

Product: 2007 Acer Aspire 5520/5220 Series Laptop Service Repair Workshop Manual
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Aspire 5520/5220 Series Service Guide

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Revision History

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Please refer to the table below for the updates made on Aspire 5520/5220 service guide.

Date	Chapter	Updates

Sample of manual. Download All 114 pages at:

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

System Specifications

Features

Below is a brief summary of the computer's many features:

Operating system

- q Windows Vista™ Ultimate
- q Windows Vista™ Home Premium
- q Windows Vista™ Home Basic
- q Windows Vista™ Starter

Platform and memory

- q AMD Better By Design program, featuring:
 - AMD Turion™ 64 X2 dual-core mobile technology TL-66 / TL-64 / TL-60 / TL-58 / TL-56 / TL-52 (2x512 KB L2 cache, 2.3 GHz / 2.2 GHz / 2.0 GHz / 1.9 GHz / 1.8 GHz / 1.6 GHz, supporting AMD HyperTransport® technology (for selected models)
 - AMD Athlon™ 64 X2 Mobile Technology TK-53/TK-55 (1.70/1.80 GHz, 2x 256 KB L2 cache), supporting AMD PowerNow!™ technology and AMD HyperTransport™ technology (for selected models)
 - AMD Turion™ 64 Mobile Technology MK-36/MK-38 (2/2.20 GHz, 512 KB L2 cache), supporting AMD PowerNow!™ technology and AMD HyperTransport™ technology (for selected models)
 - Mobile AMD Sempron™ 3500+ (1.80 GHz, 512 KB L2 cache), 3600+/3800+ (2/2.20 GHz, 256 KB L2 cache) (for selected models)
 - Acer InViLink™ 802.11b/g Wi-Fi CERTIFIED® solution, supporting Acer SignalUp™ wireless technology
- q Acer InViLink™ 802.11b/g Wi-Fi CERTIFIED® solution, supporting Acer SignalUp™ wireless technology
- q Core logic: North Bridge NVIDIA nForce® 610M (MCP67-MV) (Single chip)
- q Up to 2GB of DDR2 677 MHz memory, upgradeable to 4GB using two soDIMM modules (dual-channel support)

TV-tuner

- q Acer TV-tuner options:
 - Digital TV-tuner supporting DVB-T (Digital Video Broadcasting Terrestrial) standard (6 MHz to 8 MHz)
- q TV-tuner I/O:
 - RF jack for digital/analog TV antenna cable input
- q TV-tuner cables:
 - PAL cable for digital TV input, PAL/SECAM to NTSC port converter
- q Acer DVB-T antenna (UHF/VHF reception) supporting Acer SignalUp™ wireless technology

Display and graphics

- q 15.4" WXGA high-brightness (220-nits) Acer CrystalBrite™ TFT LCD, 1280 x 800 pixel resolution, supporting simultaneous multi-window viewing via Acer GridVista™
- q 8 ms response time
- q NVIDIA GeForce® 8400M G with up to 1024MB of Turbocache™ (256MB of dedicated GDDR2 VRAM, up to 768MB of share system memory), supporting Microsoft DirectX 9 and DirectX 10,

and PCI Express® (for selected models)

- q NVIDIA GeForce® 8600M GS with up to 1280MB of TurboCache™ technology (512MB of dedicated GDDR2 VRAM, 768MB of share system memory), Microsoft DirectX 9 and DirectX 10 support, PCI Express®
- q NVIDIA GeForce® 7000M with up to 896MB of Turbocache™ (256MB of dedicated system memory, up to 640MB of share system memory), Microsoft DirectX 9 and PCI Express (for selected models)
- q Dual independent display support
- q 16.7 million colors (for selected models)
- q MPEG-2/DVD hardware-assisted capability (full decode) (for selected models)
- q WMV9 (VC-1) and H.264 (AVC) support (full decode) (for selected models)
- q S-video/TV-out (NTSC/PAL) support
- q DVI-D (true digital video interface) with High-bandwidth Digital Content Protection (HDCP) support (for selected models)
- q Acer Arcade™ featuring Acer CinemaVision™ and Acer ClearVision™ technologies

Audio

- q Dolby®-certified surround sound system with two built-in stereo speakers
- q Dolby® Home Theater audio enhancement featuring Dolby® Digital, Dolby® Digital Live, Dolby® PRO LOGIC® II, Dolby® Digital Stereo Creator, Dolby® Headphone and Dolby® Virtual Speaker technologies
- q High Definition Audio support
- q S/PDIF (Sony/Philips Digital Interface) support for digital speakers
- q Dolby® Digital Live and DTS Neo: PC support
- q MS-Sound compatible
- q Built-in microphone

Storage subsystem

- q 80/120/160/200/250 GB or larger hard disk drive
- q Optical drive options:
 - HD-DVD drive (for selected models)
 - DVD-Super Multi double-layer drive (for selected models)
 - DVD/CD-RW combo drive (for selected models)
- q 5-in-1 card reader, supporting Secure Digital (SD), MultiMediaCard (MMC), Memory Stick® (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)

Input devices

- q 88-/89-/93-key keyboard, with inverted "T" cursor layout; 2.5 mm (minimum) key travel
- q Seamless touchpad with 4-way scroll button
- q 12 function keys, four cursor keys, two Windows® keys, hotkey controls, embedded numeric keypad, international language support, independent US and Euro dollar sign keys, media control keys
- q Four media control keys: play/pause, stop, next, previous
- q Empowering Key
- q Easy-launch buttons: WLAN, Internet, email, Bluetooth, Acer Arcade™
- q Volume wheel

Communication

- q Acer Video Conference, featuring:

- Integrated Acer Crystal Eye webcam, supporting Acer PrismaLite™ technology (for selected models)
- Acer Xpress VoIP phone (for selected models)
- q WLAN: Acer InViLink™ 802.11b/g Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ wireless technology
- q WPAN: Bluetooth® 2.0+EDR (Enhanced Data Rate) (for selected models)
- q LAN: Gigabit Ethernet; Wake-on-LAN ready
- q Modem: 56K ITU V.92 with PTT approval; Wake-on-Ring ready

I/O Ports

- q ExpressCard™/54 slot
- q 5-in-1 card reader (SD™/MMC/MS/MS PRO/xD)
- q Four USB 2.0 ports
- q DVI-D port with HDCP support (for selected models)
- q IEEE 1394 port
- q Consumer infrared (CIR) port
- q External display (VGA) port
- q S-video/TV-out (NTSC/PAL) port
- q RF-in jack (for selected models)
- q AV-in port (for selected models)
- q Headphones/speaker/line-out port with S/PDIF support
- q Microphone-in jack
- q Line-in jack
- q Ethernet (RJ-45) port
- q Modem (RJ-11) port
- q DC-in jack for AC adapter

Options and accessories

- q Acer Xpress VoIP phone featuring Acer Video Conference Manager
- q Acer Media Center remote control
- q 512 MB, 1 or 2GB DDR2 667 MHz soDIMM modules
- q 8-cell Li-ion battery pack
- q 3-pin 90 W AC adapter
- q External USB floppy disk drive

Software

- q Acer Empowering Technology (Acer eNet, ePower, eAudio , ePresentation, eDataSecurity (for selected models), eLock, eRecovery, eSettings Management)
- q Acer Arcade™ featuring Cinema, Video, Album, Music, AcerHomeMedia
- q Acer Arcade Deluxe™ featuring DV Wizard, SportsCap, VideoMagician, DVDivine and Acer HomeMedia
- q Acer Crystal Eye
- q Acer GridVista™
- q Acer GameZone™
- q Acer Launch Manager
- q Acer Video Conference Manager
- q Adobe® Reader®

-
- q CyberLink® PowerProducer®
 - q Norton Internet Security™
 - q NTI CD-Maker™
 - q Microsoft Works 8.5 with Office Home and Student 2007 Trial

NOTE: Software listed above is for reference only. The exact configuration of your PC depends on the model purchased.

Environment

- q Temperature:
 - Operating: 5°C to 35°C
 - Non-operating: -20°C to 65°C
- q Humidity (non-condensing):
 - Operating: 20%~80%
 - Non-operating: 20%~80%

Environment

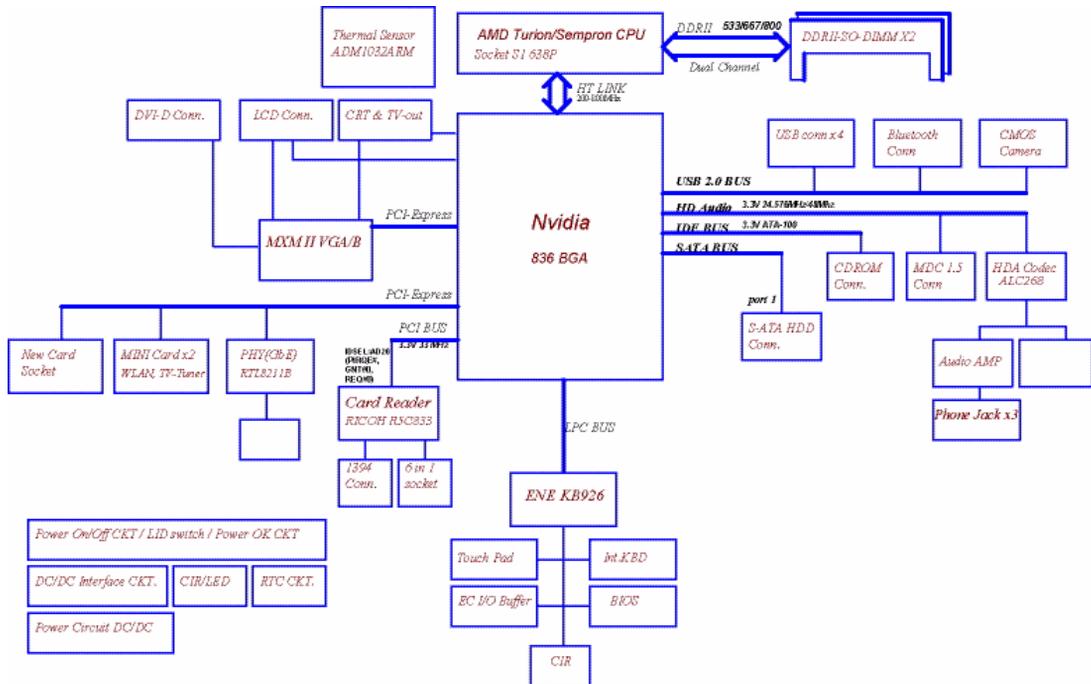
- q Wi-Fi
- q ACPI
- q Mobile PC 2002
- q DMI 2.0

Environment

- q One-year International Travelers Warranty (ITW)

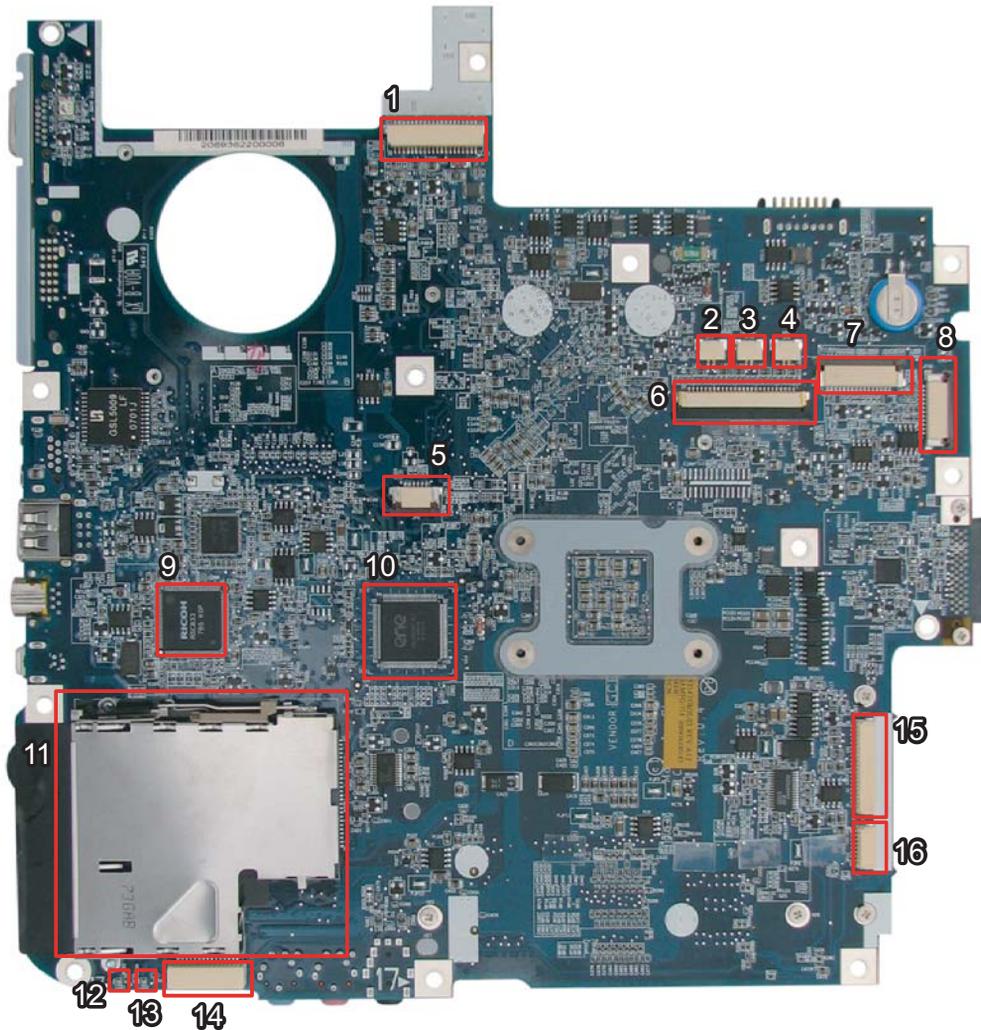
NOTE: The specifications listed above are for reference only. The exact configuration of your PC depends on the model purchased.

System Block Diagram



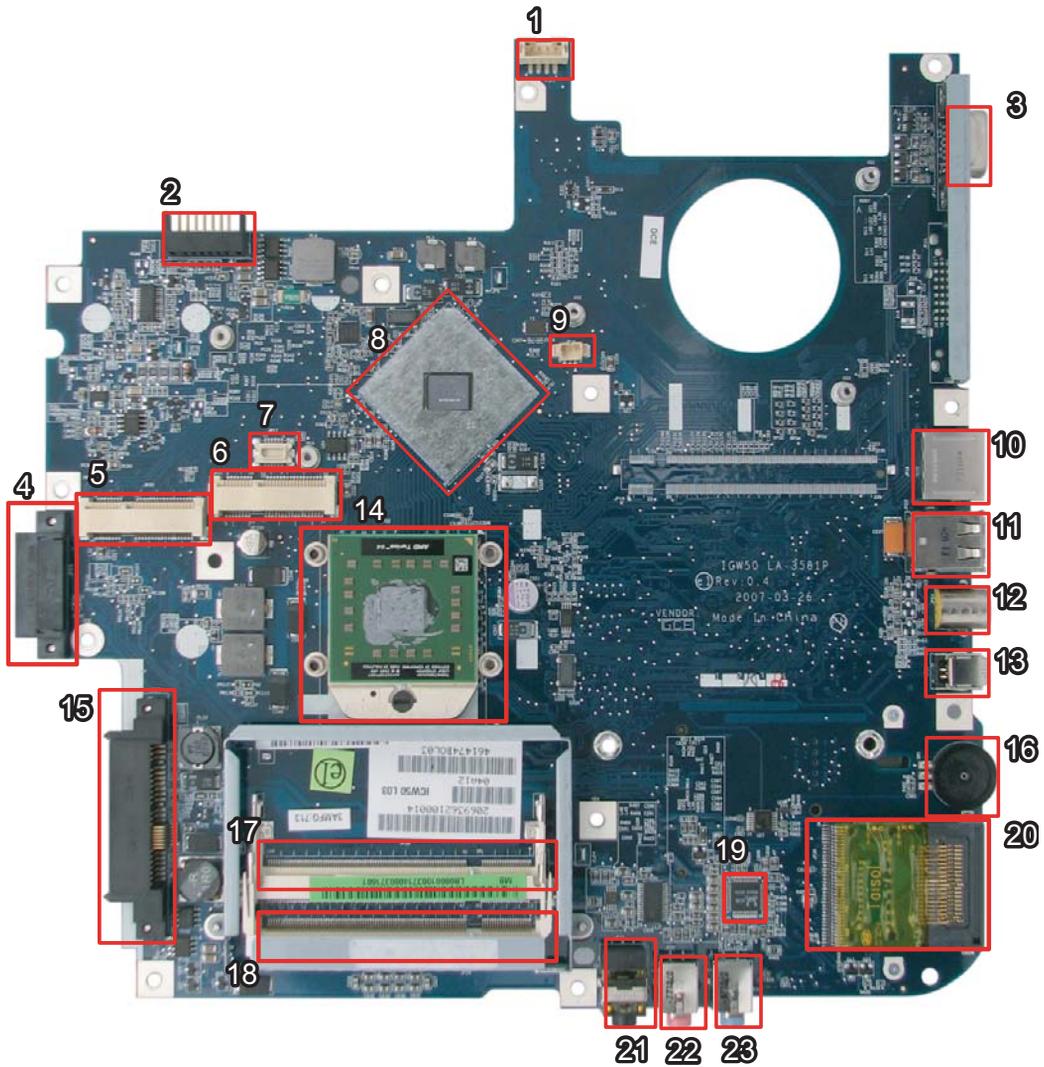
Board Layout

Top View



1	JP1	LVDS Connector	9	U14	
2	JP3	Speaker (Left) Connector	10	U15	
3	JP34	Speaker (Right) Connector	11	JP9	PCI Express Card Socket
4	JP4	Microphone Connector	12	LED1	Power/Suspend LED
5	JP6	Touchpad Connector	13	LED2	Battery Charge/Discharge LED
6	JP5	Keyboard Connector	14	JP13	Mainboard to Audio Board Connector
7	JP2	Button Board Connector	15	JP11	Mainboard to USB & TV Board Connector
8	JP36	LED Board Connector	16	JP12	Bluetooth Module Connector

Bottom View

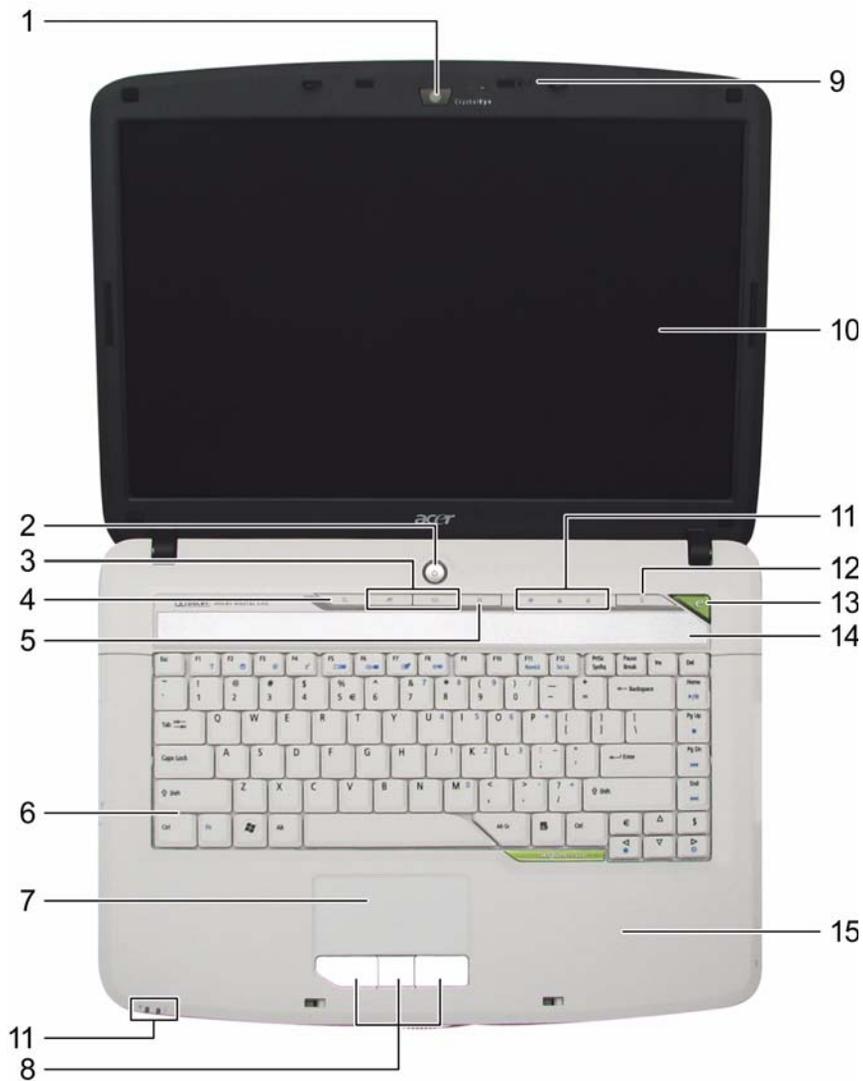


1	PJP1	DC-in Power Jack	13	JP26	IEEE1394 Connector
2	PJP2	Battery Connector	14	JP22	CPU Socket
3	JP14	D-Sub CRT Connector	15	JP27	SATA HDD Connector
4	JP25	ODD Connector	16	SW1	Volume Control
5	JP20	Mini Card (TV-Tuner) Connector	17	JP28	DDRII Memory Socket
6	JP20	Mini Card (WLAN) Connector	18	JP29	DDRII Memory Socket
7	JP21	Mini Card (TV-Tuner) Socket	19	U29	Audio Codec Controller
8	U23	North Bridge	20	JP30	Memory Card Reader
9	JP16	Internal Fan Connector	21	JP31	Line-Out/Headphone/SPDIF Jackt
10	JP18	RJ45 (LAN) Connector	22	JP32	Mic-in Jack
11	JP23	USB (Dual) Connectors	23	JP33	Line-in Jack
12	JP24	S-video/TV-out Connector			

Your Acer Notebook Tour

After knowing your computer features, let us show you around your new Aspire computer.

Front View



#	Icon	Item	Description
1		Built-in camera	0.3 megapixel web camera for video communication.
2		Power button	Turns the computer on and off.
3		Easy-launch buttons	Buttons for launching frequently used programs.
4		Wireless communication button/indicator	Enables/disables the wireless function. Indicates the status of wireless LAN communication.
5		Bluetooth® communication button/indicator	Enables/disables the Bluetooth® function. Indicates the status of Bluetooth communication.

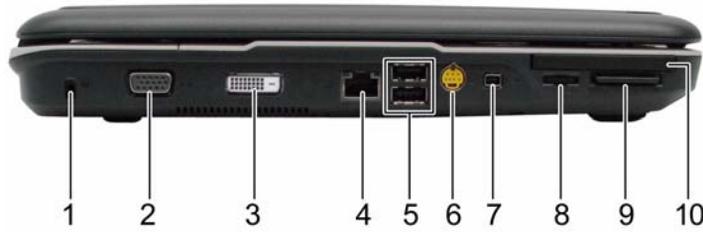
6		Keyboard	For entering data into your computer.
7		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
8		Click buttons (left, center, and right)	The left and right buttons function like the left and right mouse buttons.
9		Microphone	Internal microphone for sound recording.
10		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
11		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
12		Empowering button	Launches the Empowering Technology toolbar.
13		Speaker	Left and right speakers deliver stereo audio output.
14		Palmrest	Comfortable support area for your hands when you use the computer.

Closed Front View



#	Icon	Item	Description
1		Power indicator	Indicates the computer's power status.
2		Battery indicator	Indicates the computer's battery status.
3		Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman).
4		Microphone-in jack	Accepts input from external microphones.
5		Headphones/speaker/line-out jack with S/PDIF support	Connects to audio line-out devices (e.g., speakers, headphones).
6		Infrared port	Interfaces with infrared devices (e.g. infrared printer and IR-aware computer).

Left View



#	Icon	Item	Description
1		Kensington lock slot	Connects to a Kensington-compatible computer security lock.
2		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
3		Ethernet (RJ-45)	Connects to an Ethernet 10/100/1000-based network (for selected models).
4		2 USB 2.0 port	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
5		S-video/TV-out (NTSC/PAL) port	Connects to a television or display device with S-video input.
6		4-pin IEEE 1394 port	Connects to IEEE 1394 devices.
7		Volume control	Increases and decreases the volume.
8		5-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xD-Picture Card (xD).
9		PCI Express Card slot	Accepts an Express Card/54 module. Note: Express Cards are third generation of PC cards, hot-swappable and smaller than previous PC Cards. Designed for both desktop and mobile use, Express Cards use either USB 2.0 or a single lane PCI Express technology that provides 500 Mbytes/sec total throughput. Formerly code named "NEWCARD," Express Cards are 5mm thick like Type II PC Cards, but do not use the same 86x54mm footprint. Express Cards come in 75x54mm and 75x34mm sizes. Express Card/54 slot means this notebook accepts 75x54mm Express Cards.

Right View



#	Icon	Item	Description
1		2 USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
2		Optical drive	Internal optical drive; accepts CDs or DVDs (slot-load or tray-load depending on model).
3		Optical disk access indicator	Lights up when the optical drive is active.
4		Optical drive eject button	Ejects the optical disk from the drive.
5		Emergency eject hole	Ejects the optical drive tray when the computer is turned off.
6		Modem (RJ-11) port	Connects to a phone line.

Rear view



#	Icon	Item	Description
1		DC-in jack	Connects to an AC adapter.
2		Ventilation slots	Enable the computer to stay cool, even after prolonged use.

Base view



#	Item	Description
1	Battery bay	Houses the computer's battery pack.
2	Battery release latch	Releases the battery for removal.
3	Battery lock	Locks the battery in position.
4	Hard disk bay	Houses the computer's hard disk (secured with screws)
5	Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. Note: Do not cover or obstruct the opening of the fan.

Indicators

The computer has several easy-to-read status indicators.



The front panel indicators are visible even when the computer cover is closed.

Icon	Function	Description
	Power	Lights up when the computer is on.
	Battery	Lights up when the battery is being charged.
	Wireless LAN	Indicates the status of wireless LAN communication.
	Bluetooth	Indicates the status of Bluetooth communication.
	HDD	Indicates when the hard disc or optical drive is active.
	Num lock	Lights when Num Lock is activated.
	Cap lock	Lights when Cap Lock is activated

NOTE: 1. **Charging:** The light shows amber when the battery is charging. 2. **Fully charged:** The light shows green when in AC mode.

Easy-Launch Buttons

To the top of the keyboard there are four easy-launch buttons: Web browser, mail, arcade buttons and an Empowering Key “*e*”.

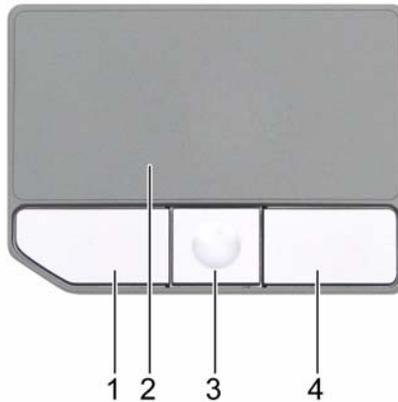
Press “*e*” to run the Acer Empowering Technology. The mail and Web browser buttons are pre-set to email and Internet programs, but can be reset by users. To set the Web browser and mail buttons, run the Launch Manager.



Launch Button	Default application
e	Acer Empowering Technology (user-programmable)
Web browser	Internet browser (user-programmable)
Mail	Email application (user-programmable)
Arcade	Windows Media Center

Touchpad Basics

The following teaches you how to use the touchpad:



- q Move your finger across the touchpad (2) to move the cursor.
- q Press the left (1) and right (4) buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.
- q The center (3) button to mimics your cursor pressing on the right scroll bar of Windows applications.

Function	Left Button (1)	Right Button (4)	Main touchpad (2)	Center button (3)
Execute	Click twice quickly		Tap twice (at the same speed as double-clicking the mouse button)	
Select	Click once		Tap once	
Drag	Click and hold, then use finger on the touchpad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the touchpad on the second tap and drag the cursor.	
Access context menu		Click once		
Scroll				Click and hold to move up/down/left/right.

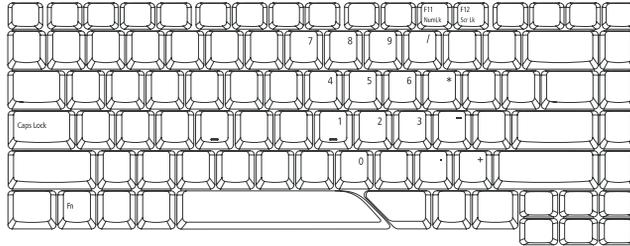
NOTE: When using the touchpad, keep it - and your fingers - dry and clean. The touchpad is sensitive to finger movements; hence, the lighter the touch, the better the response. Tapping too hard will not increase the touchpad's responsiveness.

Using the Keyboard

The keyboard has full-sized keys and an embedded keypad, separate cursor keys, one Windows key and twelve function keys.

Lock Keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.



Lock Key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num lock <Fn>+<F11>	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll lock <Fn>+<F12>	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired Access	Num Lock On	Num Lock Off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <Shift> while using cursor-control keys.	Hold <Fn> while using cursor-control keys.
Main keyboard keys	Hold <Fn> while typing letters on embedded keypad.	Type the letters in a normal manner.

Windows Keys

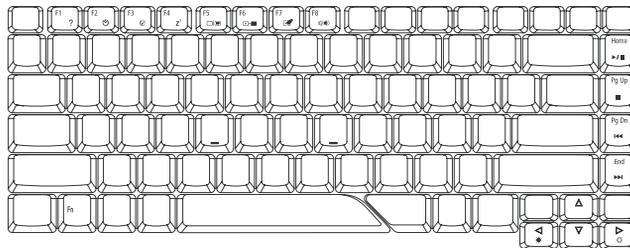
The keyboard has one key that performs Windows-specific functions.

Key	Icon	Description
Windows key 		<p>Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of function:</p> <ul style="list-style-type: none">  + <Tab> Activates next taskbar button.  + <E> Opens the My Computer window  + <F1> Opens Help and Support.  + <F> Opens the Search: All Files dialog box.  + <R> Opens the Run dialog box.  + <M> Minimizes all windows. <p><Shift>+  + <M> Undoes the minimize all windows action.</p>
 Application key		This key has the same effect as clicking the right mouse button; it opens the application's context menu.

Hot Keys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output, and the BIOS utility.

To activate hot keys, press and hold the <Fn> key before pressing the other key in the hotkey combination.



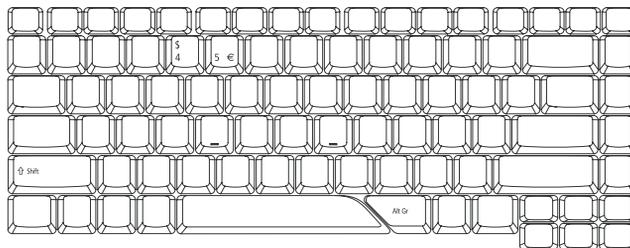
Hot Key	Icon	Function	Description
<Fn>+<F1>	?	Hot key help	Displays help on hot keys.
<Fn>+<F2>		Acer eSettings	Launches the Acer eSettings in Acer eManager.
<Fn>+<F3>		Acer ePower Management	Launches the Acer ePower Management in Acer Empowering Technology. See "Acer Empowering Technology" on page 19.
<Fn>+<F4>	Zz	Sleep	Puts the computer in Sleep mode.

Hot Key	Icon	Function	Description
<Fn>+<F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn>+<F6>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<Fn>+<F7>		Touchpad toggle	Turns the internal touchpad on and off.
<Fn>+<F8>		Speaker toggle	Turns the speakers on and off.
<Fn>+<x>		Brightness up	Increases the screen brightness.
<Fn>+<z>		Brightness down	Decreases the screen brightness
<Fn>+<Home>		Play/Pause	Plays or pauses the media.
<Fn>+<Pg Up>		Stop	Stops the media playing.
<Fn>+<Pg Dn>		Previous	Returns to previous media file.
<Fn>+<End>		Next	Jumps to next media file.

Special Key

You can locate the Euro symbol and US dollar sign at the upper-center and/or bottom-right of your keyboard.

To type:



The Euro symbol

1. Open a text editor or word processor.
2. Either directly press the <€> symbol at the bottom-right of the keyboard, or hold <Alt Gr> and then press the<5> symbol at the upper-center of the keyboard.

NOTE: Some fonts and software do not support the Euro symbol. Please refer to www.microsoft.com/typography/faq/faq12.htm for more information.

The US dollar sign

1. Open a text editor or word processor.
2. Either directly press the < \$ > key at the bottom-right of the keyboard, or hold <Shift> and then press the <4> key at the upper-center of the keyboard.

NOTE: This function varies by the operating system version.

Acer Empowering Technology

Acer's innovative Empowering Technology makes it easy for you to access frequently used functions and manage your new Acer notebook. It features the following handy utilities:

- q **Acer eNet Management** hooks up to location-based networks intelligently.
- q **Acer ePower Management** extends battery power via versatile usage profiles.
- q **Acer ePresentation Management** connects to a projector and adjusts display settings conveniently.
- q **Acer eDataSecurity Management** protects data with passwords and advanced encryption algorithms.
- q **Acer eLock Management** limits access to external storage media.
- q **Acer eRecovery Management** backs up and recovers data flexibly, reliably and completely.
- q **Acer eSettings Management** accesses system information and adjusts settings easily.
- q **Acer ePerformance Management** improves system performance by optimizing disk space, memory and registry settings.



For more information, press the < *e* > key to launch the Empowering Technology toolbar, then click on the appropriate utility and select the Help or Tutorial function.

Empowering Technology password

Before using Acer eLock Management and Acer eRecovery Management, you must initialize the Empowering Technology password. Right-click on the Empowering Technology toolbar and select "Password Setup" to do so. If you do not initialize the Empowering Technology password, you will be prompted to do so when running Acer eLock Management or Acer eRecovery Management for the first time.

Acer eNet Management

Acer eNet Management helps you to quickly and easily connect to both wired and wireless networks in a variety of locations. To access this utility, either click on the "**Acer eNet Management**" icon on your notebook, or start the program from the Start menu. You also have the option to set Acer eNet Management to start automatically when you boot up your PC.

Acer eNet Management automatically detects the best settings for a new location, while offering you the freedom to manually adjust the settings to match your needs.



Acer eNet Management can save network settings for a location to a profile, and automatically switch to the appropriate profile when you move from one location to another. Settings stored include network connection settings (IP and DNS settings, wireless AP details, etc.), as well as default printer settings.

Security and safety concerns mean that Acer eNet Management does not store username and password information.



Acer ePower Management

Acer ePower Management features a straightforward user interface. To launch it, select Acer ePower Management from the Empowering Technology interface.

AC Mode (Adapter mode)

The default setting is “Maximum Performance.” You can adjust CPU speed, LCD brightness and other settings, or click on buttons to turn the following functions on/off: Wireless LAN, Bluetooth, CardBus, FireWire (1394), Wired LAN and Optical Device if supported.

DC Mode (Battery mode)

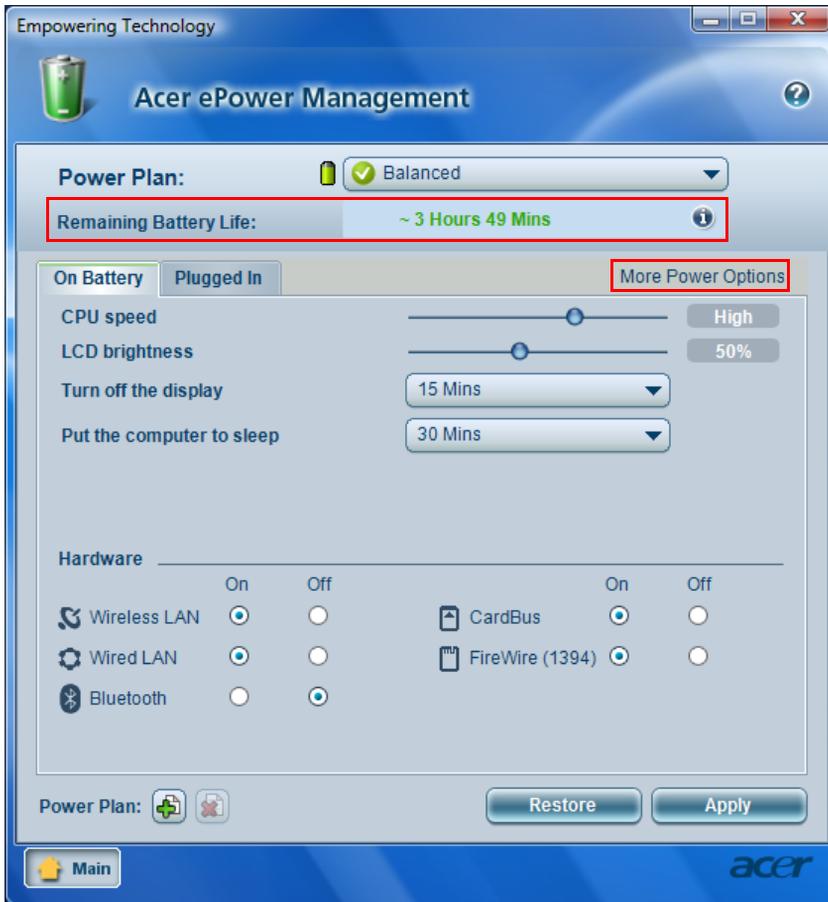
There are three pre-defined profiles - Balanced, Power Saver, and High Performance. You can also define the power plan optimized for your needs.

To create new power plan

1. Select a predefined power plan and click the “” icon shown on the lower left-hand side.
2. Enter the name for the newly created power plan.
3. Select one of the predefined power plan that is closest to what you want.
4. Change the display and sleep settings as desired.
5. Click “OK” to apply the setting.
6. A new power plan is created.

Battery status

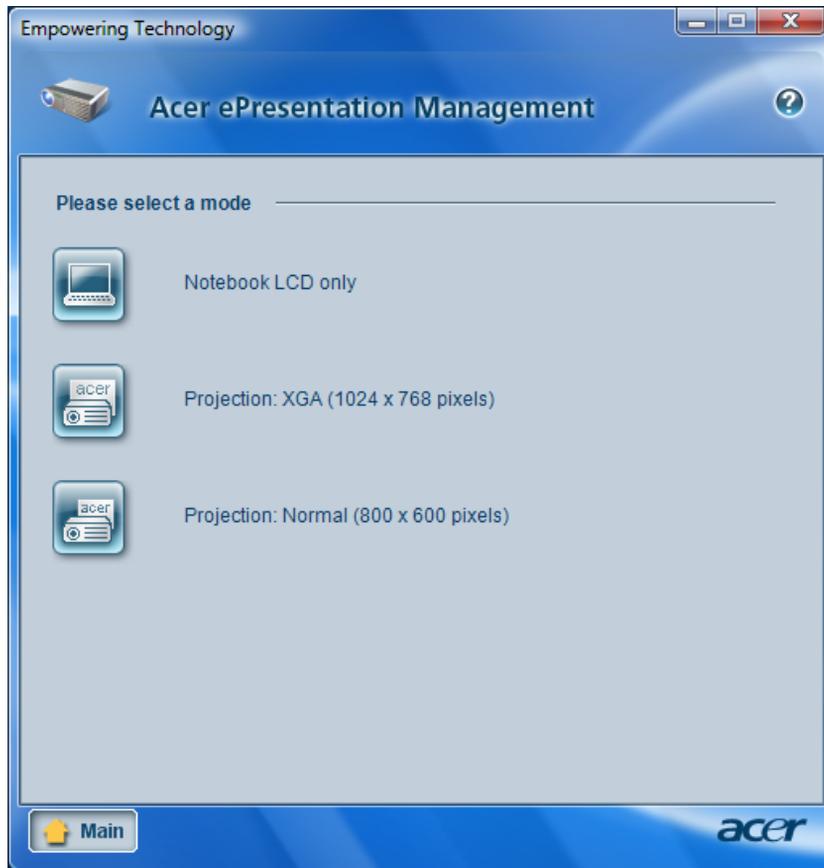
For real-time battery life estimates based on current usage, refer to the time shown in the “Remaining Battery Life” field.



For additional power options, click “**More Power option**”.

Acer ePresentation Management

Acer ePresentation Management lets you project your computer's display to an external device or project using the hot key: Fn + F5. If auto-detection hardware is implemented in the system, your system display will be automatically switched out when an external display is connected to the system.



Acer eDataSecurity Management

Acer eDataSecurity Management is handy file encryption utility that protects your files from being accessed by unauthorized persons. It is conveniently integrated with Windows explorer as a shell extension for quick and easy data encryption/decryption and also supports on-the-fly file encryption for MSN Messenger and Microsoft Outlook.

The Acer eDataSecurity Management setup wizard will prompt you for a supervisor password and default encryption. This encryption will be used to encrypt files by default, or you can choose to enter your won file-specific password when encrypting a file.

NOTE: The password used to encrypt a file is the unique key that the system needs to decrypt it. If you lose the password, the supervisor password is the only other key capable of decrypting the file. If you lose both passwords, there will be no way to decrypt your encrypted file! **Be sure to safeguard all related passwords!**

