandet omellettid ötte i sig själet en attende gammi för att utsamningen kontenes att langses tillhydastillamte vid sarje telsminanskatningspootski.

One political appeals had as a times hand bureful becomes an assuming as

European Union Eco-label

This Notebook PC has been awarded the EU Flower label, which means that this product has the following characteristics:

- 1. Decreased energy consumption during use and stand-by modes.
- 2. Limited use of toxic heavy metals.
- 3. Limited use of substances harmful to the environment and health.
- 4. Reduction of the use of natural resources by encouraging recycling.
- 5. Extended product lifetime through easy upgrades and longer-time availability of spare parts.
- 6. Reduced solid waste through takeback policy.

For more information on the EU Flower label, please visit the European Union Eco-label website at http://europa.eu.int/ecolabel.

Takeback and Recycling

Old computers, notebook computers, and other electronic equipment contain hazardous chemicals that are harmful to the environment when disposed in a landfill with trash. By recycling, the metals, plastics, and components found in an old computer will be broken down and reused to make new products. And, the environment is protected from any uncontrolled release of harmful chemicals

ASUS works with recycling vendors with the highest standards for protecting our environment, ensuring worker safety, and complying with global environmental laws. Our commitment to recycling our old equipment grows out of our work to protect the environment in many ways.

For further information about ASUS product recycling and contacts, please visit GreenASUS Takeback and Recycling page at http://green.asus.com/english/takeback.htm.

This product is protected by one or more of the following U.S. Patents:

7.416.423: 7.415.588: 7.413.402: 7.411.791: 7.408.855: 7.403.378: 7.400.721; 7.399.011; 7.394.533; 7.392.968; 7.388.754; 7.388.752; 7.388.743: 7.382.605: 7.382.314: 7.375.952: 7.374.433: 7.373.493: 7.369.402; 7.369.064; 7.362.568; 7.362.521; 7.362.276; 7.361.034; 7,359,209; 7,359,189; 7,355,372; 7,353,408; 7,352,586; 7,343,645; 7,342,777; 7,342,193; 7,332,990; 7,328,354; 7,327,568; 7,325,241; 7.321.523; 7.319.585; 7.304.257; 7.299.479; 7.294.021; 7.294.011; 7,293,890; 7,293,273; 7,276,660; 7,267,566; 7,261,579; 7,261,573; 7.261.331:7.259.342:7.257.761:7.245.488:7.241.946:7.234.971: 7,233,555; 7,229,000; 7,224,657; 7,223,021; 7,218,587; 7,218,096; 7.213.250: 7.203.856: 7.193.580: 7.189.937: 7.187.537: 7.185.297: 7.184.278: 7.164.089: 7.161.541: 7.149.911: 7.148.418: 7.137.837: 7,133,279; 7,130,994; 7,125,282; 7,120,018; 7,111,953; 7,103,765; 7,100,087; 7,091,735; 7,088,592; 7,088,119; 7,086,887; 7,085,130; 7,078,882; 7,068,636; 7,066,751; 7,061,773; 7,047,598; 7,047,541; 7,043,741; 7,039,415; 7,035,946; 7,002,804; 6,980,159; 6,969,266; 6.946.861; 6.938.264; 6.933.927; 6.922.382; 6.873.064; 6.870.513; 6,843,407; 6,842,150; 6,827,589; 6,819,564; 6,817,510; 6,788,944; 6.783.373; 6.782.451; 6.775.208; 6.768.224; 6.760.293; 6.742.693; 6,732,903; 6,728,529; 6,724,352; 6,717,802; 6,717,074; 6,711,016; 6,694,442; 6,693,865; 6,687,248; 6,671,241; 6,657,548; 6,639,806; 6,622,571; 6,618,813; 6,612,850; 6,600,708; 6,561,852; 6,515,663; 6,509,754; 6,500,024; 6,491,359; 6,456,580; 6,456,492; 6,449,224; 6,449,144; 6,430,060; 6,415,389; 6,412,036; 6,407,930; 6,396,419; 6,396,409; 6,377,033; 6,339,340; 6,330,996; 6,310,779; 6,305,596; 6,301,778; 6,253,284; 6,226,741; 6,147,467; 6,095,409; 6,094,367; 6.085.331:6.041.346:5.963.017:

U.S. Patent Design D563,594; D557,695; D545,803; D542,256; D538,276; D534,889; D518,041; D510,325; D510,324; D509,194; Patents Pending.

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