

Product: 2006 Acer Aspire 5110/5100/3100 Laptop Service Repair Workshop Manual  
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# Acer

## Aspire 5110/5100/3100 Service Guide

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# Revision History

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Please refer to the table below for the updates of Aspire 5110/5100/3100 service guide.

Date	Chapter	Updates

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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.

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# 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, you should check the most up-to-date information available on your regional web or channel. For whatever reason, if 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.

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# System Specification

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## Features

### Platform

- AMD Turion™ 64 X2 dual-core TL-50/TL-52/TL-56/TL-60/TL-62 processor or higher with 1MB L2 cache, supporting AMD PowerNow!™ Technology and AMD HyperTransport™ Technology
- Mobile AMD Sempron™ 3200+/3400+/3500+ or higher with 512KB L2 cache, supporting AMD PowerNow!™ Technology and AMD HyperTransport™ Technology, 64bit OS support
- ATI Radeon® Xpress 1100 or Xpress 1200 chipset

### System Memory

- Up to 2GB of DDR2 533/667MHz memory, upgradeable to 4GB using two soDIMM modules (dual-channel support)

### Display

- 15.4" WXGA Acer CrystalBrite™ TFT LCD, 1280 x 800 pixel resolution, 16 ms response time, supporting simultaneous multi-window viewing on dual displays via Acer GridVista™
- 15" XGA colour TFT LCD, 1024 x 768 pixel resolution

### Graphics

- ATI Radeon® Xpress 1100 chipset with integrated 3D graphics, up to 256MB of shared system memory
- ATI Mobility™ Radeon® X1300/X1600 with up to 512MB of HyperMemory™ (64MB of dedicated GDDR2 VRAM; up to 448MB of shared system memory), supporting ATI PowerPlay™ 5.0, Microsoft® DirectX® 9.0, PCI Express®, DualView™ support
- 16.7 million colours
- MPEG-2/DVD hardware-assisted capability
- S-video/TV-out (NTSC/PAL) support (**for selected models**)
- Acer Arcade™, featuring Acer CinemaVision™ and Acer ClearVision™ technology

### TV-Tuner

- Acer TV-tuner options (**for selected models**):
  - Analog TV-tuner supporting hardware MPEG-2 stream encoding
  - Digital and analog hybrid TV-tuner supporting hardware MPEG-2 stream encoding
  - Digital and analog hybrid TV-tuner supporting software MPEG-2 stream encoding
- Analog TV-tuner supporting international analog TV standards (NTSC/PAL/SECAM)
- Digital TV-tuner supporting DVB-T (Digital Video Broadcasting Terrestrial) standard (6MHz to 8MHz) TV-tuner I/O:

- 
- RF jack for digital/analog TV antenna cable input
  - AV-in port for composite/S-video/line-in audio/video input
  - TV-tuner cables:
    - NTSC/PAL cable for digital/analog TV input, NTSC converter to convert port from PAL/SECAM to NTSC
    - Mini DIN cable: RCA jack and S-video port for audio/video input
  - Acer DVB-T antenna (UHF/VHF reception) supports Acer SignalUp™ wireless technology

## Audio

- High Definition audio support
- S/PDIF (Sony/Philips Digital Interface) support for digital speakers **(for selected models)**
- Audio system with two built-in speakers
- Sound Blaster Pro™ and MS Sound compatible
- Built-in microphone

## Storage Subsystem

- 40/60/80/100/120GB or higher ATA/100 hard disk drive
- Optical drive options:
  - DVD-Super Multi double-layer drive
  - DVD/CD-RW combo drive
- 5-in-1 card reader, supporting Secure Digital (SD), MultiMediaCard (MMC), Memory Stick® (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD) **(for selected models)**

## Communication

- Acer Video Conference featuring Voice and Video over Internet Protocol (VVoIP) support via Acer OrbiCam™ and optional Acer Bluetooth® VoIP phone **(for selected models)**
- Acer OrbiCam™ integrated 310,000 pixel CMOS camera **(for selected model)** featuring:
  - 225 degree ergonomic rotation
  - Acer PrimaLite™ technology
- Modem: 56K ITU V.92 with PTT approval; Wake-on-Ring ready
- LAN: gigabit or Fast Ethernet; Wake-on-LAN ready
- WPAN: Bluetooth® 2.0 + EDR (Enhanced Data Rate)
- WLAN: Acer InViLink™ 802.11b/g or 802.11a/b/g Wi-Fi CERTIFIED™ solution, supporting Acer SignalUp™ wireless technology

## Special Keys and Controls

- 88/89-key keyboard, with inverted “T” cursor layout; 2.5 mm (minimum) key travel, international language support
- Touch pad with 4-way scroll button
- 12 function keys, four cursor keys, two Windows® keys, hotkey controls, embedded numeric keypad
- Four easy-launch buttons: Empowering Key, email, Internet and user-programmable button
- Six/Seven media keys: TV, volume up, volume down, play/pause, stop, previous, next **(for selected**

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### models)

- Two communication switches: WLAN, Bluetooth®
- Acer remote controls (**for selected models**):
  - Acer Arcade™ (48 keys)
  - Windows® Media Center Edition (Uses an external USB CIR receiver)

## I/O Interface

- ExpressCard™ /34 slot (**for selected models**)
- PC Card slot (one Type II)
- 5-in-1 card reader (SD/MMC/MS/MS PRO/xD) (**for selected models**)
- Four USB 2.0 ports (**three for selected models**)
- DVI-D port (**for selected models**)
- IEEE 1394 port (**for selected models**)
- Consumer infrared (CIR) port (**for selected models**)
- External display (VGA) port
- AV-in port (**for selected models**)
- RF-in jack (**for selected models**)
- S-video/TV-out (NTSC/PAL) port (**for selected models**)
- Headphones/speaker/line-out jack with S/PDIF support (**for selected models**)
- Microphone-in jack
- Line-in jack
- Ethernet (RJ-45) port
- Modem (RJ-11) port
- DC-in jack for AC adapter

## Power Subsystem

- ACPI 2.0 CPU power management standards: Stand-by and Hibernation power-saving modes support
- 71W 4800mAh (8-cell) Li-ion battery pack
- 44W 4000mAh (6-cell) Li-Ion battery
- 29.6W 2000mAh (4-cell) Li-ion battery
- Acer QuicCharge™ technology: 80% charge in 1 hour; 2-hour rapid charge system-off; 2.5-hour charge-in-use

**NOTE:** Only support for SKU with 90W adapter.

- 3-pin 65/90W AC adapter

## Dimensions and Weight

### Aspire 5110

- 358 (W) x 269 (D) x 29.8/33.8 (H) mm (14.1 x 10.6 x 1.17/1.33 inches)
- 3.0 kg (6.61 lbs.) for 15.4" LCD model with TV module
- 2.92 kg (6.44 lbs.) for 15.4" LCD model without TV module

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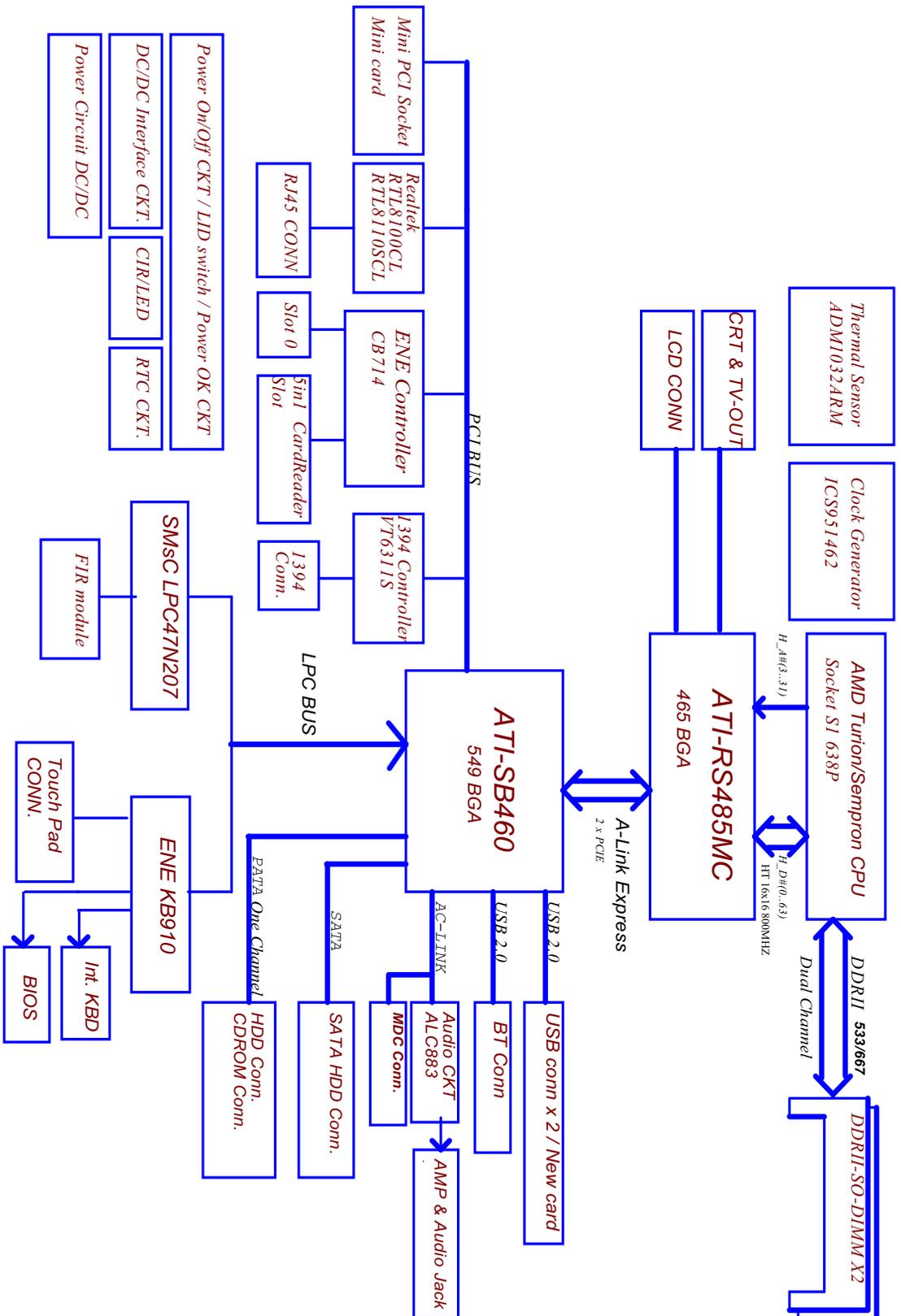
## **Aspire 5100/3100 Series**

- 358 (W) x 269 (D) x 29.8/33.8 (H) mm (14.1 x 10.6 x 1.17/1.33 inches)
- 2.82 kg (6.22 lbs.) for 15.4" LCD model
- 2.78 kg (6.13 lbs.) for 15" LCD model

## **Environment**

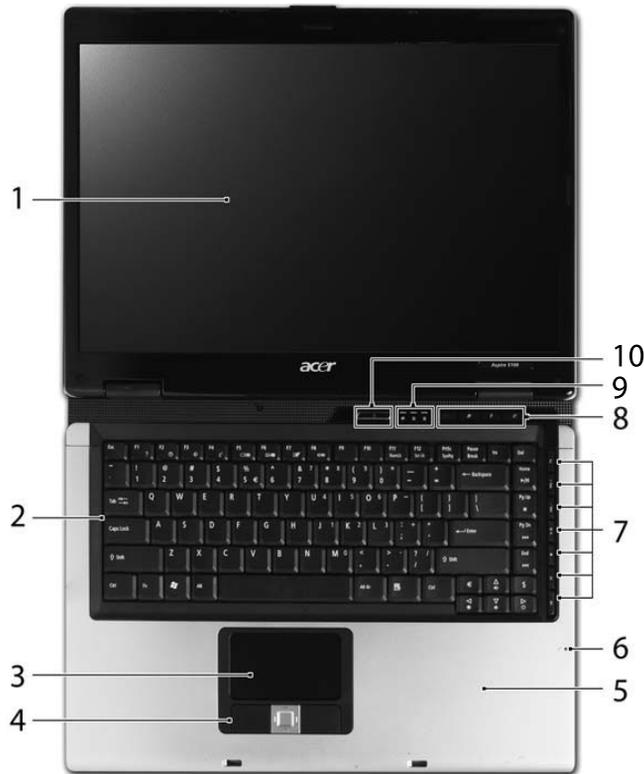
- Temperature:
  - Operating: 5 °C to 35 °C
  - Non-operating: -20 °C to 65 °C
- Humidity (non-condensing):
  - Operating: 20% to 80%
  - Non-operating: 20% to 80%

# Block Diagram



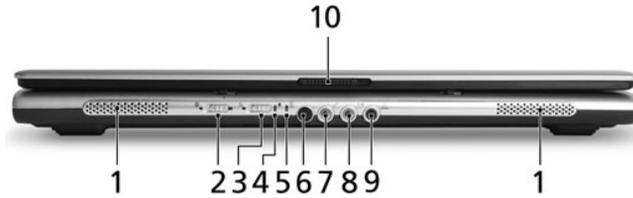
# Outlook Tour

## Front View



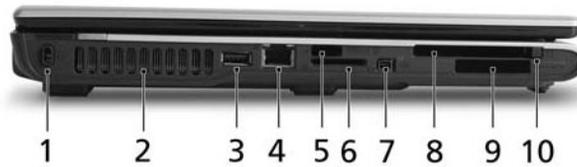
#	Item	Description
1	Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
2	Keyboard	Serves for entering data into your computer.
3	Touchpad	Touch-sensitive pointing device which functions like a computer mouse
4	Click buttons (left, center and right)	The left and right buttons function like the left and right mouse buttons; the center button serves as a four-way scroll button.
5	Palmrest	Comfortable support area for your hands when you use the computer.
6	Microphone	Internal microphone for sound recording.
7	TV/media/volume buttons	For use with Acer Arcade and other media playing programs ( <b>for selected models</b> ).
8	Easy-launch buttons	Buttons for launching frequently used programs.
9	Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
10	Power button	Turns the computer on and off.

## Closed Front View



#	Icon	Item	Description
1	N/A	Speakers	Left and right speakers deliver stereo audio output.
2		Bluetooth communication button/indicator	Enables/disables the Bluetooth communication. Indicates the status of Bluetooth communication ( <b>for selected models</b> ).
3		Wireless communication button/indicator	Enables/disables the wireless function. Indicates the status of wireless LAN communication.
4		Power indicator	Indicates the computer's power status.
5		Battery indicator	Indicates the computer's battery status.
6		CIR receiver	Receives signals from a remote control ( <b>for selected models</b> ).
7		Microphone-in jack	Accepts input from external microphones.
8		Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman).
9		Headphones/speaker/line-out jack with S/PDIF support	Connects to audio line-out devices (e.g., speakers, headphones).
10	N/A	Latch	Locks and releases the lid.

## Left View



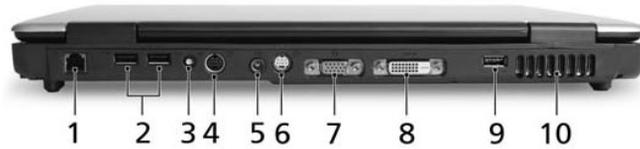
#	Icon	Item	Description
1		Kensington lock slot	Connects to a Kensington-compatible computers security lock.
2	N/A	Ventilation slots	Enable the computer to stay cool, even after prolonged use.
3		Three USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
4		Ethernet (RJ-45) port	Connects to an Ethernet 10/100-based or 10/100/1000-based networks.
5		Infrared port	Interfaces with infrared devices (e.g., infrared printer and IR-aware computer) <b>(optional)</b> .
6		5-in-1 card reader	Accepts Memory Stick (MS), Memory Stick Pro (MS PRO), MultiMediaCard (MMC), Secure Digital (SD) and xD-Picture Card (xD) <b>(optional)</b> .
7		4-pin IEEE 1394 port	Connects to IEEE 1394 devices <b>(optional)</b> .
8		PC Card slot	Accepts one Type II PC Card.
9	ExpressCard/34	ExpressCard/34 slot	Accepts one ExpressCard/34 module <b>(optional)</b> .
10	N/A	PC Card slot eject button	Ejects the PC Card from the slot.

## Right View



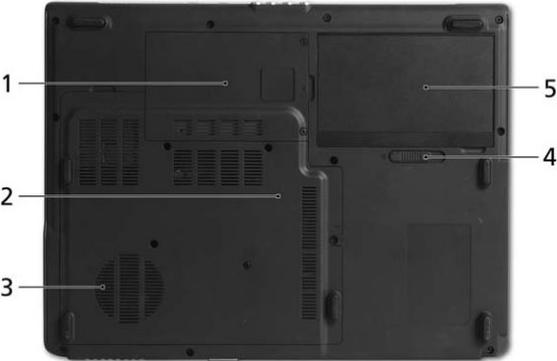
#	Item	Description
1	Optical disk drive	Internal optical drive; accepts CDs or DVDs.
2	Optical disk access indicator	Lights up when the optical disk drive is active.
3	Optical disk drive eject button	Ejects the drive tray from the drive.
4	Emergency eject hole	Ejects the drive tray when the computer is turned off.

## Rear View



#	Icon	Item	Description
<b>Aspire 5110 / 5100 / 3100 Series</b>			
1		Modem (RJ-11) port	Connects to a phone line.
2		Two USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
3	RF	RF-in jack	Accepts input signals from analog/digital TV-tuner devices ( <b>for selected models</b> ).
4	AV-IN	AV-in port	Accepts input signals from audio/video (AV) devices ( <b>for selected models</b> ).
5		Power jack	Connects to an AC adapter.
6		S-video port/TV out port (NTSC/PAL) port	Connects to a television or display device with S-video input ( <b>for selected models</b> ).
7		External display (VGA) port	Connects to an external display device (e.g., external monitor, LCD projector).
8	DVI-D	DVI-D port	Supports digital video connections ( <b>for selected models</b> ).
9		USB 2.0 port	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
10	N/A	Ventilation slots	Enable the computer to stay cool, even after prolonged use.

# Base View



#	Item	Description
1	Hard disk bay	Houses the computer's hard disk (secured with screws).
2	Memory compartment	Houses the computer's main memory.
3	Ventilation slots and cooling fan	Helps keep the computer cool. <b>NOTE:</b> Do not cover or obstruct the opening of the fan.
4	Battery lock	Locks the battery in position.
5	Battery bay	Houses the computer's battery pack.

# Using the Keyboard

The full-sized keyboard includes an embedded numeric keypad, separate cursor, lock, Windows, function and special 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 are typed in uppercase.
Num Lock <Fn> + <F11>	When Num Lock is on, the right hand side numeric keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). When Num Lock is off, the keys assume cursor and other shortcut functions.
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.	N/A
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 two keys that perform Windows-specific functions.

Key	Icon	Description
Windows key		<p>Press 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 functions:</p> <ul style="list-style-type: none"> <li> + &lt;Tab&gt;: Activates the next Taskbar button.</li> <li> + &lt;E&gt;: Opens the My Computer window.</li> <li> + &lt;F1&gt;: Opens Help and Support.</li> <li> + &lt;F&gt;: Opens the Find (All Files dialog box).</li> <li> + &lt;R&gt;: Opens the Run dialog box.</li> <li> + &lt;M&gt;: Minimizes all windows.</li> </ul> <p>&lt;Shift&gt; +  + &lt;M&gt;: 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.

## Hotkeys

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 hotkeys, 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 hotkeys.
<Fn> + <F2>		Acer eSettings	Launches the Acer eSettings in Acer Empowering Technology.
<Fn> + <F3>		Acer ePower Management	Launches the Acer ePower Management in Acer Empowering Technology.
<Fn> + <F4>		Sleep	Leads the computer to Sleep mode.

Hot Key	Icon	Function	Description
<Fn> + <F5>		Display toggle	Switches the display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Screen blank	Turns off the display screen backlight 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> + <↑>		Volume up	Increases the sound volume.
<Fn> + <↓>		Volume down	Decreases the sound volume.
<Fn> + <→>		Brightness up	Increases the screen brightness.
<Fn> + <←>		Brightness down	Decreases the screen brightness.

## Special keys

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



### The Euro Symbol

1. Open a text editor or word processor.
2. Either directly press the <Euro> key on the bottom-right side of the keyboard, or hold <Alt Gr> key then press the number <5> key on the upper-center side of the keyboard.

**NOTE:** Some fonts and software do not support the Euro symbol. Please refer to [www.microsoft.com/typography/faq/faq12.htm](http://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 on the bottom-right side of the keyboard, or hold <Shift> and then press the US dollar sign on the number <4> key.

**NOTE:** This function varies according to the language settings.

# Indicators

The computer has several easy-to-read status indicators. The front panel indicators are visible even when the computer cover is closed up.



Icon	Item	Description
	HDD	Indicates when the hard disk drive is active.
	Caps Lock	Lights up when Caps Lock is activated.
	Num Lock	Lights up when Num Lock is activated.
	Power	Lights when the computer is on.
	Battery	Lights when the battery is being charged.
	Bluetooth	Indicates the status of Bluetooth communication
	Wireless LAN	Indicates the status of wireless LAN communication

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# Easy-launch Buttons

There are several conveniently located easy-launch buttons. They are one user-programmable button, web browser button, mail button, and Acer Empowering Key *e*. Press *e* to run the Acer Empowering Technology. Although the mail and web browser buttons are pre-set to E-mail and Internet programs, they can be redefined by users. To set the web browser, mail and programmable buttons, run the Acer Launch Manager.



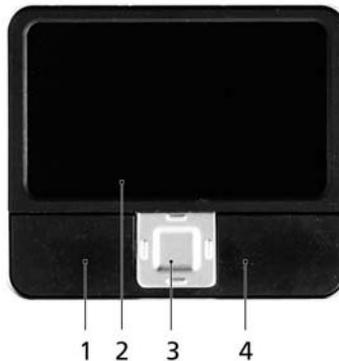
Easy-launch button	Default application
<i>e</i>	Acer Empowering Technology (user-programmable)
Mail	E-mail application (user-programmable)
Web browser	Internet browser (user-programmable)
P	User-programmable

# Touchpad

The built-in touchpad is a pointing device that senses movement on its surface. This means the cursor responds as you move your finger across the surface of the touchpad. The central location on the palmrest provides optimum comfort and support.

## Touchpad Basics

Use the touchpad as follows:



- Move your finger across the touchpad (2) to move the cursor.
- Press the left (1) and right (4) buttons located on the edge of 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 (2) is the same as clicking the left button.
- Use the four-way scroll (3) button to scroll up or down and move left or right a page. This button 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	Quickly click twice.		Tap twice (at the same speed as double-clicking a mouse button).	
Select	Click once		Tap once	
Drag	Click and hold. Then slide your finger across the touchpad to drag the cursor over the selection.		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:** Keep your fingers, as well as the surface of the touchpad dry and clean. The touchpad is sensitive to your finger movements: the lighter the touch, the better the response. Tapping hard will not increase

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the touchpad's responsiveness.

**NOTE:** By default, vertical and horizontal scrolling is enabled on your touchpad. It can be disabled under Mouse settings in Windows Control Panel.

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# Acer Empowering Technology

Acer's innovative Empowering Technology toolbar makes it easy to have access to the frequently used functions and manage the notebook. Displayed by default in the upper-right corner of the screen, it features the following handy utilities:

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



For more information, right click on the Empowering Technology toolbar, then 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.

**NOTE:** If you lose your password, there is no method to reset it except by reformatting your notebook or taking your notebook to an Acer Customer Service Center. Be sure to remember or write down your password.

## Acer eDataSecurity Management (for selected models)

Acer eDataSecurity Management is a handy file encryption utility that protects the 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 own 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!**



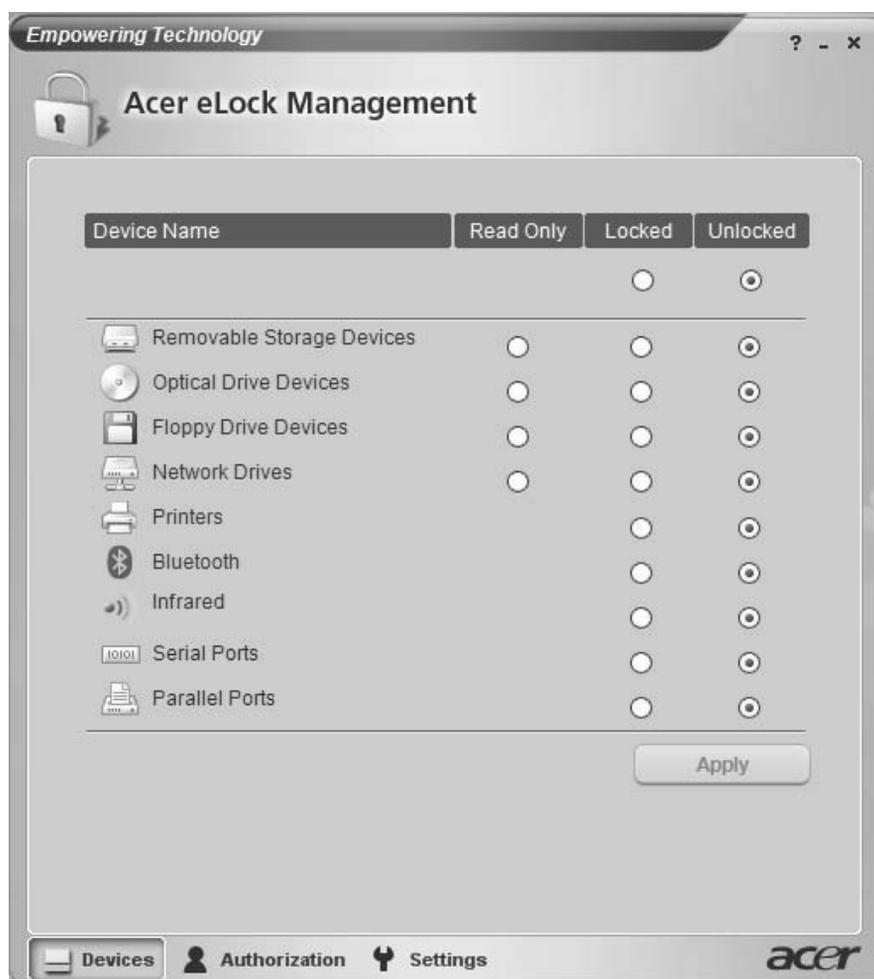
# Acer eLock Management

Acer eLock Management is a security utility that allow you to lock up your removable data, optical and floppy drives to ensure that data can not be stolen while your notebook is unattended.

- Removable data devices: includes USB disk drives, USB pen drives, USB flash drives, USB MP3 drives, USB memory card readers, IEEE 1394 disk drives and any other removable disk drives that can be mounted as a file system when plugged into the system.
- Optical drive devices: includes any kind of CD-ROM or DVD-ROM drives.
- Floppy disk drives: 3.5-inch disks only.
- Interfaces: includes serial port, parallel port, infrared (IR), and Bluetooth.

To activate Acer eLock Management, a password must be set at first. Once set, you may apply locks to any of the three kinds of devices. Lock(s) will be set without any reboot necessary, and will remain locked after rebooting, until unlocked.

**NOTE:** If you lose the password, there is no method to reset it except by reformatting the notebook or taking the notebook to an Acer Customer Service Center. Be sure to remember or write down the password.



Acer ePerformance Management is a system optimization tool that boosts the performance of the Acer notebook. It provides an express optimization method to release unused memory and disk space quickly. The user can also enable advanced options for full control over the following options:

- Disk optimization: removes unneeded items and files.
- Speed optimization: improves the usability and performance of the Windows XP system.
- Memory optimization: releases unused memory and check usage.

