

Product: 2008 Acer Aspire 7730/7730G Series Laptop Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/2008-acer-aspire-77307730g-series-laptop-service-repair-workshop-manual/>

Aspire 7730/7730G Series Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to <http://csd.acer.com.tw>

PRINTED IN TAIWAN

Sample of manual. Download All 210 pages at:
<https://www.arepairmanual.com/downloads/2008-acer-aspire-77307730g-series-laptop-service-repair-workshop-manual/>

Revision History

Full Download: <http://www.arepairmanual.com/downloads/2008-acer-aspire-77307730g-series-laptop-service-repair-workshop-manual/>

07730g-series-laptop-service-repair-workshop-manual/

Please refer to the table below for the updates made on Aspire 7730/7730G Series service guide.

Date	Chapter	Updates

Sample of manual. Download All 210 pages at:

<https://www.arepairmanual.com/downloads/2008-acer-aspire-77307730g-series-laptop-service-repair-workshop-manual/>

Copyright

Copyright © 2008 by Acer Incorporated. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of Acer Incorporated.

Disclaimer

The information in this guide is subject to change without notice.

Acer Incorporated makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties of merchantability or fitness for any particular purpose. Any Acer Incorporated software described in this manual is sold or licensed "as is". Should the programs prove defective following their purchase, the buyer (and not Acer Incorporated, its distributor, or its dealer) assumes the entire cost of all necessary servicing, repair, and any incidental or consequential damages resulting from any defect in the software.

Acer is a registered trademark of Acer Corporation.

Intel is a registered trademark of Intel Corporation.

Pentium and Pentium II/III are trademarks of Intel Corporation.

Other brand and product names are trademarks and/or registered trademarks of their respective holders.

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	1
Features	1
System Block Diagram	4
Your Acer Notebook tour	5
Front View	5
Closed Front View	6
Left View	7
Right View	8
Rear View	8
Bottom View	9
Indicators	10
Easy-Launch Buttons	10
Touch Pad Basics (with fingerprint reader)	11
Using the Keyboard	12
Lock Keys and embedded numeric keypad	12
Windows Keys	13
Hot Keys	14
Special Key	15
Using the System Utilities	16
Acer GridVista (dual-display compatible)	16
Launch Manager	17
Hardware Specifications and Configurations	18
 System Utilities	 27
BIOS Setup Utility	27
Navigating the BIOS Utility	27
Information	28
Main	29
Advanced	30
Security	32
Power	35
Boot	37
Exit	38
BIOS Flash Utility	39
Remove HDD/BIOS Utility	40
 Machine Disassembly and Replacement	 43
Disassembly Requirements	43
General Information	44
Pre-disassembly Instructions	44
Disassembly Process	44
External Module Disassembly Process	45
External Modules Disassembly Flowchart	45
Removing the Battery Pack	46
Removing the SD dummy card	47
Removing the ExpressCard dummy card	48
Removing the Lower Covers	49
Removing the DIMM Modules	50
Removing the MXM Module	51
Removing the Turbo RAM module	51
Removing the TV Tuner module	53
Removing the WLAN Module	54
Removing the Hard Disk Drive1 Module	55
Removing the Hard Disk Drive2 Module	58

Table of Contents

Removing the Optical Drive Module	60
Main Unit Disassembly Process	62
Main Unit Disassembly Flowchart	62
Removing the Switch Cover	63
Removing the Switch Board	64
Removing the Keyboard	65
Removing the Modem Module	65
Removing the Antenna, MIC and Speaker Cables	67
Removing the LCD Module	69
Removing the Upper Cover	71
Removing the Touch Pad	75
Removing the Finger Print Reader	76
Removing the Launch Board	77
Removing the Speaker Module	79
Removing the eKey Module	79
Removing the Bluetooth board	81
Removing the Subwoofer Module	82
Removing the ExpressCard Module	83
Removing the Mainboard	85
Removing the CPU Fan Module	86
Removing the CPU	87
LCD Module Disassembly Process	89
LCD Module Disassembly Flowchart	89
Removing the LCD Bezel	90
Removing the Inverter Board	91
Removing the Camera Module	92
Removing the LCD Panel	93
Removing the LCD Brackets and FPC Cable	94
LCD Module Reassembly Procedure	96
Replacing the LCD Panel	96
Replacing the LCD Bezel	99
Main Module Reassembly Procedure	100
Replacing the CPU	100
Replacing the CPU Fan Module	100
Replacing the Mainboard	101
Replacing the Bluetooth Board	102
Replacing the ExpressCard Module	102
Replacing the Subwoofer Module	103
Replacing the Finger Print Reader	104
Replacing the eKey Module	106
Replacing the Touch Pad	107
Replacing the Launch Board	107
Replacing the Switch Board	108
Replacing the Antenna, MIC and Speaker Cables	109
Replacing the Speaker Module	111
Replacing the Upper Cover	111
Replacing the Modem Module	115
Replacing the Keyboard	116
Replacing the Switch Cover	117
Replacing the ODD Module	118
Replacing the Hard Disk Drive2 Module	119
Replacing the Hard Disk Drive1 Module	120
Replacing the WLAN Board	121
Replacing the TV Tuner Module	122
Replacing the Turbo Ram Module	123

Table of Contents

Replacing the MXM Module	123
Replacing the DIMM Modules	124
Replacing the Lower Covers	124
Replacing the ExpressCard Dummy Tray	125
Replacing the SD Dummy Tray	125
Replacing the Battery	125
Troubleshooting	127
Common Problems	127
Power On Issue	128
No Display Issue	129
Random Loss of BIOS Settings	130
LCD Failure	131
Built-In Keyboard Failure	131
Touch Pad Failure	132
Internal Speaker Failure	132
Internal Microphone Failure	134
HDD Not Operating Correctly	135
ODD Failure	136
USB Failure (Rightside)	139
Modem Function Failure	139
Wireless Function Failure	140
EasyTouch Button Failure	140
MediaTouch Button Failure	141
Fingerprint Reader Failure	141
Thermal Unit Failure	142
HDTV Switch Failure	142
External Mouse Failure	143
Other Failures	143
Intermittent Problems	144
Undetermined Problems	144
POST Codes Tables	145
Chipset POST Codes	145
Core POST Codes	147
Jumper and Connector Locations	155
Top View	155
Bottom View	156
Clearing Password Check and BIOS Recovery	157
Clearing Password Check	157
BIOS Recovery by Crisis Disk	158
FRU (Field Replaceable Unit) List	159
Aspire 7730/7730G Exploded Diagrams	160
Upper Cover	160
Lower Cover	161
LCD Panel	162
Model Definition and Configuration	170
Aspire 7730/7730G Series	170
Test Compatible Components	193
Microsoft® Windows® Vista Environment Test	194
PCMCIA LAN Card Test	194
Express Card Test	194

Table of Contents

Display Port Test	194
USB Port Test	194
Access Point Test	195
Bluetooth Test	195
Card Reader Test	196
Audio Jacks Port Test	196
Port Replicator Test	196
Online Support Information	197
Index	199

System Specifications

Features

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

Operating System

- Windows® Vista™

Platform

- Intel® Centrino® 2 processor technology, featuring:
 - Intel® Core™2 Duo processor*
 - Mobile Intel® PM45/GM45 Express Chipset*
 - Intel® Wireless WiFi Link 5100/5300, 5150/5350*

System Memory

- Dual-Channel DDR2 SDRAM support
- Up to 2 GB of DDR2 667 MHz memory, upgradeable to 4 GB using two soDIMM modules*

TV Tuner

- Digital TV-tuner supporting DVB-T*

Display and graphics

- 14.1" WXGA 1280 x 800
- Mobile Intel® GM45 Express Chipset
- NVIDIA GeForce 9300M GS / 9600M GT*

Storage subsystem

- 2.5" hard disk drive
- Optical drive options:
 - Blu-ray Disc™ /DVD-Super Multi double-layerdrive
 - DVD-Super Multi double-layer drive
- 5-in-1 card reader

Audio

- Dolby-certified surround sound system with two built-in stereo speakers and one subwoofer supporting low-frequency effects
- S/PDIF (Sony/Philips Digital Interface) support for digital speakers
- Acer PureZone technology with two built-in stereo microphones

Dimensions and Weight

- 340.4 (W) x 247 (D) x 22.9/42.3 (H) mm (13.4 x 9.7 x 0.9/1.6 inches)
- 2.4 kg (5.29 lbs.)

Communication

- Acer Video Conference, featuring:
 - Integrated Acer Crystal Eye webcam
 - Acer Video Conference Manager software
 - Acer PureZone technology
 - Optional Acer Xpress VoIP phone
- WLAN: Intel® Wireless WiFi Link 5100/5300*
- WiFi®/WiMAX™: Intel® Wireless WiFi Link 5150/5350*
- WPAN: Bluetooth® 2.0+EDR (Enhanced Data Rate)
- LAN: Gigabit Ethernet; Wake-on-LAN ready
- Modem: 56K ITU V.92

Privacy control

- Acer Bio-Protection fingerprint solution
- BIOS user, supervisor, HDD passwords
- Kensington lock slot

Power subsystem

- ACPI 3.0
- 48.8 W 4400 mAh*
- 3-pin 90 W AC adapter*
- 3-pin 65 W AC adapter*
- Energy Star 4.0

Special keys and controls

- 88-/89-/93-key keyboard
- Touch Pad pointing device
- Empowering Key
- Easy-launch buttons: WLAN, Internet, email, Bluetooth, Acer Arcade™
- Acer MediaTouch keys: play/pause, stop, previous, next and record keys
- Volume wheel
- Acer Media Center remote control*

I/O interface

- Acer EasyPort IV connector
- ExpressCard™/54 slot
- 5-in-1 card reader (SD/MMC/MS/MS PRO/xD)

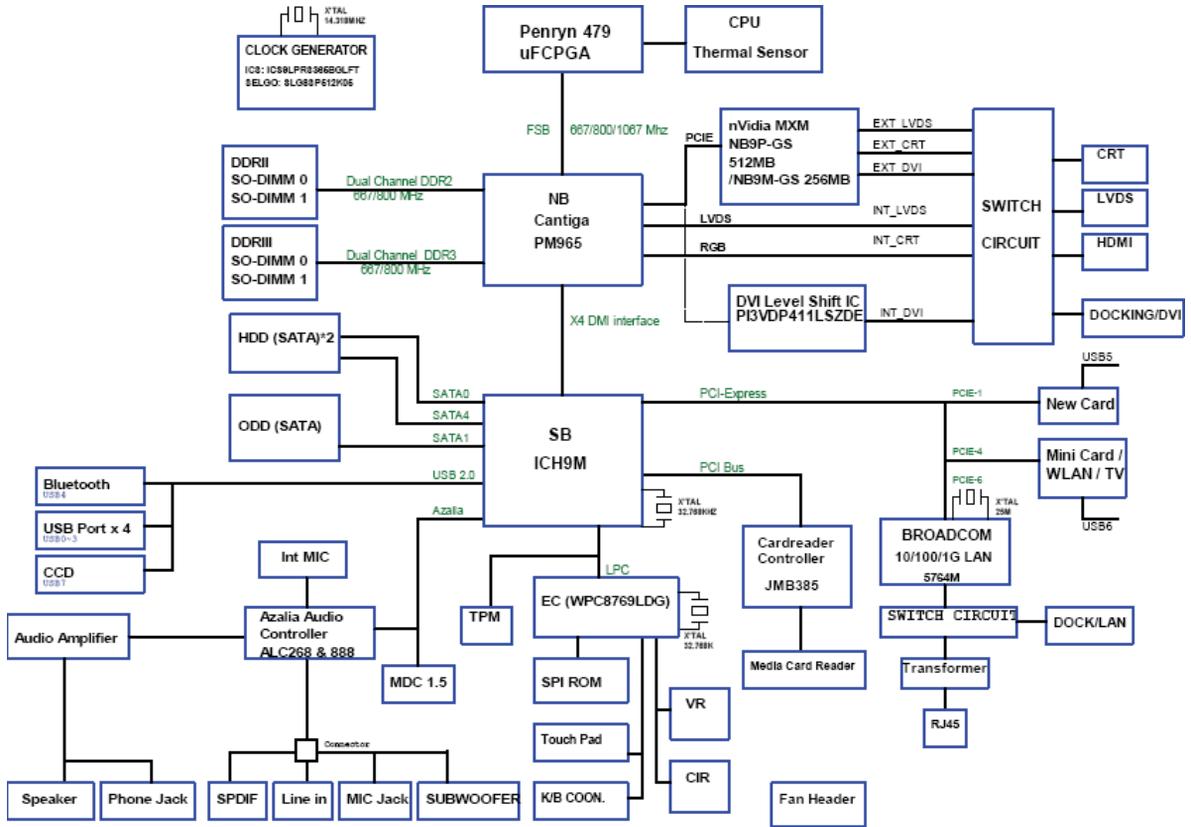
-
- 3 USB 2.0 ports
 - HDMI™ port with HDCP support
 - Consumer infrared (CIR) port
 - External display (VGA) port
 - Headphones/speaker/line-out port with S/PDIF support
 - Microphone-in jack
 - Line-in jack
 - Ethernet (RJ-45) port
 - Modem (RJ-11) port
 - DC-in jack for AC adapter

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%

NOTE: Items marked with * denote only selected models.

System Block Diagram



Your Acer Notebook tour

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

Front View



No.	Icon	Item	Description
1		Acer PureZone	Two internal stereo microphones for sound recording.
2		Acer Crystal Eye	Web camera for video communication.
3		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
4		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
5		Empowering key	Launch Acer Empowering Technology
6		Easy-launch buttons	Buttons for launching frequently used program.
7		Palmrest	Comfortable support area for your hands when you use the computer.
8		Touch Pad	Touch-sensitive pointing device which functions like a computer mouse.

No.	Icon	Item	Description
9		Click buttons (left, center* and right)	The left and right buttons function like the left and right mouse buttons. *The center button serves as Acer Bio-Protection fingerprint reader supporting Acer FingerNav 4-way control function.
10		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
11		Keyboard	For entering data into your computer.
12		Speakers	Left and right speakers deliver stereo audio output.
13		Acer MediaTouch keys	For use with Acer Arcade and other media playing programs.
14		Power button	Turns the computer on and off.

Closed Front View



No.	Icon	Item	Description
1		CIR receiver	Receives signals from a remote control.
2		5-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xD-Picture Card (xD).
3		Latch	Locks and releases the lid

Left View



No.	Icon	Item	Description
1		Acer EasyPort IV connector	Connects to Acer EasyPort IV.
2		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
3		External display (VGA) port	Connects to a display device (e.g. external monitor, LCD projector).
4	HDMI	HDMI	Connects to a television or display device with HDMI input.
5		USB 2.0 ports	Connect to USB 2.0 devices (e.g. USB mouse, USB camera).
6		Line-in jack	Accepts audio line-in devices (e.g. audio CD player, stereo walkman).
7		Microphone-in jack	Accepts input from external microphones.
8		Headphones/speaker/line-out jack with S/PDIF support	Connects to audio line-out devices (e.g. speakers, headphones).
9		Unlimited volume control wheel	Adjust the volume of the audio-out.
10	ExpressCard / 54	ExpressCard/54 slot	Accepts one ExpressCard/54 module.

Right View



No.	Icon	Item	Description
1		Kensington lock slot	Connects to a Kensington-compatible computer security lock.
2		Optical drive	Internal optical drive; accepts CDs or DVDs.
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. Note: Insert a paper clip into the emergency eject hole to eject the optical drive tray when the computer is off.
6		Modem (RJ-11) port	Connects to a phone line.
7		USB 2.0 port	Connect to USB 2.0 devices (e.g. USB mouse, USB camera).
8		DC-in jack	Connects to an AC adapter

Rear View



No.	Icon	Item	Description
1		Ventilation slots	Enable the computer to stay cool, even after prolonged use.

Bottom View



No.	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery release latch	Releases the battery for removal.
3		Memory compartment	Houses the computer's main memory.
4		Hard disk bay	Houses the computer's hard disk (secured with screws).
5		Battery lock	Locks the battery in position.
6		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	Indicates the computer's power status.
	Battery	Indicates the computer's battery status.
	HDD	Indicates when the hard disk drive is active.
	Num Lock	Lights up when Num Lock is activated.
	Caps Lock	Lights up when Caps 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

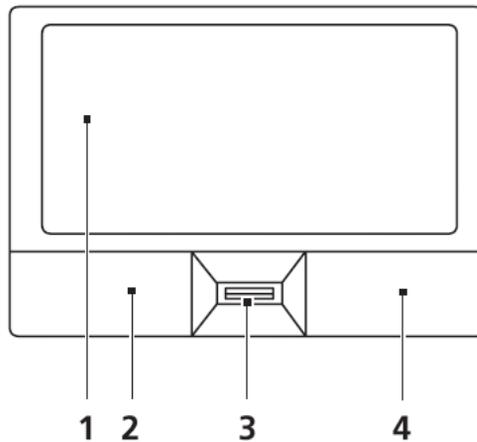
Located beside the keyboard are application buttons. These buttons are called easy-launch buttons. They are: WLAN, Internet, email, Bluetooth, Arcade and Acer Empowering Technology.

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, mail and programmable buttons, run the Acer Launch Manager.

Icon	Function	Description
	Empowering Technology	Launch Acer Empowering Technology. (user-programmable)
	Acer Arcade	Launch Acer Arcade utility
	Wireless communication button/indicator	Enables/disables the wireless function. Indicates the status of wireless LAN communication.
	Web browser	Internet browser (user-Programmable)
	Mail	Email application (user-Programmable)
	Bluetooth communication button/indicator	Enables/disables the Bluetooth function. Indicates the status of Bluetooth communication.

Touch Pad Basics (with fingerprint reader)

The following items show you how to use the Touch Pad with Acer Bio-Protection fingerprint reader:



- Move your finger across the Touch Pad (2) to move the cursor.
- Press the left (1) and right (4) buttons located beneath the Touch Pad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the Touch Pad is the same as clicking the left button.
- Use Acer Bio-Protection fingerprint reader (3) supporting Acer FingerNav 4-way control function (only for certain models) or the 4-way scroll (3) button (only for certain models) to scroll up or down and move left or right a page. This fingerprint reader or button mimics your cursor pressing on the right scroll bar of Windows applications.

Function	Left Button (1)	Right Button (3)	Main Touch Pad (2)
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 use finger on the Touch Pad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the Touch Pad on the second tap and drag the cursor.
Access context menu		Click once.	

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

Using the Keyboard

The keyboard has full-sized keys and 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 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 two keys that perform Windows-specific functions.

Key	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 functions:</p> <ul style="list-style-type: none"> <  >: Open or close the Start menu <  > + <D>: Display the desktop <  > + <E>: Open Windows Explore <  > + <F>: Search for a file or folder <  > + <G>: Cycle through Sidebar gadgets <  > + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) <  > + <M>: Minimizes all windows <  > + <R>: Open the Run dialog box <  > + <T>: Cycle through programs on the taskbar <  > + <U>: Open Ease of Access Center <  > + <X>: Open Windows Mobility Center <  > + <BREAK>: Display the System Properties dialog box <  > + <SHIFT+M>: Restore minimized windows to the desktop <  > + <TAB>: Cycle through programs on the taskbar by using Windows Flip 3-D <  > + <SPACEBAR>: Bring all gadgets to the front and select Windows Sidebar <CTRL> + <  > + <F>: Search for computers (if you are on a network) <CTRL> + <  > + <TAB>: Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D <p>Note: Depending on your edition of Windows Vista, some shortcuts may not function as described.</p>
 Application key	<p>This key has the same effect as clicking the right mouse button; it opens the application's context menu.</p>

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.



Hotkey	Icon	Function	Description
<Fn> + <F1>	?	Hotkey help	Displays help on hotkeys.
<Fn> + <F2>		Acer eSettings Management	Launches Acer eSettings Management in Acer Empowering Technology.
<Fn> + <F3>		Acer ePower Management	Launches Acer ePower Management in Acer Empowering Technology.
<Fn> + <F4>	Z ^z	Sleep	Puts the computer in Sleep mode.
<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>		Touch Pad toggle	Turns the internal Touch Pad on and off.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.
<Fn> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁>		Brightness down	Decreases the screen brightness.
<Fn> + <Home>		Play/Pause	Play/Pause the current media.
<Fn> + <Pg Up>		Stop	Stop the current media.
<Fn> + <Pg Dn>		Skip Backward	Skip to the next track of the current media.
<Fn> + <End>		Skip Forward	Skip to the previous track of the current media.

Special Key

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



The Euro symbol

1. Open a text editor or word processor.
2. Hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.

NOTE: 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. Hold <Shift> and then press the <4> key at the upper-center of the keyboard.

NOTE: This function varies by the operating system version.

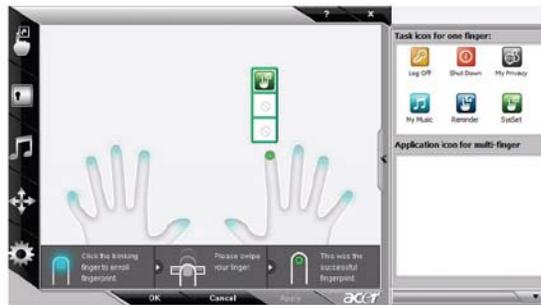
.

Using the System Utilities

Acer Bio-Protection (only for certain models) Acer Bio-Protection Fingerprint Solution is a multi-purpose fingerprint software package integrated with the Microsoft Windows operating system. Utilizing the uniqueness of one's fingerprint features, Acer Bio-Protection Fingerprint Solution has incorporated protection against unauthorized access to your computer with centralized password management with Password Bank, easy music player launching with Acer MusicLaunch, secure Internet favorites via Acer MyLaunch, and fast application/website launching and login with Acer FingerLaunch, while Acer ProfileLaunch can launch up to three applications/websites from a single finger swipe.

Acer Bio-Protection Fingerprint Solution also allows you to navigate through web browsers and documents using Acer FingerNav. With Acer Bio-Protection Fingerprint Solution, you can now enjoy an extra layer of protection for your personal computer, as well as the convenience of accessing your daily tasks with a simple swipe of your finger!

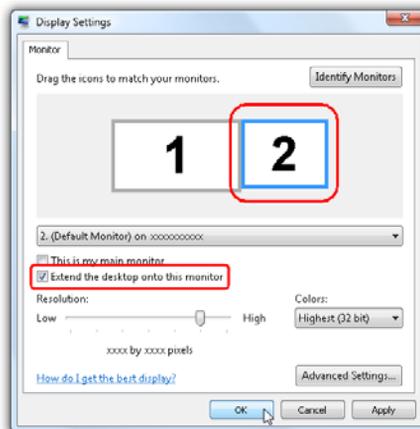
For more information refer to the Acer Bio-Protection help files.



Acer GridVista (dual-display compatible)

NOTE: This feature is only available on certain models.

To enable the dual monitor feature of the notebook, first ensure that the second monitor is connected, then select **Start, Control Panel, Display** and click on **Settings**. Select the secondary monitor (**2**) icon in the display box and then click the check box **Extend my windows desktop onto this monitor**. Finally, click **Apply** to confirm the new settings and click **OK** to complete the process.



Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start → All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

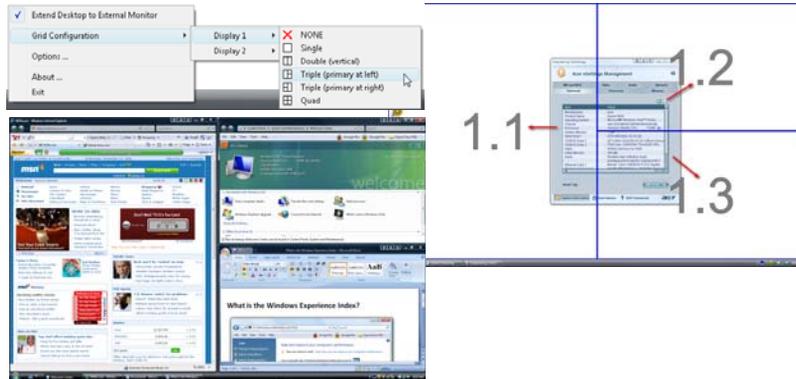


Double (vertical), Triple (primary at left), Triple (primary at right), or Quad Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

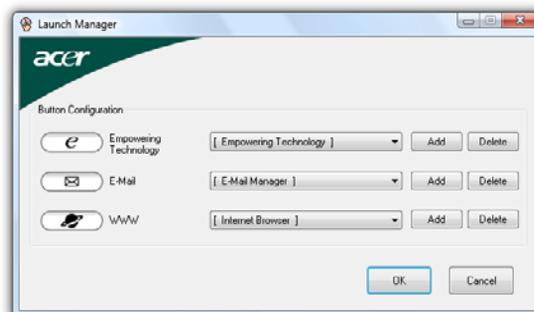
AcerGridVista is simple to set up:

1. Run Acer GridVista and select your preferred screen configuration for each display from the task bar.
2. Drag and drop each window into the appropriate grid.
3. Enjoy the convenience of a well-organized desktop.



NOTE: Please ensure that the resolution setting of the second monitor is set to the manufacturer's recommended value.

Launch Manager



Launch Manager allows you to set the four easy-launch buttons located above the keyboard. You can access the Launch Manager by clicking on Start > All Programs > Launch Manager to start the application.

Hardware Specifications and Configurations

Processor

Item	Specification
CPU type	Intel® Penryn (dual core)
CPU package	Intel® 479 pin Micro-FCPGA
Features	<p>Supports Intel architecture with Dynamic execution.</p> <p>On-die, primary 32-kB instruction cache and 32-kB write-back data cache.</p> <p>On-die, up to 6MB second level shared cache with advanced transfer cache architecture.</p> <p>Streaming SIMD Extensions 2 (SSE2), Streaming SIMD Extensions 3 (SSE3) Supplemental streaming SIMD extensions 3 (SSSE3) and SSE4.1 instruction sets.</p> <p>1066MHz source-synchronous front side bus (FSB)</p> <p>Advanced power management features including Enhanced Intel SpeedStep® Technology and dynamic FSB frequency switching.</p> <p>Digital thermal sensor (DTS).</p> <p>Execute disable bit support for enhanced security.</p> <p>Intel® Dynamic Acceleration Technology and Enhanced Multi Threaded Thermal Management (EmTTM).</p> <p>Support enhanced Intel Virtualization Technology.</p>
CPU core voltage	VCC-CORE: Voltage for the future processor will depend on VID0-6 for battery mode and setting via software for adapter mode for the future processor

North Bridge

Item	Specification
Type	Intel Crestline PM965 (North Bridge)
Package	FCBGA 1329 balls
Features	<p>Processor host bus supports, 667/800/1066MHz FSB support.</p> <p>Supports Dual Channel DDR2 SDRAM at 667/800 MHz.</p> <p>Supports Dual Channel DDR3 SDRAM at 800/1066 MHz.</p> <p>Integrated SDRAM controller up to 8GB (2 SODIMM support)</p> <p>External Graphics interface for PCI Express Architecture support</p> <p>DMI x2 and DMI x 4 for connection between GMCH and ICH9M</p> <p>Supports ACPI 3.0</p>
CPU core voltage	1.05V core, 1.5V, VCCSM(DDR2 = 1.8V/DDR3=1.5V), 2.5V, 3.3V

South Bridge

Item	Specification
Type	ICH9M (South Bridge)
Package	BGA 676 balls

Item	Specification
Features	<p>Upstream accelerated Hub architecture interface for access to GMCH.</p> <p>PCI Express Base Specification, Revision 1.1 support.</p> <p>PCI 2.3 interface. (4 PCI Request/Grant pairs).</p> <p>ACPI Power Management Logic Support.</p> <p>Enhanced DMA controller, interrupt controller, timers functions.</p> <p>Integrated Serial ATA host controllers with independent DMA operation on six ports and AHCI support.</p> <p>USB 1.1 & USB 2.0 Host controllers.</p> <p>Supports Intel High Definition Audio (Intel HD Audio) Interface.</p> <p>Supports Intel® Matrix Storage Technology.</p> <p>Supports Intel® Active Management Technology.</p> <p>Low Pin Count (LPC) interface.</p> <p>6 PCIe ports.</p>
CPU core voltage	1.05V core,1.5V,3.3V,5V CMOS I/O

CPU Fan True Value Table

CPU Temp (°C)	Fan Speed (rpm)
45	0
50	3000 ± 100
65	3400 ± 100
78	3800 ± 100
90	4200 ± 100

System Clock

Item	Specification
System clock chip	ICS9LPRS365BGLFT or pin compatible device
Package	64 pin TSSOP
Clock Synthesizer	<p>200/166Mhz for CPU, GMCH</p> <p>100MHz clock buffer for GMCH, ICH8M and PCI-E device, SATA, Docking station</p> <p>96MHz GMCH</p> <p>48Mhz for USB clock inside ICH8M</p> <p>33Mhz PCI clock for PCI device, LPC</p> <p>14.31818Mhz for ICH8M</p>
Power	3.3V
Features	<p>Support spread spectrum function, for reducing EMI</p> <p>Support SM bus interface.</p>

Crystal and Oscillator

Item	Specification
Features	<p>14.31818Mhz crystal for clock chip</p> <p>32.768Khz crystal for RTC inside ICH8M and WINBOND WPC8769LDG</p> <p>24.576Mhz for RICOH R5C833</p> <p>25MHZ crystal for BROADCOM Lan controller BCM5787.</p>

Item	Specification
Memory controller	Built-in
Memory size	0MB (no on-board memory)
DIMM socket number	2 sockets
Supports memory size per socket	2 GB
Supports maximum memory size	4G for 64bit OS (with two 2GB SODIMM)
Supports DIMM type	DDR II 677 Mhz /DDR III 1066 MHz SDRAM memory interface design
Supports DIMM Speed	667/1066 MHz
Memory module combinations	You can install memory modules in any combinations as long as they match the above specifications.

Memory Combinations

Slot 1	Slot 2	Total Memory
0MB	256MB	256MB
0MB	512MB	512MB
0MB	1024MB	1024MB
0MB	2048MB	2048MB
256MB	256MB	512MB
256MB	512MB	768MB
256MB	1024MB	1280MB
256MB	2048MB	2304MB
512MB	256MB	768MB
512MB	512MB	1024MB
512MB	1024MB	1536MB
512MB	2048MB	2560MB
1024MB	0MB	1024MB
1024MB	256MB	1280MB
1024MB	512MB	1536MB
1024MB	1024MB	2048MB
1024MB	2048MB	3072MB
2048MB	0MB	2048MB
2048MB	256MB	2304MB
2048MB	512MB	2560MB
2048MB	1024MB	3072MB
2048MB	2048MB	4096MB

Hard Disk Drive Interface

Item				
Vendor & Model Name				
Capacity (MB)				
Bytes per sector				

Sample of manual. Download All 210 pages at:

<https://www.arepairmanual.com/downloads/2008-acer-aspire-77307730g-series-laptop-service-repair-workshop-manual/>