

Hardware Specifications and Configurations

Features

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

Operating System

- Genuine Windows® 7 Home Premium 64-bit
- Genuine Windows® 7 Home Basic 64-bit

Platform

- Intel® Core™ i3-2350M processor (3 MB L3 cache, 2.30 GHz.35W), Intel® Core™ i3-2370M processor (3 MB L3 cache, 2.40 GHz.35W), i3-3110M processor (3 MB L3 cache, 2.30 GHz.35W), Intel® Core™ i5-2450M processor (3 MB L3 cache, 2.50 GHz.35W), Intel® Core™ i5-2520M processor (3 MB L3 cache, 2.50 GHz.35W), Intel® Core™ i5-2540M processor (3 MB L3 cache, 2.60 GHz.35W), Intel® Core™ i5-3210M processor (3 MB L3 cache, 2.50 GHz.35W), Intel® Core™ i5-3320M processor (3 MB L3 cache, 2.60 GHz.35W), Intel® Core™ i5-3360M processor (3 MB L3 cache, 2.80 GHz.35W), Intel® Core™ i7-2670QM processor (6 MB L3 cache, 2.20 GHz.45W), Intel® Core™ i7-3610QM processor (6 MB L3 cache, 2.30 GHz.45W), Intel® Core™ i7-3720QM processor (6 MB L3 cache, 2.60 GHz.45W), supporting Intel® 64 architecture, Intel® Smart Cache
- Mobile Intel® HM77 Express Chipset

System Memory

- Dual-channel DDR3 SDRAM support:
 - Up to 8 GB of DDR3 system memory, upgradable to 16 GB using two soDIMM modules for Dual-Core CPU, upgradable to 32 GB using four soDIMM modules for Quad-Core CPU under 64-bit OS

Display

- 17.3" HD 1600 x 900 resolution, high-brightness (220-nit) LED-backlit Glare TFT LCD
- Mercury-free, environment-friendly
- LED-backlight with driving circuit design
- 16:9 aspect ratio
- 8/10/16 ms response time

Graphics

NVIDIA Optimus™ GeForce GT630M/GT640M/GT650M with dedicated DDR3 VRAM (1GB/2GB), supporting CUDA®, PhysX®, 3D Vision®, Microsoft® DirectX® 11, OpenGL® 4.1, OpenCL™ 1.1

- Dual independent display support
- 16.7 million colors
- External resolution / refresh rates:
 - HDMI® port up to 1920 x 1080: 60 Hz

- VGA port up to 2048 x 1536: 85 Hz
- MPEG-2/DVD decoding
- VC-1 and H.264 (AVC) decoding
- Microsoft® DirectX® Video Acceleration (DXVA) application interface (API)
- HDMI® (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support

Intel® HD Graphics 3000/4000

- Dual independent display support
- 16.7 million colors
- External resolution / refresh rates:
 - HDMI® port up to 1920 x 1200: 60 Hz
 - VGA port up to 2048 x 1536: 75 Hz
- MPEG-2/DVD decoding
- VC-1 and H.264 (AVC) decoding
- Microsoft® DirectX® Video Acceleration (DXVA) application interface (API)
- HDMI® (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support

Storage Subsystem

Solid state drive

- SATA Type, LF+HF
- Multi-Level Cell (MLC) NAND flash
- 120 GB/256 GB

Hard disk drive

- SATA Type, 5400 RPM, 2.5 ", Slim with height of 7.0/9.5/12.5 mm
- 320/500/640/750/1000 GB

Multi-in-1 card reader, supporting:

- Secure Digital™ (SD), Secure Digital™ eXtended Capacity(SDXC), MultiMediaCard™ (MMC), MultiMediaCard Plus (MMCplus™), Memory Stick™ (MS), xD-Picture Card™ (xD), Secure Digital™ High Capacity (SDHC)

Audio Subsystem

- Optimized Dolby® Home Theater® v4 audio enhancement, featuring Audio Optimizer, Audio Regulator, Volume Leveler, Volume Maximizer, Intelligent EQ, Dialogue Enhancer, Surround Virtualizer for Headphones, Surround Virtualizer for Built-in Speakers, and Dolby® Digital Output technologies
- Two built-in 20mm diameter stereo speakers and the Acer Tuba CineBass booster supporting low-frequency effects
- True-5.1-channel surround sound output
- High-definition audio support

- MS-Sound compatible
- Built-in digital microphone

Optical Media Drive

- Slim DVD Super Multi double-layer drive:
 - Read: 8X DVD-R, 8X DVD-RW, 8X DVD-ROM, 8X DVD-R DL, 5X DVD-RAM, 8X DVD+R, 8X DVD+RW, 8X DVD+R DL, 24X CD-R, 24X CD-RW, 24X CD-ROM
 - Write: 8X DVD-R, 6X DVD-R DL, 6X DVD-RW, 5X DVD-RAM, 8X DVD+R, 6X DVD+R DL, 8X DVD+RW, 24X CD-R, 24X CD-RW
- Slim Blu-ray Disc™ combo:
 - Read: 6X BD-ROM, 6X BD-ROM DL, 6X BD-R, 4.8X BD-R DL, 4.8X BD-R TL, 6X BD-R LTH, 6X BD-RE, 4.8X BD-RE DL, 2X BD-RE TL, 4.8X BDMV, 8X DVD-ROM, 8X DVD-ROM DL, 8X DVD-R, 6X DVD-R DL, 8X DVD-RW, 8X DVD+R, 6X DVD+R DL, 8X DVD+RW, 5X DVD-RAM, 24X CD-R, 24X CD-RW, 24X CD-ROM
 - Write: 8X DVD-R, 6X DVD-R DL, 6X DVD-RW, 5X DVD-RAM, 8X DVD+R, 6X DVD+R DL, 8X DVD+RW, 24X CD-R, 24X CD-RW
- Slim Blu-ray Disc™ writer:
 - Read: 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 8X DVD-RW, 8X DVD+RW, 8X DVD-R DL, 8X DVD+R DL, 6X BD-ROM, 6X BD-R, 6X BD-R DL, 5X BD-R L to H, 5X BD-RE, 5X BD-RE DL, 5X DVD-RAM, 24X CD-ROM, 24X CD-R, 24X CD-RW
 - Write: 8X DVD-R, 8X DVD+R, 8X DVD+RW, 6X DVD-R DL, 6X DVD+R DL, 6X BD-R, 6X BD-R DL, 6X DVD-R DL, 6X DVD+R DL, 6X DVD-RW, 6X BD-R, 6X BD-R DL, 5X DVD-RAM, 4X BD-R L to H, 2X BD-RE, 2X BD-RE DL, 24X CD-R, 24X CD-RW

Communication

Webcam

- Acer Video Conference, featuring:
 - 1.3M webcam with 1280*1024 effective resolution
 - Supports 720P resolution online video calls

Wireless and networking

- WLAN:
 - WiFi 2X2 AGN
- WPAN:
 - BT4.0 Atheros WB222
- LAN:
 - Gigabit Ethernet (10/100/1000 Mbps)

Privacy Control

- HDD password
- BIOS user, supervisor password
- Kensington lock slot

Dimensions and Weight

Dimensions

- 414.8 (L) x 275 (W) x 34~34.65 (H) mm

Weight

- 3.215 kg with 6 cell battery

Power Adapter and Battery

ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes

Power adapter

- 3-pin 65 W AC adapter:
 - 95.0 (W) x 50.0 (D) x 25.4 (H) mm
 - 216 g with 180 cm power cord
- 3-pin 90W AC adapter:
 - 126.5(W) x 50.0 (D) x 30.6 (H) mm
 - 400g maximum

Battery

- 4400 mAh 6-cell Li-ion standard battery pack
- 9000 mAh 9-cell Li-ion standard battery pack

Special Keys and Controls

Keyboard

- 103-US/104-UK/107-JP keys-layout keyboard with independent standard numeric keypad, international language support

Touchpad

- Dual-mode touchpad with Media Console / multi-gesture function, supporting two-finger scroll, pinch, rotate, flip

Media keys

- Media controls: play/pause, stop, previous, next
- Volume controls: up/down

I/O Ports

- Multi-in-1 card reader (SD™, SDXC™, SDHC™, MMC, MMCplus™, MS™, xD™)
- 2 USB 2.0 ports

- 2 USB 3.0 ports
- External VGA port
- HDMI® port
- Headphone/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port
- DC-in jack for AC adapter

Software

Productivity

- Acer AUPEO
- OOBE offer Acer Edition
- Acer Backup Manager
- Acer ePower Management
- Acer eRecovery Management
- Acer Evernote
- Acer Identity Card
- Acer KOBO
- Acer Netflix Shortcut
- Acer newsXpresso
- Acer NOOK for PC
- Acer Registration
- Acer Updater
- Acer Welcome Center
- Adobe Flash Player
- Adobe Reader X
- Office 2010 Acer edition

Security

- McAfee Family Protection Shortcut
- McAfee Internet Security Suite WW
- McAfee Virus Definitions
- MyWinLocker Suite
- Norton Online Backup

Multimedia

- Acer Crystal Eye Webcam
- Acer clear.fi Tutorial
- Acer clear.fi client
- Acer clear.fi
- NTI Media Maker

Gaming

- Acer Fooz Kids
- Wild Tangent WW Acer Edition

Communication and ISP

- Skype
- Windows Live Essentials 2011

Web links and utilities

- Acer Accessory Store
- Bing Bar
- Bing Setup
- eBay Shortcut 2009
- Internet Explorer 9
- Silverlight

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%

Notebook Tour

This section provides an overview of the features and functions of the notebook.

Top Cover View



Figure 1-1. Top Cover View

Table 1-1. Top Cover View

No	Icon	Item	Description
1		Microphone	Internal microphone for recording sound.
2		Screen	Also called Liquid-Crystal Display (LCD), displays computer output.
3		Webcam	Web camera for video communication.

Keyboard View



Figure 1-2. Keyboard View

Table 1-2. Keyboard View

No	Icon	Item	Description
1		Power button	Turns the computer on and off.
2		Keyboard	For entering data into your computer.
3		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
4		Click buttons (left and right)	The left and right buttons function like the left and right mouse buttons.
5		Speakers	Left and right speakers deliver stereo audio output.

Closed Front View



Figure 1-3. Closed Front View

Table 1-3. Closed Front View

No	Icon	Item	Description
1		Power indicator	Indicates the computer's power status.
		Battery indicator	Indicates the computer's battery status. 1. Charging: The light shows amber when the battery is charging. 2. Fully charged: The light shows blue when in AC mode.
		HDD indicator	Indicates when the hard disk drive is active
		Communication Indicator	Indicates the computer's wireless connectivity device status.
2		Multi-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xD-Picture Card (xD). Note: Push to remove/install the card. Only one card can operate at any given time.

Left View

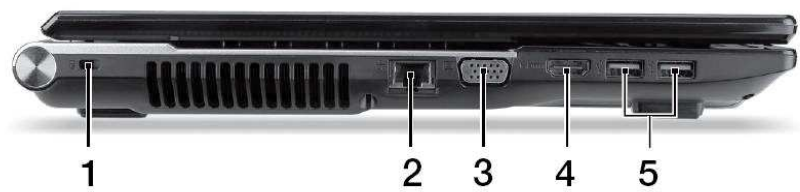
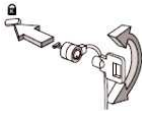


Figure 1-4. Left View

Table 1-4. Left View

No	Icon	Item	Description
1		Kensington lock slot 	Connects to a Kensington-compatible computer security lock. Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.
2		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
3		External VGA port	Connects to a display device (e.g., external monitor, LCD projector).
4		HDMI port	Supports high definition digital video connections.
5		USB 3.0 ports	Connect to USB devices. <i>A USB 3.0 port can be distinguished by its blue connector (see below).</i>

Right View



Figure 1-5. Right View

Table 1-5. Right View

No	Icon	Item	Description
1		Headphones/speaker/line-out jack	Connects to audio line-out devices (e.g., speakers, headphones).
		Microphone jack	Accepts inputs from external microphones.
2		USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
3		Optical drive	Internal optical drive; accepts CDs or DVDs.
4		Optical disk access indicator	Lights up when the optical drive is active.
5		Optical drive eject button	Ejects the optical disk from the drive.
6		Emergency eject hole	<i>Ejects the optical drive tray when the computer is turned off.</i> Note: Insert a paper clip to the emergency eject hole to eject the optical drive tray when the computer is off.
7		DC-in jack	Connects to an AC adapter.

Base View



Figure 1-6. Base View

Table 1-6. Base View

No	Icon	Item	Description
1		Battery release latch	Releases the battery for removal. Insert a suitable tool into the latch and slide to release.
2		Hard disk bay	Houses the computer's hard disk (secured with screws).
		Memory compartment	Houses the computer's main memory.
3		Battery bay	Houses the computer's battery pack.

Indicators

The computer has five easy-to-read status indicators. The following indicators are visible even when the computer cover is closed.

Table 1-7. Indicators

Icon	Function	Description
	Power indicator	Indicates the computer's power status.
	Battery indicator	Indicates the computer's battery status. 1. Charging: The light shows amber when the battery is charging. 2. Fully charged: The light shows blue when in AC mode.
	HDD indicator	Indicates when the hard disk drive is active
	Communication Indicator	Indicates the computer's wireless connectivity device status.
	Optical disk access indicator	Lights up when the optical drive is active.

Touchpad Basics

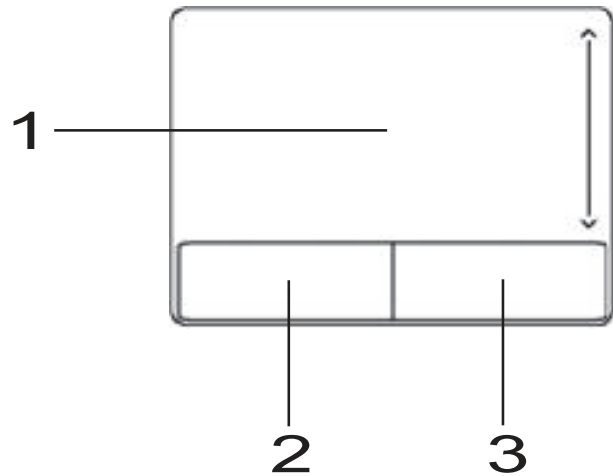


Figure 1-7. Touchpad

- Move finger across the TouchPad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the TouchPad to perform selection and execution functions. These two virtual buttons are the equivalent of the left and right buttons on a mouse. Tapping on the TouchPad is the same as clicking the left button.

Table 1-8. Touchpad

Function	Left Button (2)	Right Button (3)	Main Touchpad (1)
Execute	Quickly click twice.		Rapidly tap twice.
Select	Click once.		Tap once.
Access context menu		Click once.	

Using the Keyboard

The keyboard contains an embedded numeric keypad, a separate cursor, windows key, lock function keys, special and full sized keys.



Figure 1-8. Keyboard Lock Keys

Lock Keys

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

Table 1-9. Lock Keys

Lock key	Description
Caps Lock	When on, all alphabetic characters are in uppercase.
Num Lock	Off by default. When On, internal keyboard acts as numeric key padlock. If an external keyboard or keypad is present, the Num Lock will have the following definitions: • When On, the system boots with external keyboard/keypad Num Lock status On. Internal keyboard overlay numeric keys are disabled. • The key can be turned on/off via the internal keyboard (Fn+F11) or the external keyboard/keypad. Num Lock affects the external keyboard/keypad only. • Shift state is NOT used for the cursor movement by the numeric keys. • The state of the Num Lock is not changed by the attachment/removal (hot plug) of the external keyboard/keypad.
Scroll Lock <Fn> +<F12>	When On, the screen moves one line up or down when pressing up or down arrow keys. Scroll Lock is not applicable for all applications.

Windows Keys

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

-  Windows Logo key
-  Application key

Table 1-10. Windows Keys

Key	Description
Windows Logo key	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. Functions supported by Windows XP, Windows Vista, and Windows 7: <⊞>: Open or close the Start menu <⊞> + <R>: Open the Run dialog box <⊞> + <M>: Minimizes all windows <SHIFT> + <⊞> + M: Undo minimize all windows <⊞> + <F1>: Show the help window <⊞> + <E>: Open Windows Explorer <⊞> + <F>: Search for a file or folder <⊞> + <D>: Show the desktop <CTRL> + <⊞> + <F>: Search for computers (search in network) <⊞> + <L>: Lock computer (if connected to a network domain), or switch users (if not connected to a network domain) <CTRL> + <⊞> + <TAB>: Moves focus from Start menu, to the Quick Launch toolbar, to the system tray (use RIGHT ARROW or LEFT ARROW to move focus to items on the Quick Launch toolbar and the system tray) <⊞> + <TAB>: Cycle through programs on the taskbar <⊞> + <BREAK>: Display the System Properties dialog box Functions supported by Windows XP: <⊞> + <BREAK>: Show the System Properties dialog box <⊞> + <U>: Open Ease of Access Center
Application key	This key has the same effect as clicking the right mouse button; opening the application's context menu.

Hotkeys

The computer uses hotkeys or key combinations to access most computer controls.

To activate hotkeys, press and hold the **<Fn>** key before pressing the key in the combination.



Figure 1-9. Keyboard Hotkeys

Table 1-11. Hotkeys

Hotkey	Icon	Function	Description
<Fn> + <F3>		Communication key	Enables / disables the computer's communication devices. (Communication devices may vary by configuration.)
<Fn> + <F4>		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>		Display off	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> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁>		Brightness down	Decreases the screen brightness.
<Fn> + <△>		Volume up	Increases the sound volume.

Table 1-11. Hotkeys (Continued)

Hotkey	Icon	Function	Description
<Fn> + <▽>		Volume down	Decreases the sound volume.
<Fn> + <Home>		Play/Pause	Play or pause a selected media file.
<Fn> + <Pg Up>		Stop	Stop playing the selected media file.
<Fn> + <Pg Dn>		Previous	Return to the previous media file.
<Fn> + <End>		Next	Jump to the next media file.

Specification Tables

Computer specifications

Item	Metric	Imperial
Dimensions		
Length	414.8 mm	16.3 in
Width	275.0 mm	10.8 in
Height	34.6 mm	1.4 in
Weight (equipped with optical drive, flash drive, and battery)	3.2 kg with HDD	7.0 lbs with HDD
Input power		
Operating voltage	19V at 3.42A Max for 90W	
Operating current	3.42A(Max)	
Temperature		
Operating	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 65°C	-4°F to 149°F
Relative humidity		
Operating	20% to 80%	
Nonoperating	20% to 80%	
Maximum altitude (unpressurized)		
Operating	No data available	
Nonoperating	No data available	
Shock		
Operating	105 g, 2 ms, half-sine	
Nonoperating	220 g, 2 ms, half-sine	
Random vibration		
Operating	0.6 g zero-to-peak, 5 Hz to 500 Hz	
Nonoperating	1.5 g zero-to-peak, 5Hz to 500 Hz	
⇒ NOTE: Applicable product safety standards specify thermal limits for plastic surfaces. The computer operates within this range of temperatures.		

System Board Major Chips

Item	Specification
Core logic	Intel Panther Point HM77
VGA	NVIDIA Optimus™ GeForce GT630M/640M/650M
LAN	Atheros AR8151L
USB 3.0	Intel Panther Point HM77
Embedded controller	ITE 8518E
Bluetooth	Atheros AR9462(main chip of WLAN combo)
Wireless	FOXCONN T77H348.02 LITEON WCBN611AH-AA
TPM	N/A
PCMCIA	N/A
Audio codec	Realtek ALC271X-VB6
Card reader	Realtek RTS5209-GR

Processor

Item	Specification
Central Processing Unit (CPU) type	Intel® Sandy Bridge Core® i7/i5/i3 Processor Intel® Ivy Bridge Core® i7/i5/i3 Processor
CPU package	rPGA988B
Core Logic	Multi execution cores· • A 32-KB instruction and 32-KB data first-level cache (L1) for each core • A 256-KB shared instruction/data second-level cache (L2) for each core • Up to 6-MB shared instruction/data third-level cache (L3), shared among all cores
Chipset	Mobile Intel® HM77

Processor Specifications

Item	CPU Speed (GHz)	Cores	Mfg Tech	Cache Size	Package
i3-2350M	2.3	2	32nm	3MB	rPGA988B
i3-2370M	2.4	2	32nm	3MB	rPGA988B
i5-2450M	2.5	2	32nm	3MB	rPGA988B
i5-2520M	2.5	2	32nm	3MB	rPGA988B
i5-2540M	2.6	2	32nm	3MB	rPGA988B
i7-2670QM	2.2	4	32nm	6MB	rPGA988B
i3-3110M	2.3	2	22nm	3MB	rPGA988B
i5-3210M	2.5	2	22nm	3MB	rPGA988B
i5-3320M	2.6	2	22nm	3MB	rPGA988B
i5-3360M	2.8	2	22nm	3MB	rPGA988B
i7-3610QM	2.3	4	22nm	6MB	rPGA988B
i7-3720QM	2.6	4	22nm	6MB	rPGA988B

DIS 35W CPU Fan True Value Table (Tj85/Tj90/Tj100/Tj105)

CPU Temperature (Tj85)	CPU Temperature (Tj90)	CPU Temperature (Tj100)	CPU Temperature (Tj105)	Fan Speed (RPM)
36	36	36	36	2400
51	51	53	51	2599
61	61	62	61	3000
70	70	70	70	3297
78	79	79	79	3698
Throttling 0%				
Tj85:OS Critical shut down at 83°C; EC Force shut down at 84°C Tj90:OS Critical shut down at 88°C; EC Force shut down at 89°C Tj100:OS Critical shut down at 97°C; EC Force shut down at 99°C Tj105:OS Critical shut down at 102°C; EC Force shut down at 104°C				

DIS 45W CPU Fan True Value Table (Tj85/Tj90/Tj100/Tj105))

CPU Temperature (Tj85)	CPU Temperature (Tj90)	CPU Temperature (Tj100)	CPU Temperature (Tj105)	Fan Speed (RPM)
36	36	36	36	2400
51	51	53	53	2599
61	61	62	62	3000
70	70	72	72	3297
78	78	82	82	3698
Throttling 0%				
Tj85:OS Critical shut down at 83°C; EC Force shut down at 84°C Tj90:OS Critical shut down at 88°C; EC Force shut down at 89°C Tj100:OS Critical shut down at 97°C; EC Force shut down at 99°C Tj105:OS Critical shut down at 102°C; EC Force shut down at 104°C				

UMA CPU Fan True Value Table (Tj85/Tj90/Tj100/Tj105)

CPU Temperature	Fan Speed (RPM)
40	2400
55	2599
60	3004
66	3302
73	3698
Throttling 0%	
Tj85:OS Critical shut down at 83°C; EC Force shut down at 84°C Tj90:OS Critical shut down at 88°C; EC Force shut down at 89°C Tj100:OS Critical shut down at 98°C; EC Force shut down at 99°C Tj105:OS Critical shut down at 103°C; EC Force shut down at 104°C	

System Memory

Item	Specification
Memory controller	Built in CPU
Memory size	2/4/8 GB DDR3 RAM
DIMM socket number	4
Supports memory size per slot	8 GB max
Supports maximum memory size	32 GB
Supports DIMM type	Support DDR III 1333/1600MHz SDRAM memory interface design
Supports DIMM Speed	1333/1600MHz
Support DIMM voltage	1.5V
Supports DIMM package	204P

Memory Combinations

Slot 1(MB)	Slot 2(MB)	Slot 3(MB)	Slot 4(MB)	Total Memory (MB)
2048	0	0	0	2048
4096	0	0	0	4096
8192	0	0	0	8192
2048	0	2048	0	4096
4096	0	2048	0	6144
4096	0	4096	0	8192
8192	0	2048	0	10240

Slot 1(MB)	Slot 2(MB)	Slot 3(MB)	Slot 4(MB)	Total Memory (MB)
8192	0	4096	0	12288
8192	0	8192	0	16384
2048	2048	2048	2048	8192
2048	4096	2048	2048	10240
2048	4096	2048	4096	12288
2048	8192	2048	2048	14336
2048	8192	2048	4096	16384
2048	8192	2048	8192	20480
4096	2048	2048	2048	10240
4096	4096	2048	2048	12288
4096	4096	2048	4096	14336
4096	8192	2048	2048	16384
4096	8192	2048	4096	18432
4096	8192	2048	8192	22528
4096	2048	4096	2048	12288
4096	4096	4096	2048	14336
4096	4096	4096	4096	16384
4096	8192	4096	2048	18432
4096	8192	4096	4096	20480
4096	8192	4096	8192	24576
8192	2048	2048	2048	14336
8192	4096	2048	2048	16384
8192	4096	2048	4096	18432
8192	8192	2048	2048	20480
8192	8192	2048	4096	22528
8192	8192	2048	8192	26624
8192	2048	4096	2048	16384
8192	4096	4096	2048	18432
8192	4096	4096	4096	20480
8192	8192	4096	2048	22528
8192	8192	4096	4096	24576
8192	8192	4096	8192	28672
8192	2048	8192	2048	20480

Slot 1(MB)	Slot 2(MB)	Slot 3(MB)	Slot 4(MB)	Total Memory (MB)
8192	4096	8192	2048	22528
8192	4096	8192	4096	24576
8192	8192	8192	2048	26624
8192	8192	8192	4096	28672
8192	8192	8192	8192	32768

Graphics Controller

Item	Specification
VGA Chip	NVIDIA Optimus™ Geforce GT 630M/640M/650M
Supports	CUDA®, PhysX®, 3D Vision®, Microsoft® DirectX® 11, OpenGL® 4.1, OpenCL™ 1.1

Video Interface

Item	Specification
Chipset	NVIDIA Optimus™ Geforce GT 630M/640M/650M
Package	29mmx29mm
Interface	LVDS
Compatibility	32bpp
Sampling rate	60Hz

BIOS

Item	Specification
BIOS vendor	Insyde
BIOS Type	UEFI
BIOS ROM type	WINBOND W25Q32BVSSIG
BIOS ROM size	4MB

Item	Specification
BIOS Features	• Winbond code base • Flash ROM 4 MB • Support Acer UI • Support multi-boot • Suspend to RAM (S3)/Disk (S4) • Various hotkeys for system control • Support SMBIOS 2.3 ,PCI2.2. • DMI utility for BIOS serial number configurable/asset tag-Support PXE • Support WinFlash • Wake on LAN from S3 • Wake on LAN from S5 in AC mode • System information • Refer to Acer BIOS specification.

LAN Interface

Item	Specification
LAN Chipset	Atheros AR8151L
LAN connector type	RJ45
LAN connector location	RJ45 at the left side
Features	Supports 10/100/1000Mbps

Keyboard

Item	Specification
Type	Chicklet keyboard
Total number of keypads	103-US/104-UK/107-JP keys
Windows logo key	Yes
Internal & external keyboard work simultaneously	Plug USB keyboard to the USB port directly: Yes
Features	• Overlay numeric keypad • Support independent pgdn/pgup/home/end keys • Factory configurable different languages by OEM customer

Hard Disk Drive (AVL components)

Item	Specification		
Vendor & Model Name	Western Digital WD5000BPVT-22HX ZT3	Western Digital WD10JPVT-22A1YT 0	TOSHIBA MK1059GSMP
Capacity (GB)	500	1000	1000

Item	Specification		
Bytes per sector	512/4096	512/4096	512/4096
Data heads	3	4	6
Drive Format			
Height(mm)	7.0	9.5	7.0
Disks	2	2	3
Performance Specifications			
Spindle speed (RPM)	5400	5400	5400
Buffer size	8MB	8MB	8MB
Interface	SATA	SATA	SATA
Fast data transfer rate (Gbits/s, max)	3.0	3.0	3.0
DC Power Requirement			
Voltage tolerance	5V +/- 5%	5V +/- 5%	5V +/- 5%

Super-Multi Drive Interface

Item	Specification	
Vendor & Model name	HITACHI-LG Slim DVD Super Multi Drive GT51N/PLDS Slim DVD Super Multi Drive DS-8A8SH	
Performance Specification	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: 3600(24x)Max	Sustained: 11080(8x)Max
Buffer Memory	1MB	
Interface	SATA	
Applicable disc format	Applicable disc format CD: CD-DA, CD-ROM, CD-ROM XA, Photo CD (multi-session), Video CD, Cd-Extra (CD+), CD-text DVD: DVD-VIDEO, DVD-ROM, DVD-R (3.9GB, 4.7GB) DVD-R DL, DVD-RW, DVD-RAM, DVD+R, DVD+R DL, DVD+RW CD: CD-DA (Red Book) - Standard Audio CD & CD-TEXT CD-ROM (Yellow Book Mode1 & 2) - Standard Data CD-ROM XA (Mode2 Form1 & 2) - Photo CD, Multi-Session CD-I (Green Book, Mode2 Form1 & 2, Ready, Bridge) CD-Extra/ CD-Plus (Blue Book) - Audio & Text/Video Video-CD (White Book) - MPEG1 Video CD-R (Orange Book Part) CD-RW & HSRW (Orange Book Part Volume1 & Volume 2 Super Audio CD (SACD) Hybrid type US & US+ RW DVD: DVD-ROM (Book 1.02), DVD-Dual DVD-Video (Book 1.1) DVD-R (Book 1.0, 3.9G) DVD-R (Book 2.0, 4.7G) - General & Authoring DVD+R (Version 1.0) DVD+RW DVD-RW (Non CPRM & CPRM) DVD+/-R Dual	
Loading mechanism	Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release	

Item	Specification
Power Requirement	
Input Voltage	5 V +/- 5% (Operating)

BD Combo Drive Interface

Item	Specification		
Vendor & Model name	HITACHI-LG BD COMBO 12.7mm Tray CT40N		
Performance Specification	With CD Disc	With DVD Disc	With Blue-ray Disc
Transfer rate	Sustained: 3.6Mbytes/sec(24x) Max	Sustained: 11.08Mbytes/sec(8x) Max	Sustained: 215.79Mbits/sec(6x) Max
Buffer Memory	2MB		
Interface	SATA		
Applicable disc format	Applicable disc format CD: CD-DA, CD-ROM, CD-ROM XA, Photo CD (multi-session), Video CD, Cd-Extra (CD+), CD-text DVD: DVD-VIDEO, DVD-ROM, DVD-R (3.9GB, 4.7GB) DVD-R DL, DVD-RW, DVD-RAM, DVD+R, DVD+R DL, DVD+RW CD: CD-DA (Red Book) - Standard Audio CD & CD-TEXT CD-ROM (Yellow Book Mode1 & 2) - Standard Data CD-ROM XA (Mode2 Form1 & 2) - Photo CD, Multi-Session CD-I (Green Book, Mode2 Form1 & 2, Ready, Bridge) CD-Extra/ CD-Plus (Blue Book) - Audio & Text/Video Video-CD (White Book) - MPEG1 Video CD-R (Orange Book Part) CD-RW & HSRW (Orange Book Part Volume1 & Volume 2 Super Audio CD (SACD) Hybrid type US & US+ RW DVD: DVD-ROM (Book 1.02), DVD-Dual DVD-Video (Book 1.1) DVD-R (Book 1.0, 3.9G) DVD-R (Book 2.0, 4.7G) - General & Authoring DVD+R (Version 1.0) DVD+RW DVD-RW (Non CPRM & CPRM) DVD+/-R Dual Blu-Ray: BD-R, BD-R DL, BD-RE, BD-RE DL		
Loading mechanism	Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release		
Power Requirement			
Input Voltage	5 V +/- 5% (Operating)		

BD RW Drive Interface

Item	Specification		
Vendor & Model name	Panasonic BD RW 12.7mm Tray UJ260ABBA-B		
Performance Specification	With CD Disc	With DVD Disc	With Blue-Ray Disc
Transfer rate	Sustained: 3600kB/sec(24x) Max	Sustained: 10800kB/sec(8x) Max	Sustained: 27MB/sec(6x) Max

Item	Specification
Buffer Memory	2MB
Interface	SATA
Applicable disc format	Applicable disc format CD: CD-DA, CD-ROM, CD-ROM XA, Photo CD (multi-session), Video CD, Cd-Extra (CD+), CD-text DVD: DVD-VIDEO, DVD-ROM, DVD-R (3.9GB, 4.7GB) DVD-R DL, DVD-RW, DVD-RAM, DVD+R, DVD+R DL, DVD+RW CD: CD-DA (Red Book) - Standard Audio CD & CD-TEXT CD-ROM (Yellow Book Mode1 & 2) - Standard Data CD-ROM XA (Mode2 Form1 & 2) - Photo CD, Multi-Session CD-I (Green Book, Mode2 Form1 & 2, Ready, Bridge) CD-Extra/ CD-Plus (Blue Book) - Audio & Text/Video Video-CD (White Book) - MPEG1 Video CD-R (Orange Book Part) CD-RW & HSRW (Orange Book Part Volume1 & Volume 2 Super Audio CD (SACD) Hybrid type US & US+ RW DVD: DVD-ROM (Book 1.02), DVD-Dual DVD-Video (Book 1.1) DVD-R (Book 1.0, 3.9G) DVD-R (Book 2.0, 4.7G) - General & Authoring DVD+R (Version 1.0) DVD+RW DVD-RW (Non CPRM & CPRM) DVD+/-R Dual Blu-Ray: BD-R, BD-R DL, BD-RE, BD-RE DL
Loading mechanism	Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release
Power Requirement	
Input Voltage	5 V +/- 5% (Operating)

LED 17.3"

Item	Specification
Vendor/model name	AUO 17.3"HD 16:9 Color TFT-LCD/ B173RW01 V3
Screen Diagonal (mm)	438.4
Active Area (mm)	382.08 x 214.92
Display resolution (pixels)	1600x3(RGB) x 900
Pixel Pitch (mm)	0.2388 x 0.2388
Typical White Luminance (cd/m2) also called Brightness	220 typ.187 min
Contrast Ratio	500 typ.
Response Time (Optical Rise Time/Fall Time) msec	8 typ. / 16 Max
Typical Power Consumption (watt)	6.5 max
Weight (without inverter)	570g max
Physical Size (mm)	398.6 x 233.3 x 5.8 max
Electrical Interface	2 channel LVDS

Item	Specification
Viewing Angle (degree)Horizontal (Right) CR = 10 (Left)Vertical (Upper) CR = 10 (Lower)	45 (Right) / 45 (Left) / 15 (Upper) / 35 (Lower)

Display Supported Resolution (System Supported Resolution)

Resolution	16 bits	32 bits	Intel	NVIDIA
800x600p/60Hz	Y	Y	Y	Y
1024x768p/60Hz	Y	Y	Y	Y
1152x864/60Hz	Y	Y	Y	Y
1280x600/60Hz	Y	Y	Y	Y
1280x720/60Hz	Y	Y	Y	Y
1280x768/60Hz	Y	Y	Y	Y
1280x800/60Hz	Y	Y	Y	Y
1360x768/60Hz	Y	Y	Y	Y
1366x768/60Hz	Y	Y	Y	Y
1440x900/60Hz	Y	Y	Y	Y
1600x900/60Hz	Y	Y	Y	Y

Graphics Controller

Item	Specification
VGA Chip	NVIDIA Optimus™ GeForce GT630M/640M/650M with dedicated DDR3 VRAM
Supports	CUDA®, PhysX®, 3D Vision®, Microsoft® DirectX® 11, OpenGL® 4.1, OpenCL™ 1.1

Display Supported Resolution (GPU Supported Resolution)

Resolution	16 bits	32 bits	Intel	NVIDIA
640x480p/60Hz	Y	Y	Y	Y
800x600p/60Hz	Y	Y	Y	Y
1024x768p/60Hz	Y	Y	Y	Y
1152x864/60Hz	Y	Y	Y	Y
1280x600/60Hz	Y	Y	Y	Y
1280x720/60Hz	Y	Y	Y	Y
1280x768/60Hz	Y	Y	Y	Y
1280x800/60Hz	Y	Y	Y	Y

Resolution	16 bits	32 bits	Intel	NVIDIA
1360x768/60Hz	Y	Y	Y	Y
1366x768/60Hz	Y	Y	Y	Y
1440x900/60Hz	Y	Y	Y	Y
1400x1050/60Hz	Y	Y	Y	Y
1600x900/60Hz	Y	Y	Y	Y
1600x1024/60Hz	Y	Y	Y	Y
1680x1050/60Hz	Y	Y	Y	Y
1600x1200/60Hz	Y	Y	Y	Y
1920x1200/60Hz	Y	Y	Y	Y
2048x1536/60Hz	Y	Y	Y	Y
2560x1600/60Hz	Y	Y	Y	Y

Display Supported Resolution (LCD panel Supported Resolution)

Resolution	16 bits	32 bits	Intel	NVIDIA
800x600p/60Hz	Y	Y	Y	Y
1024x768p/60Hz	Y	Y	Y	Y
1152x864/60Hz	Y	Y	Y	Y
1280x600/60Hz	Y	Y	Y	Y
1280x720/60Hz	Y	Y	Y	Y
1280x768/60Hz	Y	Y	Y	Y
1280x800/60Hz	Y	Y	Y	Y
1360x768/60Hz	Y	Y	Y	Y
1366x768/60Hz	Y	Y	Y	Y
1440x900/60Hz	Y	Y	Y	Y
1600x900/60Hz	Y	Y	Y	Y

Bluetooth Interface

Item	Specification
Chipset	Atheros AR9462
Data throughput	• 1 Mbps (GFSK) • 2 Mbps ($\pi/4$-DQPSK) for EDR • 3 Mbps (8DPSK) for EDR
Protocol	Bluetooth 4.0 + HS
Host interface	USB 2.0

Bluetooth Module

Item	Specifications
Controller	Atheros AR9462
Features	• Support Class II(TX power maximum to +4dBm) • BT transmission speed including 1M, 2M and 3Mbps EDR operations • Support for Simple Pairing(SP) and Enhanced Inquiry Response (EIR) function • Support for SCATTERNET and PICONET

Camera

Item	Specification
Vendor and Model	LITEON 10P2SF205 LITEON 11P2BF136 CHICONY CKFB15321004970LH SUYIN HF2015-A821-OV01 SUYIN HF1318-P88B-SN04
Type	1.3M

WIFI Card

Item	Specification
Vendor and Model	FOXCONN T77H348.02 WCBN611AH-AA
Wireless LAN Standards	802.11b/g/n
Operating Frequency	2.4 GHz
Form Factor	Half-Mini card
Host Interface	PCI-Express Bus interface
PCB	4-layer design and single side
Antenna connector	2UFL type

Audio Codec and Amplifier

Item	Specification
Audio Controller	Realtek ALC271X-VB6

Item	Specification
Features	• Meets Microsoft WLP (Windows Logo Program) audio requirements • High performance DACs with digital >110dB and analog 98dB (A-weighting) signal-to-noise • High performance ADCs with digital > 100dB and analog 90dB (A-Weighting) signal-to-noise ratio • Six DAC channels support 16/20/24-bit PCM format for 5.1 sound playback • Two stereo ADCs support 16/20/24-bit PCM format, multiple stereo recording • All DACs supports 44.1k/48k/96k/192kHz sample rate • Primary 16/20/24-bit SPDIF-OUT supports 32k/44.1k/48k/88.2k/96k/192kHz sample rate • Secondary 16/20/24-bit SPDIF-OUT supports 32k/44.1k/48k/88.2k/96k/192kHz sample rate • Analog jacks (port-A, B, C, E and G) support stereo input and output re-tasking • Support MONO output at port-H • Port-A/D/E/F built in headphone amplifiers • Port-E and Port-F headphone amplifiers can drive earphone directly without DC blocking capacitor • Port-B/C/E/F with software selectable boost gain (+10/+20/+30dB) for analog microphone input • Supports external PCBEEP input and built-in digital BEEP generator • Software selectable 2.5V/3.2V VREFOUT • Supports legacy analog mixer architecture • Four channels of digital microphone array input for voice applications • Two jack detection pins each designed to detect up to 4 jacks plugging • 1.0dB/step playback volume control • 1.5dB/step recording volume control • High pass filter to cancel DC offset from AD converter • Jack detection function is supported when device is in power down mode (D3) • 2 GPIOs (General Purpose Input and Output) for customized applications. GPIO0 and GPIO1 share pin with digital microphone • Supports anti-pop mode when analog power AVDD is on and digital power is off • Intel low power ECR compliant and power status control for every analog converter and pin widgets • Supports 3.3V digital core power, 1.5V~ 3.3V scalable digital I/O power for HD Audio link, and • 3.0~5.0V analog power • 48-pin LQFP 'Green' package

Item	Specification
Amplifier	Embedded
Features	• 4 step gain control • 2-W/Ch Output Power into 3-W load from 5-V supply • Fully Differential Input • Low Supply Current and Shutdown selection • Embedded de-pop circuit

Audio Interface

Item	Specification
Audio Controller	Realtek ALC271X-VB6
Audio onboard or optional	On board
Mono or Stereo	Stereo
Resolution	Support 16/20/24bit PCM
Compatibility	HD audio Interface;
Sampling rate	Sample rate up to 192Khz resolution VSR (Variable Sampling Rate)
Internal microphone	Yes
Internal speaker/quantity	Yes/(2W speaker x1)

Battery

Item	Specifications	
Vendor & Model name	SIMPLO ICR18650 S3 SIMPLO ICR18650-22F SONY US18650G6G PANASONIC CGR18650CG	SANYO UR18650ZTA
Battery Type	Lithium lion	Lithium lion
Pack capacity	4400 mAh	9000 mAh
Number of battery cell	6	9
Package configuration	3S2P	3S3P

VRAM

Item	Specification
Chipset	HYNIX H5TQ2G63DFR-11C
Memory size	1GB
Interface	DDR3

USB Port

Item	Specification
USB compliance level	USB 3.0, USB 2.0
EHCI	2
Number of USB port(s)	USB 3.0x2, USB 2.0x2
Location	USB 3.0 two at left side USB 2.0 two at right side
Output Current	1.0A for each connector

HDMI Port

Item	Specification
Compliance level	HDMI1.4b
Data throughput	Up to 281.5 trillion colors
Number of HDMI port(s)	1
Location	HDMI at left side

AC Adapter

Item	Specification
Input rating	100-240V AC
Maximum input AC current	1.5A Max at 100V AC
Inrush current	264V AC
Efficiency	87% min. at nominal input voltage.

System Power Management

Item	Specification
Mech. Off (G3)	All devices in the system are turned off completely.
Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
Working (G0/S0)	Individual devices like CPU and hard disc can be power managed.
Suspend to RAM (S3)	CPU set power down, VGA Suspend, PCMCIA SuspendAudio, Power Down, Hard Disk Power Down, CD-ROM Power Down, Super I/O Low Power mode.
Save to Disk (S4)	Also called Hibernation Mode. System saves all system states and data onto the disc prior to power off the whole system.

Card Reader

Item	Specification
Chipset	REALTEK RTS5209-GR
Package	48-pin LQFP
Maximum supported size	SD: 2T, MMC: 16G, miniSD: 16G
Features	Support SD, MMC, MMC plus, MS, xD, SDHC, SDXC UHS104

System LED Indicator

Item	Specification
Power indicator	• Blue color solid on: System on • Blue color and amber color off: System off • Amber color blinking: S3 state
Battery indicator	Charging • Amber solid on - Battery charging with AC • Blue color solid on - Battery full • Amber blinking - Battery in low power state or battery abnormal Discharging • Amber blinking - Battery in critical low state • Amber color off - Discharging state.

System DMA Specification

Hardware DMA	System Function
DMA0	Not applicable
DMA1	Not applicable
DMA2	Not applicable
DMA3	Not applicable
DMA4	Direct memory access controller
DMA5	Not applicable
DMA6	Not Assigned
DMA7	Not Assigned

System Interrupt Specification

Hardware IRQ	System function
IRQ00	System timer
IRQ01	Standard PS/2 Keyboard
IRQ08	System CMOS/real time clock
IRQ12	ELAN PS/2 Port Smart-Pad

FRU List

Table 6-2. FRU List

Category	Acer Description	Acer Part No
ADAPTER		
	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65VH BA, LV5, Low profile LED LF	AP.06501.033
	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-69AW, LV5, Low profile LED LF	AP.06503.029
	Adapter Chicony Power 65W 19V 1.7x5.5x11 Yellow CPA09-A065N1, LV5, low profile LF	AP.0650A.017
	Adapter Chicony Power 65W 19V 1.7x5.5x11 Yellow A065R035L / A11-065N1A, LV5, low profile LF	AP.0650H.003
	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-86AW, LV5, Low profile LF	AP.06503.031
	Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90MD BBA, low profile, LV5 LF	AP.09001.032
	Adapter Chicony Power 90W 19V 1.7x5.5x11 Blue A10-090P3A / A090A029L, LV5 low profile LF	AP.0900H.001
	Adapter LITE-ON 90W 19V 1.7x5.5x11 Blue PA-1900-32AW, LV5, Low profile LF	AP.09003.024
	Adapter LITE-ON 120W-DE 19V 1.7x5.5x12.5 Green PA-1121-16AW LV5 LF	AP.12003.005
	Adapter Chicony Power 120W-DE 19V A11-120P1A / A120A003L, LV5 + OBL LF	AP.1200H.001

Table 6-2. FRU List (Continued)

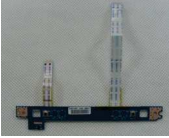
Category	Acer Description	Acer Part No
BATTERY		
	Battery SIMPLO AS10D Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON ID:AS10D73	BT.00607.126
	Battery SIMPLO AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D	BT.00607.127
	Battery PANASONIC AS10D51, for new IC max1787 Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON	BT.00605.072
	Battery SONY AS10D Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON ID:AS10D41	BT.00604.049
	Battery SANYO AS10G Li-Ion 3S3P SANYO 9 cell 9000mAh Main COMMON ID:AS10G3E	BT.00903.013
	Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON new IC BQ8055	BT.00603.124
	Battery LGC AS10D Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON ID:AS10D81	BT.0060G.001
BOARD		
	Liteon 3rd WiFi 2x2 AGN+ BT4.0 Atheros WB222	NI.23600.103
	Foxconn 3rd WiFi 2x2 AGN+ BT4.0 Atheros WB222	NI.23600.102
	IO BOARD W/FFC	55.RYNN5.001
	POWER BUTTON BOARD W/FFC	55.RYNN5.002
	TP BOARD W/FFC	55.RYNN5.003

Table 6-2. FRU List (Continued)

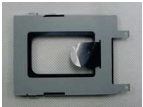
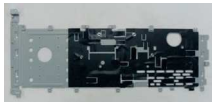
Category	Acer Description	Acer Part No
CABLE		
	POWER CORD 1.8M BLACK 3 PIN EU	27.RYNN5.001
	POWER CORD 1.8M BLACK 3 PIN US	27.RGV0U.006
	POWER CORD (EU) 1.8M 3P BLACK	27.RGV0U.001
	POWER CORD DANISH 3P BLACK	27.RGV0U.007
	DC-IN CABLE 120W	50.RYNN5.001
	DC-IN CABLE 65W	50.RYNN5.002
	DC-IN CABLE 90W	50.RYNN5.003
CASE/COVER/BRACKET ASSEMBLY		
	PALMREST ASSY W/TP - BLACK	60.RYNN5.001
	PALMREST ASSY W/TP - GRAY	60.M0MN5.001
	KB FRAME W/SPEAKER	60.RYNN5.002
	LOWER CASE ASSY	60.RYNN5.003
	MAIN DOOR	42.RYNN5.001
	HDD BRACKET	33.RYNN5.001
	KB SUPPORT BRACKET	33.RYNN5.002
	SD DUMMY CARD	42.RYNN5.002
CPU		

Table 6-2. FRU List (Continued)

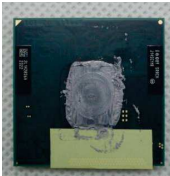
Category	Acer Description	Acer Part No
	CPU Intel Core i5 i5-3320M PGA 2.6G 1600 35W Ivy Bridge	KC.33201.DMP
	CPU Intel Core i3 i3-3110M PGA 2.3G 1600 35W Ivy Bridge	KC.31101.DMP
	CPU Intel Pentium Dual-Core B970 PGA 2.3G 35W DDR3-1333	KC.97001.DPB
	CPU Intel Core i7 i7-3610QM PGA 2.3G 1600 45W Ivy Bridge	KC.36101.QMP
	CPU Intel Core i7 i7-3610QM PGA 2.3G 1600 45W Ivy Bridge	KC.36101.QMP
HDD		
	HDD WD 2.5" 5400rpm 500GB WD5000BPVT-22HXZT3, ML375M-AF2, 375G/P, 4K drive SATA 8MB LF+HF F/W:01.01A01	KH.50008.024
	HDD WD 2.5" 5400rpm 750GB WD750BPVT-22HXZT3, ML375M-AF2, 375G/P, 4K drive SATA 8MB LF+HF F/W:01.01A01	KH.75008.011
	HDD WD 2.5" 5400rpm 320GB WD3200BPVT-22JJ5T0, ML320S-AF2, 320G/P, 4K drive SATA 8MB LF+HF F/W:01.01A01	KH.32008.024
	HDD WD 2.5" 5400rpm 1000GB WD10JPVT-22A1YT0, 1TB, 500G/P, ML500M SATA 8MB LF+HF F/W:01.01A01 4K drive	KH.01K08.017
	HDD TOSHIBA 2.5" 5400rpm 1000GB MK1059GSMP/HDD2K61EUL, Capricorn 3BS, 4K SATA 8MB LF+HF F/W:GU001J 4K	KH.01K04.003
	HDD HGST 2.5" 5400rpm 1000GB Dummy P/N SATA 8MB LF F/W: Dummy p.n	KH.01K07.005
	HDD TOSHIBA 2.5" 5400rpm 320GB MK3259GSXP, Capricorn 3BS, 375G/P, 4K drive SATA 8MB LF+HF F/W:GN003J 4K	KH.32004.005
	HDD HGST 2.5" 5400rpm 320GB DUMMY P.N for BOM use SATA 8MB LF F/W:NA	KH.32007.015
	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS,9HH134-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1	KH.50001.017
	HDD TOSHIBA 2.5" 5400rpm 500GB MK5059GSXP, Capricorn 3BS, 375G/P SATA 8MB LF+HF F/W:GN003J 4K	KH.50004.003

Table 6-2. FRU List (Continued)

Category	Acer Description	Acer Part No
	HDD HGST 2.5" 5400rpm 500GB Dummy P.N for 500G SATA 8MB LF+HF F/W:	KH.50007.015
	HDD HGST 2.5" 5400rpm 500GB HTS545050A7E380, Jaguar B7,0J23335, 500G/P SATA 8MB LF+HF F/W:DA4837	KH.50007.023
	HDD WD 2.5" 5400rpm 500GB WD5000BPVT-22A1YT0, ML500M, 500G/P SATA 8MB LF+HF F/W:01.01A01	KH.50008.036
	HDD TOSHIBA 2.5" 5400rpm 750GB MK7559GSXP, 375G/P, Capricorn BS, 4K drive SATA 8MB LF+HF F/W:GN003J	KH.75004.001
	HDD HGST 2.5" 5400rpm 750GB HTS547575A9E384, Jet B, 375G/P SATA 8MB LF F/W:DA3872	KH.75007.004
	HDD HGST 2.5" 5400rpm 750GB Dummy P.N SATA 8MB LF+HF F/W: 0000	KH.75007.005
KEYBOARD		
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black US International Texture	KB.I170A.410
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black UK Texture	KB.I170A.409
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 107KS Black Japanese Texture	KB.I170A.397
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black Arabic Texture	KB.I170A.384
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black Greek Texture	KB.I170A.394
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black US International w/ Hebrew Texture	KB.I170A.411
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black Korean Texture	KB.I170A.398
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black Chinese Texture	KB.I170A.389
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black Russian Texture	KB.I170A.402
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 103KS Black Thailand Texture	KB.I170A.407
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black FR/Arabic Texture	KB.I170A.391

Table 6-2. FRU List (Continued)

Category	Acer Description	Acer Part No
KEYBOARD		
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Belgium Texture	KB.I170A.385
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Bulgaria Texture	KB.I170A.387
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Swiss/G Texture	KB.I170A.406
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black CZ/SK Texture	KB.I170A.388
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black US w/ Canadian French Texture	KB.I170A.412
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black German Texture	KB.I170A.393
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Danish Texture	KB.I170A.390
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Nordic Texture	KB.I170A.399
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Spanish Texture	KB.I170A.404
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black French Texture	KB.I170A.392
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Hungarian Texture	KB.I170A.395
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Italian Texture	KB.I170A.396
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Norwegian Texture	KB.I170A.400
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Portuguese Texture	KB.I170A.401
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Brazilian Portuguese Texture	KB.I170A.386
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Sweden Texture	KB.I170A.405
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black SLO/CRO Texture	KB.I170A.403
	Keyboard ACER GF7T_A10B GF7T Internal 17 Standard 104KS Black Turkish Texture	KB.I170A.408

Table 6-2. FRU List (Continued)

Category	Acer Description	Acer Part No
DVD RW DRIVE		
	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT51N LF W/O bezel SATA Zero Power Supported (HF + Windows 7)	KU.0080D.059
	ODD PLDS Super-Multi DRIVE 12.7mm Tray 8X DS-8A8SH LF+HF W/O bezel SATA	KU.0080F.021
	ODD PIONEER Super-Multi DRIVE 12.7mm Tray DL 8X DVR-TD11RS LF W/O bezel 1.01 SATA HF + ZP (HME OPU)	KU.00805.051
	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ8C0ADAA1-B LF+HF W/O bezel SATA Win7	KU.00807.081
	ODD HLDS BD COMBO 12.7mm Tray 6X CT40N LF+HF W/O bezel SATA support BDXL & WIN7	KO.0060D.008
	ODD PIONEER BD COMBO 12.7mm Tray 6X BDC-TD03RT LF+HF W/O bezel SATA (Win7)	KO.00605.002
	ODD PANASONIC BD COMBO 12.7mm Tray 6X UJ160ABAA1-B LF+HF W/O bezel SATA win7	KO.00607.001
	ODD PANASONIC BD COMBO 12.7mm Tray 6X UJ160 W/O bezel SATA dummy PN	KO.00607.002
	SLIM SATA BD COMBO	KO.00405.008
	SLIM SATA BD COMBO	KO.0040F.008
	ODD PANASONIC BD RW 12.7mm Tray 6X UJ260ABAA-B LF W/O bezel SATA	KU.00607.001
	SLIM SATA BD WRITER	KU.00405.019
	ODD BEZEL - SUPER MULTI	42.RYNN5.003
	ODD BEZEL - BD	42.RYNN5.004
	ODD BRACKET	33.RYNN5.003

Table 6-2. FRU List (Continued)

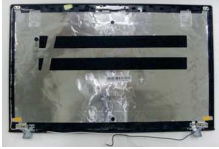
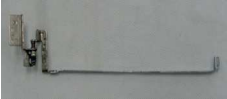
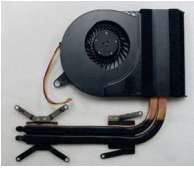
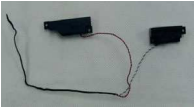
Category	Acer Description	Acer Part No
LCD		
	LED LCD AUO 17.3" WXGA+ Glare B173RTN01.1 LF 200nit 8ms 500:1 (eDP)	LK.17305.004
	LED LCD LPL 17.3" WXGA+ Glare LP173WD1-TPA1 LF 220nit 8ms 500:1	LK.17308.005
	LED LCD AUO 17.3" WXGA+ Glare B173RW01-V3 LF 220nit 8ms 500:1	LK.17305.002
	LED LCD LPL 17.3" WXGA+ Glare LP173WD1-TLA4 LF 220nit 8ms 600:1	LK.17308.004
	LED LCD CMO 17.3" WXGA+ Glare N173FGE-L21 LF 220nit 8ms 650:1	LK.1730D.002
	LCD COVER ASSY BLACK W/ANTENNA	60.RYNN5.004
	LCD COVER ASSY GRAY W/ANTENNA	60.M0MN5.002
	LCD COVER ASSY BLACK W/ANTENNA	60.M0MN5.002
	LCD BEZEL	60.RYNN5.005
	LCD BRACKET W/HINGE - R	33.RYNN5.004
	LCD BRACKET W/HINGE - L	33.RYNN5.005
	Liteon 1.3M HD LT_2659_AU	AM.21400.095
	Suyin 1.3M HD SY_2659_AU	AM.21400.097
	Liteon 1.3M HD LT_SONY119_SP	AM.21400.116
	Chicony 1.3M HD CH_SONY119_SP	AM.21400.117
	Suyin 1.3M HD SY_SONY119_SP	AM.21400.122
	LVDS CABLE	50.RYNN5.004
	LVDS CABLE -eDP	50.RYNN5.005

Table 6-2. FRU List (Continued)

Category	Acer Description	Acer Part No
MAINBOARD		
	Mainboard V3-771 LF UMA W/O CPU RAM	NB.RYR11.001
	Mainboard V3-771 LF N13PGL-1GB W/O CPU RAM	NB.RYN11.001
	Mainboard V3-771 LF N13PGL-2GB W/O CPU RAM	NB.RYP11.001
	Mainboard V3-771 LF N13PGS-2GB W/O CPU RAM	NB.RYQ11.001
	Mainboard V3-771 LF N13PGT-2GB W/O CPU RAM	NB.M0S11.001
MEMORY		
	Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S13C9G LF+HF	KN.2GB07.006
	Memory NANYA SO-DIMM DDRIII 1333 2GB NT2GC64B88G0NS-CG LF+HF	KN.2GB03.025
	Memory NANYA SO-DIMM DDRIII 1333 4GB NT4GC64B8HG0NS-CG LF+HF 46nm	KN.4GB03.009
	Memory ELPIDA SO-DIMM DDRIII 1600 4GB EBJ40UG8BBU0-GN-F LF+HF 512*8 38nm	KN.4GB09.005
	Memory MICRON SO-DIMM DDRIII 1333 2GB MT8KTF25664HZ-1G4M1 LF+HF 256*8 46nm V79D	KN.2GB04.019
	Memory ELPIDA SO-DIMM DDRIII 1600 2GB EBJ20UF8BDU0-GN-F LF+HF 256*8 38nm	KN.2GB09.012
	Memory A-DATA SO-DIMM DDRIII 1333 2GB AD73I1B0873EV LF+HF	KN.2GB0C.008
	Memory HYNIX SO-DIMM DDRIII 1333 2GB HMT325S6CFR8C-H9 LF+HF 256x8 38nm	KN.2GB0G.031
	Memory MICRON SO-DIMM DDRIII 1333 4GB MT16KTF51264HZ-1G4M1 LF+HF 256*8 46nm V79D	KN.4GB04.005
	Memory KINGSTON SO-DIMM DDRIII 1333 4GB ACR512X64D3S13C9G LF+HF	KN.4GB07.001
	Memory A-DATA SO-DIMM DDRIII 1333 4GB AD73I1C1674EV LF+HF	KN.4GB0C.001
	Memory HYNIX SO-DIMM DDRIII 1333 4GB HMT351S6CFR8C-H9 LF+HF 256x8 38nm	KN.4GB0G.012

Table 6-2. FRU List (Continued)

Category	Acer Description	Acer Part No
HEATSINK		
	THERMAL MODULE - UMA	60.RYRN5.001
	THERMAL MODULE - GL 35W	60.RYNN5.006
	THERMAL MODULE - GS 45W	60.RYQN5.001
	THERMAL MODULE - GT 45W	60.M0SN5.001
SPEAKER		
	SPEAKER SET	23.RYNN5.001
Others		
	LCD BEZEL SCREW MYLAR	47.RYNN5.001
	ACETATE FOR K-LOCK	47.RYNN5.002
	ACETATE FOR LENS	47.RYNN5.003
	ACETATE FOR MB	47.RYNN5.004