

TravelMate 7720/7320 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

Revision History

Please refer to the table below for the updates made on TravelMate 7720/7320 Series 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. |

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 Panel | 8 |
| Bottom Panel | 9 |
| Indicators | 9 |
| Easy-Launch Buttons | 10 |
| Touchpad Basics | 11 |
| Using the Keyboard | 13 |
| Lock Keys and embedded numeric keypad | 13 |
| Windows Keys | 14 |
| Hot Keys | 15 |
| Special Key | 16 |
| Acer Empowering Technology | 17 |
| Empowering Technology password | 17 |
| Acer eNet Management | 17 |
| Acer ePower Management | 19 |
| Acer ePresentation Management | 20 |
| Acer eDataSecurity Management | 21 |
| Acer eLock Management | 22 |
| Acer eRecovery Management | 23 |
| Acer eSettings Management | 24 |
| Windows Mobility Center | 25 |
| Using the System Utilities | 26 |
| Acer Bio-Protection (for selected models) | 26 |
| NTI Shadow | 26 |
| Acer GridVista (dual-display compatible) | 27 |
| Launch Manager | 28 |
| Norton Internet Security | 28 |
| Hardware Specifications and Configurations | 30 |
| System Utilities | 41 |
| BIOS Setup Utility | 41 |
| Navigating the BIOS Utility | 42 |
| Information | 43 |
| Main | 44 |
| Advanced | 46 |
| Security | 47 |
| Boot | 51 |
| Exit | 52 |
| BIOS Flash Utility | 53 |
| Remove HDD/BIOS Utility | 54 |
| Machine Disassembly and Replacement | 59 |
| Disassembly Requirements | 59 |
| General Information | 60 |
| Pre-disassembly Instructions | 60 |
| Disassembly Process | 60 |
| External Module Disassembly Process | 61 |

Table of Contents

| | |
|--|-----|
| External Modules Disassembly Flowchart | 61 |
| Removing the Battery Pack | 62 |
| Removing the SD dummy card | 63 |
| Removing the PC and ExpressCard dummy cards | 63 |
| Removing the Lower Cover | 64 |
| Removing the Secondary HDD Cover | 65 |
| Removing the Secondary HDD Bracket and Connector | 66 |
| Removing the DIMM 68 | |
| Removing the WLAN Board Modules | 68 |
| Removing the Hard Disk Drive Module | 69 |
| Removing the Optical Drive Module | 70 |
| Main Unit Disassembly Process | 73 |
| Main Unit Disassembly Flowchart | 73 |
| Removing the Modem Board | 73 |
| Removing the Heatsink Fan Module | 74 |
| Removing the CPU and VGA Heatsink Module | 75 |
| Removing the CPU | 77 |
| Removing the VGA board (for Discrete model only) | 77 |
| Removing the Middle Cover and the Power Board | 78 |
| Removing the Keyboard | 80 |
| Removing the LCD Module | 81 |
| Separating the Upper Case from the Lower Case | 84 |
| Removing the Launch Board | 86 |
| Removing the Touch Pad Board Module | 87 |
| Removing the Main Board | 90 |
| Removing the ODD Board Module | 92 |
| Removing the Speaker Modules | 93 |
| Removing the USB Board | 94 |
| LCD Module Disassembly Process | 96 |
| LCD Module Disassembly Flowchart | 96 |
| Main Screw List | 96 |
| Removing the LCD Bezel | 97 |
| Removing the LCD module with the Brackets | 98 |
| Removing the Inverter Board and FPC Cable | 99 |
| Removing the LCD Brackets | 100 |
| Removing the Left and Right Hinge | 101 |
| Removing the Antennas | 101 |
| Removing the Internal Microphone and Web Camera | 102 |

Troubleshooting

105

| | |
|--|-----|
| System Check Procedures | 106 |
| External Diskette Drive Check | 106 |
| External CD-ROM Drive Check | 106 |
| Keyboard or Auxiliary Input Device Check | 106 |
| Memory check | 107 |
| Power System Check | 107 |
| Touchpad Check | 109 |
| Power-On Self-Test (POST) Error Message | 110 |
| Index of Error Messages | 111 |
| Phoenix BIOS Beep Codes | 114 |
| Index of Symptom-to-FRU Error Message | 119 |
| Intermittent Problems | 123 |
| Undetermined Problems | 124 |
| Top View | 125 |

Table of Contents

| | |
|--|------------|
| Jumper and Connector Locations | 125 |
| Bottom View | 126 |
| FRU (Field Replaceable Unit) List | 129 |
| TravelMate 7720/7320 Exploded Diagram | 130 |
| TravelMate 7720/7320 Series | 140 |
| Model Definition and Configuration | 140 |
| Test Compatible Components | 163 |
| Microsoft® Windows® Vista Environment Test | 164 |
| Online Support Information | 167 |

Table of Contents

System Specifications

Features

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

Platform and memory

- ❑ Intel® Centrino® Duo mobile processor technology, featuring: (for selected models)
 - ▶ Intel® Core™2 Duo Mobile Processor T7300/T7500/T7700 (4 MB L2 cache, 2/2.2/2.4 GHz, 800 MHz FSB), or T7100 (2 MB L2 cache, 1.8 GHz, 800 MHz FSB), or higher, supporting Intel® 64 architecture (for selected models)
 - ▶ Mobile Intel® PM965/GM965/GL960 Express Chipset (for selected models)
 - ▶ Intel® Wireless WiFi Link 4965AGN (dual-band quad-mode 802.11a/b/g/Draft-N) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ with InviLink™ Nplify™ wireless technology (for selected models)
 - ▶ Intel® PRO/Wireless 3945ABG (dual-band tri-mode 802.11a/b/g) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ wireless technology (for selected models)
- ❑ Intel® Celeron® processor 530/540/550 (1 MB L2 cache, 1.73/1.86/2.0 GHz, 533 MHz FSB) or higher, supporting Intel® 64 architecture (for selected models)
- ❑ Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED® solution, supporting Acer SignalUp™ wireless technology (for selected models)
- ❑ Acer InviLink™ 802.11a/b/g/Draft-N Wi-Fi CERTIFIED® solution, supporting Acer SignalUp™ with Nplify™ wireless technology (for selected models)
- ❑ Up to 2 GB of DDR2 667 MHz memory (for TM7320), upgradeable to 4 GB using two soDIMM modules (dual-channel support)

Display and graphics

- ❑ 17" WXGA+ TFT LCD, 1400 x 900 pixel resolution, supporting simultaneous multi-window viewing via Acer GridVista™
- ❑ Mobile Intel® GM965/GL960 Express Chipset with integrated 3D graphics, featuring Intel® Graphic Media Accelerator (GMA) X3100 with up to 358 MB of Intel® Dynamic Video Memory Technology 4.0 (8MB of dedicated system memory, up to 350MB of shared system memory), supporting Microsoft® DirectX® 9 and DirectX® 10 (for selected models)
- ❑ ATI Mobility™ Radeon® HD 2600/HD 2400 XT with up to 1024MB of HyperMemory™ (512/256 MB of dedicated GDDR2 VRAM, up to 768 MB of shared system memory) supporting Microsoft® DirectX® 9 and DirectX® 10 and PCI Express® (for selected models)
- ❑ Dual independent display support
- ❑ 16.7 million colors
- ❑ MPEG-2/DVD hardware-assisted capability
- ❑ S-video/TV-out (NTSC/PAL) support
- ❑ DVI-D (true digital video interface) support (for selected models)

Storage subsystem

- ❑ One or two 80/120/160 GB or larger hard disk drive with enhanced Acer DASP (Disk Anti-Shock Protection) (for selected models)
- ❑ 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)

Input devices

- ❑ 105-/106-key keyboard with inverted "T" cursor layout, 2.5 mm (minimum) key travel
- ❑ Seamless touchpad pointing device with Acer Bio-Protection fingerprint reader supporting Acer FingerNav 4-way control function (manufacturing option)
- ❑ Seamless touchpad pointing device with 4-way scroll button (manufacturing option)
- ❑ 12 function keys, four cursor keys, two Windows® keys, hotkey controls, embedded numeric keypad, international language support, independent Euro and US dollar sign keys
- ❑ Easy-launch buttons: Acer Empowering Key, Internet, email, user-programmable
- ❑ Productivity keys: Lock, Presentation, Sync
- ❑ Front-access communication switches: WLAN and Bluetooth®

Audio

- ❑ Two built-in Acer 3DSonic stereo speakers
- ❑ Intel® High Definition Audio support
- ❑ Built-in microphone
- ❑ MS-Sound compatible

Communication

- ❑ Acer Video Conference featuring:
 - Integrated Acer CrystalEye webcam supporting enhanced Acer PrimaLite™ technology
 - Optional Acer Xpress VoIP phone
- ❑ WLAN: Intel® Wireless WiFi Link 4965AGN (dual-band quad-mode 802.11a/b/g/Draft-N) network connection, supporting Acer SignalUp™ with InviLink™ Nplify™ wireless technology (for selected models), or Intel® PRO/Wireless 3945ABG (dual-band tri-mode 802.11a/b/g) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ wireless technology (for selected models), or Acer InviLink 802.11b/g Wi-Fi CERTIFIED® solution, supporting Acer SingalUp™ wireless technology (for selected models)
- ❑ WPAN: Bluetooth® 2.0+EDR (Enhanced Data Rate)
- ❑ LAN: Gigabit Ethernet; Wake-on-LAN ready
- ❑ Modem: 56K ITU V.92 with PTT approval; Wake-on-Ring ready

I/O Ports

- ❑ ExpressCard™/54 slot
- ❑ PC Card slot (one Type II)
- ❑ 5-in-1 card reader (MS/MS PRO/MMC/SD/xD)
- ❑ Four USB 2.0 ports
- ❑ DVI-D port (for selected models)
- ❑ IEEE 1394 port
- ❑ Fast Infrared (FIR) port (for selected models)
- ❑ External display (VGA) port
- ❑ S-video/TV-out (NTSC/PAL) port
- ❑ Headphones/speaker/line-out jack
- ❑ Line-in jack

-
- ❑ Microphone jack
 - ❑ Ethernet (RJ-45) port
 - ❑ Modem (RJ-11) port
 - ❑ DC-in jack for AC adaptor

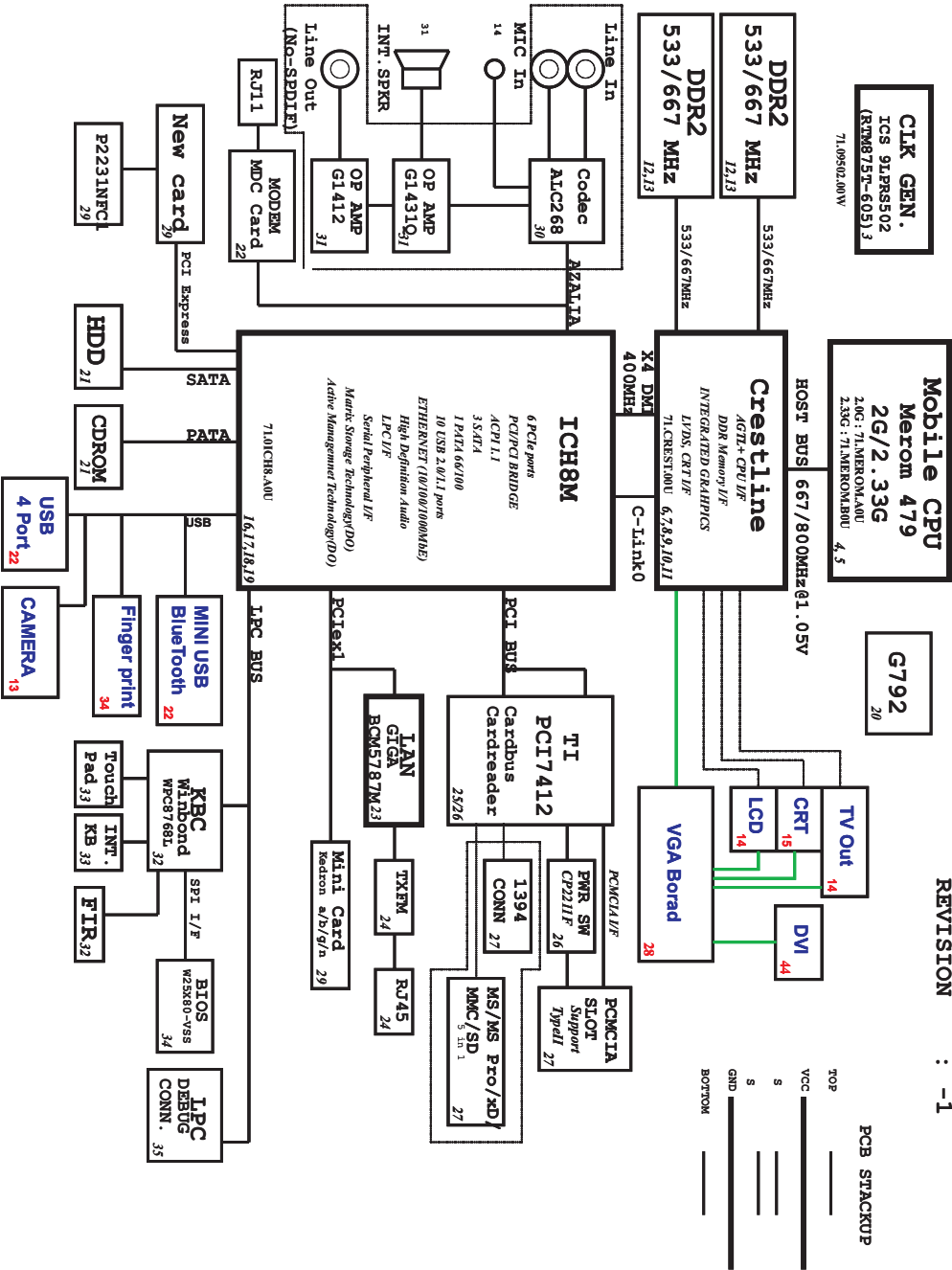
Environment

- ❑ 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%

System Block Diagram

Columbia/Tangiz Block Diagram

Project code : 91.4T301.001
 PCB P/N : 48.4T301.011
 REVISION : -1

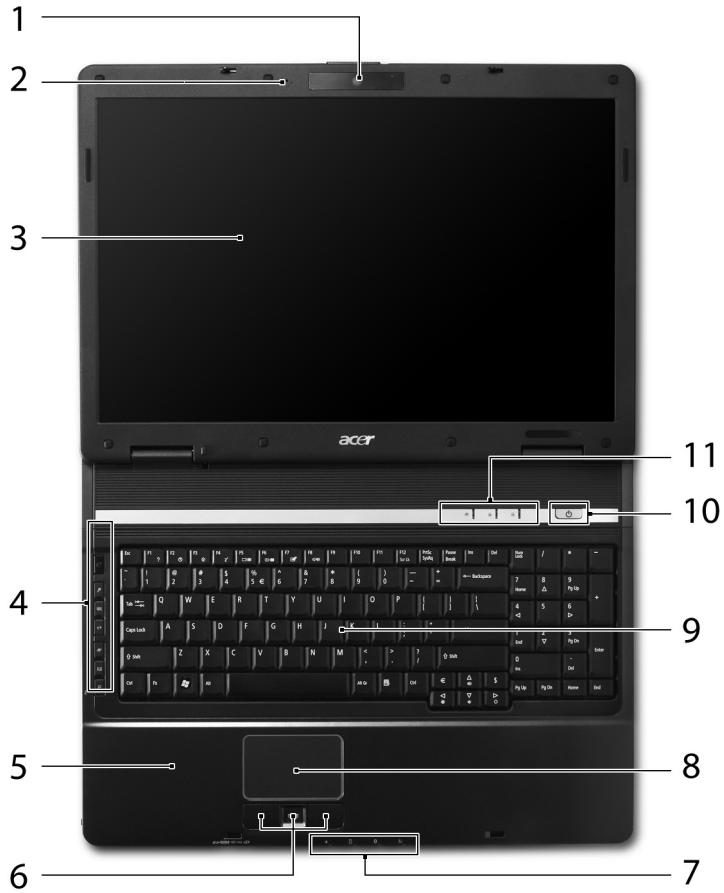


| SYSTEM DC/DC | MAX8744 | 38 |
|----------------|---|-------|
| INPUTS | OUTPUTS | |
| DEBANDOUT | 5V_5S (6A) 30V_5S (7A) | |
| SYSTEM DC/DC | MAX8717 | 39 |
| INPUTS | OUTPUTS | |
| DEBANDOUT | 1.00V_50 (9.5A) 1.80V_50 (6.5A) 1.80V_50 (6.5A) | |
| TPS51100 | 41 | |
| 1.8V_50 (1.5A) | DDR_VREF_50 | |
| DDR_VREF_53 | DDR_VREF_53 | |
| APL5915 | 41 | |
| 1.00V_50 (2A) | 1.00V_50 | |
| APL531230 | 30V_50 | |
| 30V_50 (3.00A) | APM5912 | |
| 40 | APM5912 | |
| 30V_50 (1.5A) | 1.00V_50 | |
| IS16255 | 41 | |
| INPUTS | OUTPUTS | |
| DEBANDOUT | CHG_PMR 1.8V 4.0A UP+5V 5V 1.00A | |
| CPU DC/DC | MAX8770 | 35,36 |
| INPUTS | OUTPUTS | |
| DEBANDOUT | VCC_CORE_50 0-1.3V 47A | |

Your Acer Notebook tour

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

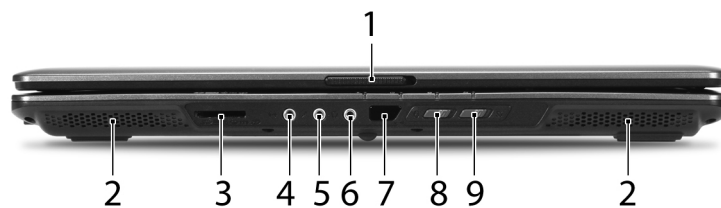
Front View




| | Icon | Item | Description |
|---|------|---------------------|---|
| 1 | | Acer CrystalEye | 0.3 megapixel web camera for video communication. |
| 2 | | Microphone | Internal microphone for sound recording. |
| 3 | | Display screen | Also called Liquid-Crystal Display (LCD), displays computer output. |
| 4 | | Easy-launch buttons | Buttons for launching frequently used programs. |
| 5 | | Palmrest | Comfortable support area for your hands when you use the computer. |

| | Icon | Item | Description |
|----|------|---|--|
| 6 | | 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 BioProtect fingerprint reader supporting Acer FingerNav 4-way control function (manufacturing option) or a 4-way scroll button (manufacturing option). |
| 7 | | Status indicators | Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components. |
| 8 | | Touchpad | Touch-sensitive pointing device which functions like a computer mouse. |
| 9 | | Keyboard | For entering data into your computer. |
| 10 | | Power button | Turns the computer on and off. |
| 11 | | Status indicators | Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components. |

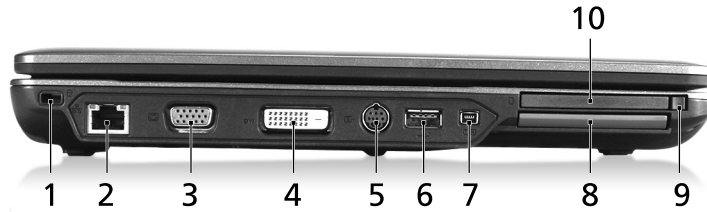
Closed Front View









| | Icon | Item | Description |
|---|------|----------------------------------|--|
| 1 | | Latch | Locks and releases the lid. |
| 2 | | Speakers | Left and right speakers deliver stereo audio output. |
| 3 | | 5-in-1 card reader | Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick Pro (MS PRO), and xD-Picture Card. Note: Only one card can operate at any given time. |
| 4 | | Line-in jack | Accepts audio line-in devices (e.g., audio CD player, stereo walkman, mp3 player) |
| 5 | | Microphone jack | Accepts inputs from external microphones. |
| 6 | | Headphones/speaker/line-out jack | Connects to audio line-out devices (e.g., speakers, headphones). |
| 7 | | Infrared port | Interfaces with infrared devices (e.g., infrared printer and IR-aware computer). |
| 8 | | Bluetooth communication switch | Enable/disable the Bluetooth function. Indicates the status of Bluetooth communication (manufacturing option). |

| | Icon | Item | Description |
|---|---|-------------------------------|--|
| 9 |  | Wireless communication switch | Enable/disable the wireless function. Indicates the status of wireless LAN communication (manufacturing option). |

Left View



| # | Icon | Item | Description |
|----|---|--------------------------------|---|
| 1 |  | Kensington lock slot | Connects to a Kensington-compatible computer security lock. |
| 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 | DVI-D | DVI-D port | Supports digital video connections. |
| 5 | | S-Video/TV-out (NTSC/PAL) port | Connects to a television or display device with S-video input. |
| 6 |  | USB 2.0 port | Connects to USB 2.0 devices (e.g., USB mouse, USB camera). |
| 7 |  | IEEE 1394 port | Connects to IEEE 1394 devices. |
| 8 | EXPRESS CARD | ExpressCard/54 slot | Accepts one ExpressCard/54 module. |
| 9 | | PC Card slot eject button | Ejects the PC Card from the slot. |
| 10 |  | PC Card slot | Accepts one Type II PC Card. |




Right View



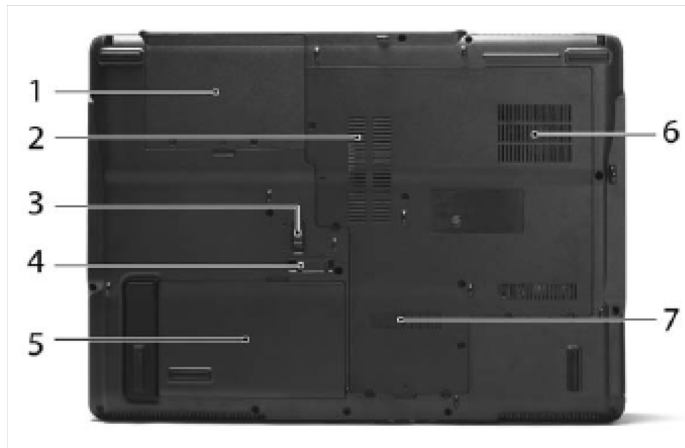
| | Icon | Item | Description |
|---|------|-------------------------------|--|
| 1 | | Optical drive | Internal optical drive; accepts CDs or DVDs |
| 2 | | Optical disk access indicator | Lights up when the optical drive is active. |
| 3 | | Optical drive eject button | Ejects the optical disk from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

Rear Panel



| # | Icon | Item | Description |
|---|---|---------------------|---|
| 1 |  | Three USB 2.0 ports | Connect to USB 2.0 devices (e.g., USB mouse, USB camera). |
| 2 |  | Modem (RJ-11) port | Connects to a phone line. |
| 3 |  | DC-in jack | Connects to an AC adapter. |
| 4 | | Ventilation slots | Enable the computer to stay cool, even after prolonged use. |

Bottom Panel










| | Icon | Item | Description |
|---|------|-----------------------|--|
| 1 | | Second Hard disk bay | Houses the computer's optional second hard disk. (Secured with a screw). |
| 2 | | Memory compartment | Houses the computer's main memory. |
| 3 | | Battery lock | Locks the battery in position. |
| 4 | | Battery release latch | Releases the battery to remove the battery pack. |
| 5 | | Battery bay | Houses the computer's battery pack. |
| 6 | | Ventilation slots | Enable the computer to stay cool, even after prolonged use. |
| 7 | | Hard disk bay | Houses the computer's hard disk (secured with screws) |

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. |
|  | Bluetooth | Indicates the status of Bluetooth communication. |
|  | Wireless LAN | Indicates the status of wireless LAN communication. |
|  | 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

There are several conveniently located easy-launch buttons. They are: mail Web browser, Empowering Key “e” and one user-programmable button.

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






| Launch key | Default application |
|---|--|
|  | Acer Empowering Technology (user-programmable) |
|  | Email application (user-programmable) |

| Launch key | Default application |
|---|--------------------------------------|
|  | Internet browser (user-programmable) |
| P | User-programmable |

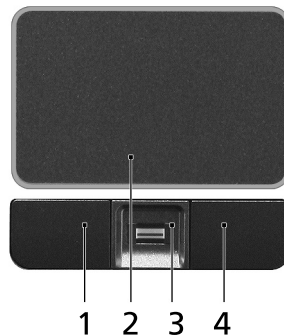
Three productivity keys give users one-touch access to protection and manageability features for a more secure, smarter and easier way to work.

- Lock key - runs the Windows® lock function to lock the notebook when you step out. If the laptop is equipped with Acer BioProtect, you only need to swipe your finger to log into Windows® again.
- Presentation key - minimizes open application windows and prepares the display for impressive presentations.
- Sync key - instantly synchronizes your computer system to an external storage device, for convenient and secure backup.

| Icon | Productivity key | Default application |
|---|------------------|--|
|  | Lock | Launch Windows Lock function |
|  | Presentation | Minimizes your open windows and prepares your display for presenting |
|  | Sync | Launch NTI Shadow |

Touchpad Basics

The following teaches you how to use the touchpad:



- Move your finger across the touchpad (2) to move the cursor.
- Press the left (1) and right (4) buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.
- Use the 4-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 | Click twice quickly | | Tap twice (at the same speed as double-clicking the mouse button) | |
| Select | Click once | | Tap once | |
| Drag | Click and hold, then use finger to drag the cursor on the touchpad | | Tap twice (at the same speed as double-clicking a mouse button) then hold finger to the touchpad on the second tap to drag the cursor. | |
| Access context menu | | Click once | | |
| Scroll | | | | Click and hold to move up/down/left/right. |

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

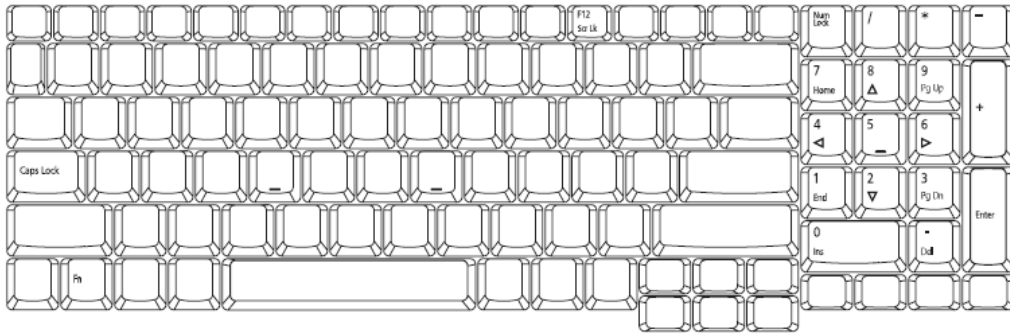
NOTE: By default, vertical and horizontal scrolling is enabled on your touchpad. It can be disabled under Mouse settings in Windows Control Panel.

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

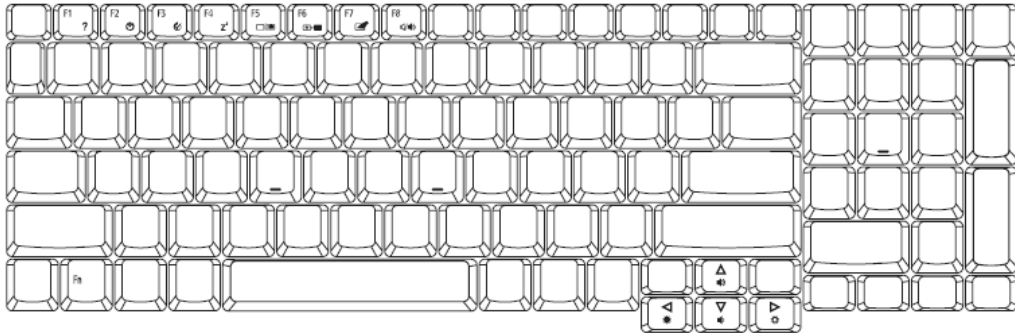
The keyboard has two keys that perform Windows-specific functions.

| Key | Description | Key |
|---|---|---|
|  Windows key | <p>Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu.</p> <p>It can also be used with other keys to provide a variety of functions:</p> <p><  >: Open or close the Start menu</p> <p><  > + <D>: Display the desktop</p> <p><  > + <E>: Open Windows Explore</p> <p><  > + <F>: Search for a file or folder</p> <p><  > + <G>: Cycle through Sidebar gadgets</p> <p><  > + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain)</p> <p><  > + <M>: Minimizes all windows</p> <p><  > + <R>: Open the Run dialog box</p> <p><  > + <T>: Cycle through programs on the taskbar</p> <p><  > + <U>: Open Ease of Access Center</p> <p><  > + <X>: Open Windows Mobility Center</p> <p><  > + <BREAK>: Display the System Properties dialog box</p> <p><  > + <SHIFT+M>: Restore minimized windows to the desktop</p> <p><  > + <TAB>: Cycle through programs on the taskbar by using Windows Flip 3-D</p> <p><  > + <SPACEBAR>: Bring all gadgets to the front and select Windows Sidebar</p> <p><CTRL> + <  > + <F>: Search for computers (if you are on a network)</p> <p><CTRL> + <  > + <TAB>: Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D</p> <p>Note: Depending on your edition of Windows Vista, some shortcuts may not function as described.</p> |  Windows key |
|  Application key | <p>This key has the same effect as clicking the right mouse button; it opens the application's context menu.</p> |  Application key |

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.

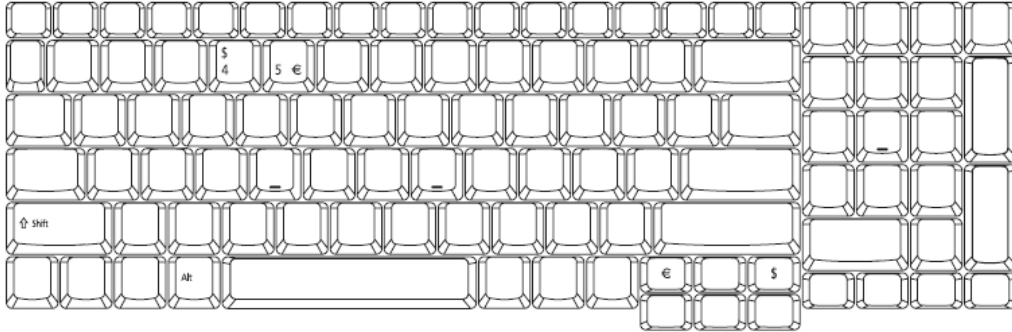
To activate hot keys, press and hold the <Fn> key before pressing the other key in the hotkey combination.



| Hotkey | Icon | Function | Description |
|-------------|------|------------------------|---|
| <Fn> + <F1> | ? | Hotkey help | Displays help on hotkeys. |
| <Fn> + <F2> | | Acer eSettings | Launches Acer eSettings in Acer Empowering Technology. |
| <Fn> + <F3> | | Acer ePower Management | Launches Acer ePower Management in Acer Empowering Technology. |
| <Fn> + <F4> | Zz | 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> | | 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 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. Either press <€> at the bottom-right of the keyboard, or hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.

The US dollar sign

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

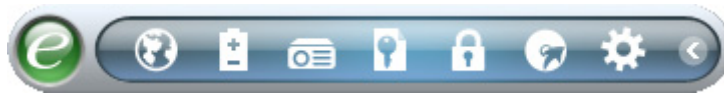
NOTE: This function varies by the operating system version.

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

Acer Empowering Technology

The Empowering Technology toolbar makes it easy for you to access frequently used functions and manage your new Acer system. Displayed by default in the upper half of your screen, it provides access to the following utilities:

- Acer eNet Management** hooks up to location-based networks intelligently.
- Acer ePower Management** optimizes battery usage via customizable power plans.
- Acer ePresentation Management** connects to a projector and adjusts display settings.
- Acer eDataSecurity Management** protects data with passwords and encryption.
- Acer eLock Management** limits access to external storage media.
- Acer eRecovery Management** backs up and recovers data flexibly, reliably and completely.
- Acer eSettings Management** accesses system information and adjusts settings easily.



For more information, right click on the Empowering Technology toolbar, then select the **"Help"** or **"Tutorial"** function.

Empowering Technology password

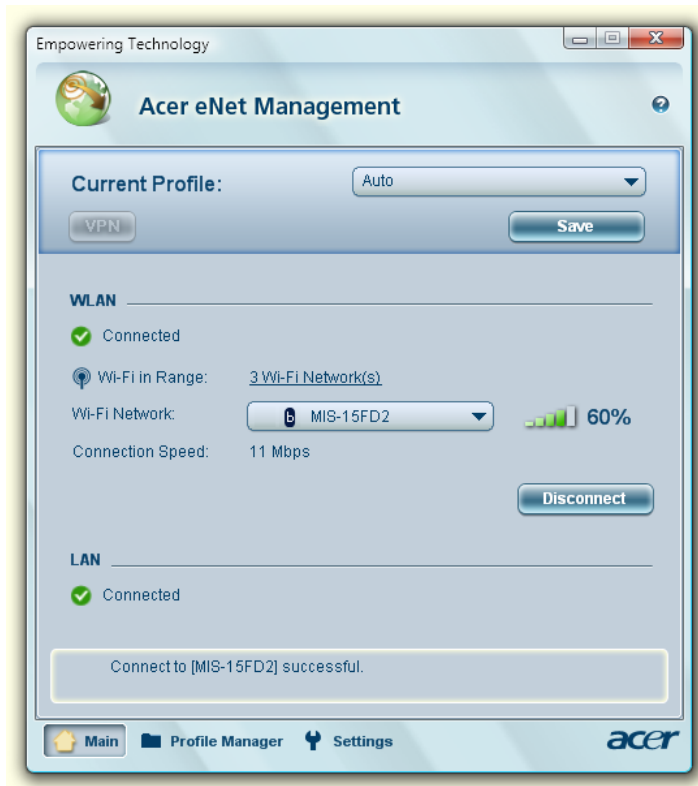
Before using Acer eLock Management and Acer eRecovery Management, you must initialize the Empowering Technology password. Right-click on the Empowering Technology toolbar and select **"Password Setup"** to do so. If you have not initialized the Empowering Technology password and run Acer eLock Management or Acer eRecovery Management, you will be asked to create it.

NOTE: If you lose the Empowering Technology password, there is no way to reset it except by reformatting your system. Make sure to remember or write down your password!

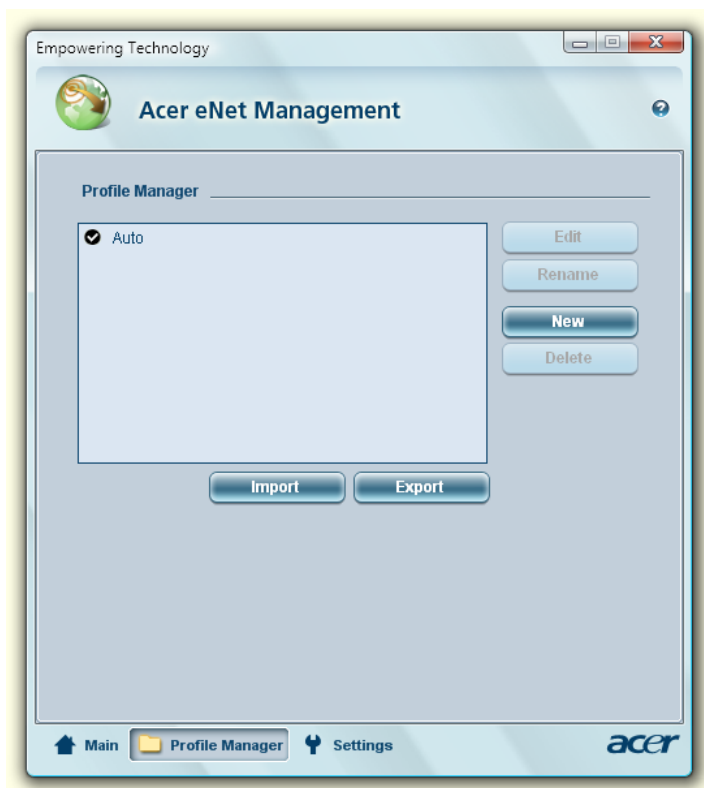
Acer eNet Management

Acer eNet Management helps you quickly connect to both wired and wireless networks in a variety of locations. To access this utility, select **"Acer eNet Management"** from the Empowering Technology toolbar or run the program from the Acer Empowering Technology program group in Start menu. You can also set Acer eNet Management to start automatically when you boot up your PC.

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



Acer eNet Management can save network settings for a location to a profile, and automatically switch to the appropriate profile when you move from one location to another. Settings stored include network connection settings (IP and DNS settings, wireless AP details, etc.), as well as default printer settings. Security and safety concerns mean that Acer eNet Management does not store username and password information.



Acer ePower Management

Acer ePower Management features a straightforward user interface for configuring your power management options. To access this utility, select "**Acer ePower Management**" from the Empowering Technology toolbar, run the program from the Acer Empowering Technology program group in Start menu, or right-click the Windows power icon in the system tray and select "**Acer ePower Management**".

Using power plans


Acer ePower Management comes with three predefined power plans: Balanced, High performance and Power saver. You can also create customized power plans. You can create, switch between, edit, delete and restore power plans, as described below.

View and adjust settings for On Battery and Plugged In modes by clicking the appropriate tabs. You can open Windows power options by clicking "**More Power Options**".

NOTE: You cannot delete the predefined power plans.

To create a new power plan:

Creating customized power plans allows you to save and quickly switch to a personalized set of power options.

1. Click the Create Power Plan icon. 
2. Enter a name for your new power plan.
3. Choose a predefined power plan to base your customized plan on.
4. If necessary, change the display and sleep settings you want your computer to use.
5. Click "**OK**" to save your new power plan.

To switch between power plans:

1. Select the power plan you wish to switch to from the drop-down list.
2. Click "**Apply**".


To edit a power plan:

Editing a power plan allows you to adjust system settings like LCD brightness and CPU speed. You can also turn on/off system components to extend battery life.

1. Switch to the power plan you wish to edit
2. Adjust settings as required.
3. Click "**Apply**" to save your new settings.


To delete a power plan:

You cannot delete the power plan you are currently using. If you want to delete the active power plan, switch to another one first.

1. Select the power plan you wish to delete from the drop-down list.
2. Click the Delete Power Plan icon. 

Battery status

For real-time battery life estimates based on current usage, refer to the panel in the upper half of the window.

Click the  to view estimated battery life in sleep and hibernate modes.



Acer ePresentation Management

Acer ePresentation Management lets you project your computer's display to an external display device or projector using the hotkey: **<Fn> + <F5>**. If auto-detection hardware is implemented in the system and the external display supports it, your system display will be automatically switched out when an external display is

connected to the system. For projectors and external devices that are not auto-detected, launch Acer ePresentation Management to choose an appropriate display setting.



NOTE: If the restored resolution is not correct after disconnecting a projector, or you need to use an external resolution that is not supported by Acer ePresentation Management, adjust your display settings using Display Properties or the utility provided by the graphics vendor.

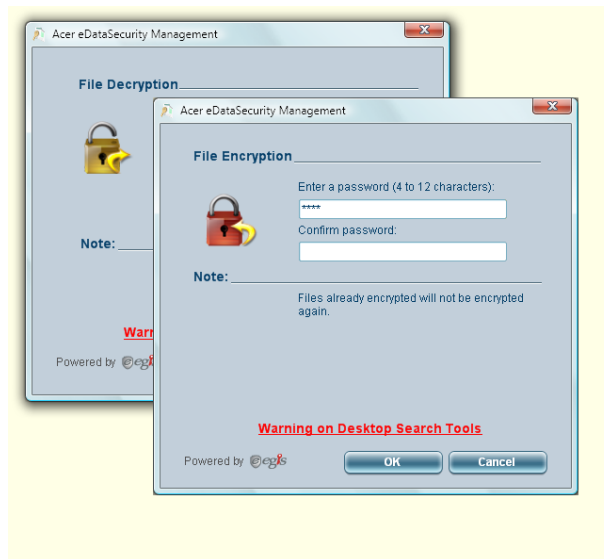
Acer eDataSecurity Management

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

The Acer eDataSecurity Management setup wizard will prompt you for a supervisor password and default encryption password. This password will be used to encrypt files by default, or you can choose to enter your own 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!**



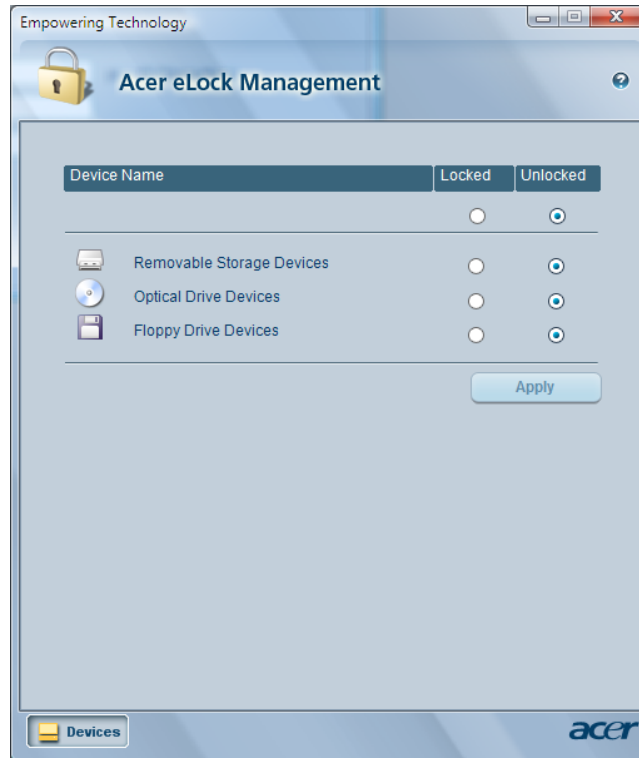
Acer eLock Management

Acer eLock Management is simple yet effective utility that allows you to lock removable storage, optical and floppy drive devices to ensure that data can't be stolen while your system is unattended.

- Removable Storage 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 storage devices that can be mounted as a file system when plugged into the system.
- Optical Drive Devices — includes any kind of CD-ROM, DVD-ROM, HD-DVD or Blu-ray drive devices.
- Floppy Drive Devices — 3.5-inch floppy drives only.

To use Acer eLock Management, the Empowering Technology password must be set first. Once set, you can apply locks to any of the devices types. Lock(s) will immediately be set without any reboot necessary, and will remain after rebooting, until removed.

NOTE: If you lose the Empowering Technology password, there is no method to reset it except by reformatting your system. Make sure to remember or write down your password.

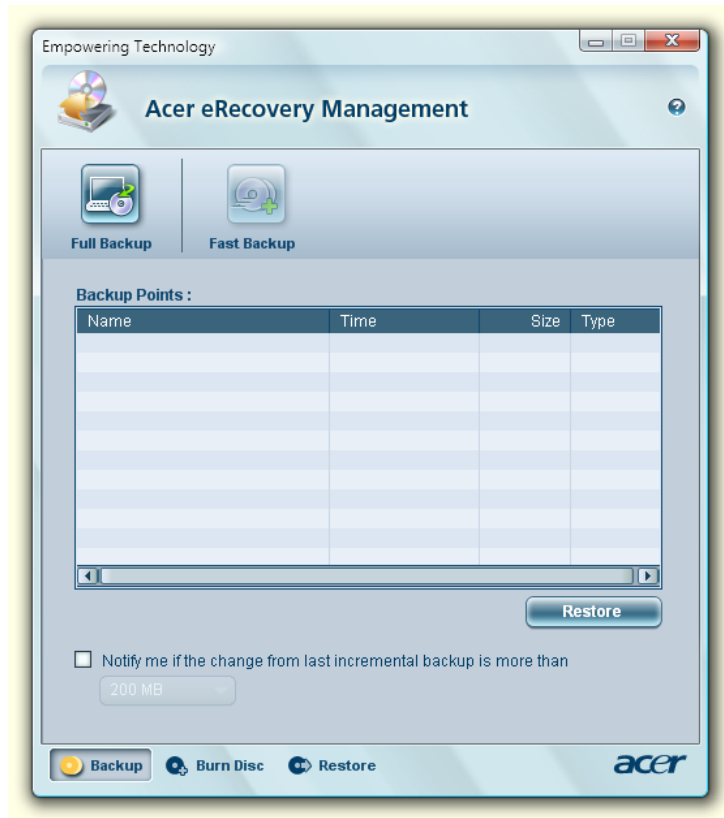


Acer eRecovery Management

Acer eRecovery Management is a versatile backup utility. It allows you to create full or incremental backups, burn the factory default image to optical disc, and restore from previously created backups or reinstall applications and drivers. By default, user-created backups are stored to the D:\ drive.

Acer eRecovery Management provides you with:

- Password protection (Empowering Technology password)
- Full and incremental backups to hard disk or optical disc
- Creation of backups:
 - ✦ Factory default image
 - ✦ User backup image
 - ✦ Current system configuration
 - ✦ Application backup
- Restore and recovery:
 - ✦ Factory default image
 - ✦ User backup image
 - ✦ From previously-created CD/DVD
 - ✦ Reinstall applications/drivers



For more information, please refer to "Acer eRecovery Management" on page 61 in the **AcerSystem User's Guide**.

NOTE: If your computer did not come with a Recovery CD or System CD, please use Acer eRecovery Management's "System backup to optical disc" feature to burn a backup image to CD or DVD. To ensure the best results when recovering your system using a CD or Acer eRecovery Management, detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

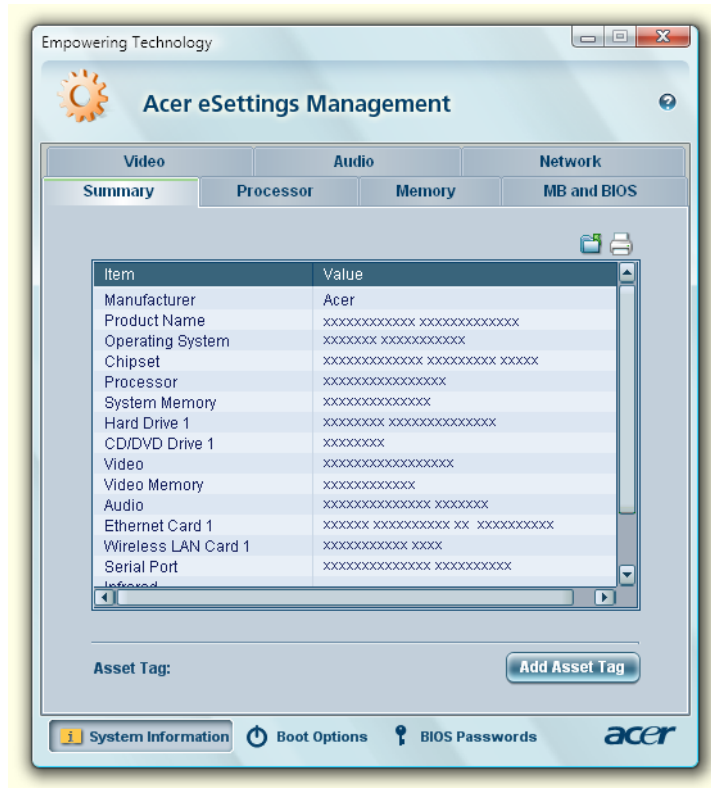
Acer eSettings Management

Acer eSettings Management allows you to inspect hardware specifications, set BIOS passwords and modify boot options.

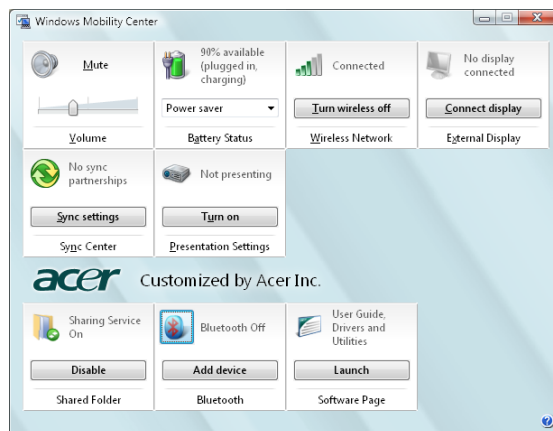
Acer eSettings Management also:

- Provides a simple graphical user interface for navigation.
- Prints and saves hardware specifications.

- ❑ Lets you set an asset tag for your system.



Windows Mobility Center



The Windows Mobility Center collects key mobile-related system settings in one easy-to-find place, so you can quickly configure your Acer system to fit the situation as you change locations, networks or activities. Settings include display brightness, power plan, volume, wireless networking on/off, external display settings, display orientation and synchronization status.

Windows Mobility Center also includes Acer-specific settings like Bluetooth Add Device (if applicable), sharing folders overview/sharing service on or off, and a shortcut to the Acer user guide, drivers and utilities.

To launch Windows Mobility Center:

- ❑ Use the shortcut key <Windows> + <X>
- ❑ Start Windows Mobility Center from the Control panel
- ❑ Start Windows Mobility Center from the Accessories program group in the Start menu.

Using the System Utilities

Acer Bio-Protection (for selected 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 Pre-Boot Authentication (PBA), centralized password management with Password Bank, and fast application/website launching and login with Acer FingerLaunch.

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.



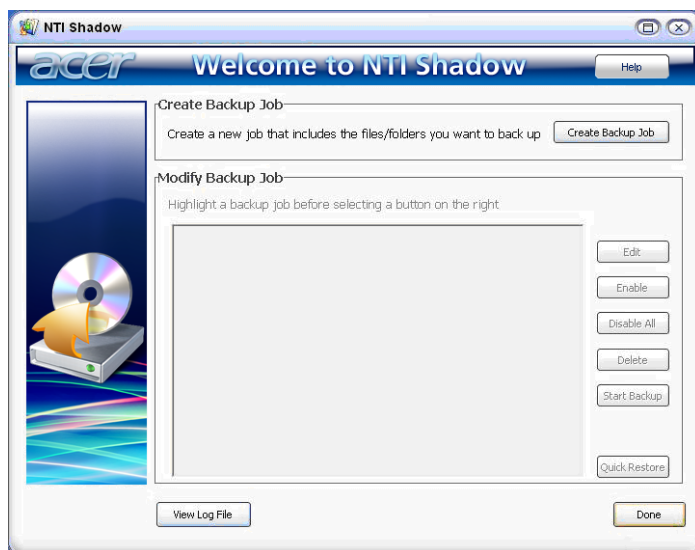
NTI Shadow

NTI Shadow allows users to schedule continuous backup jobs that copy the contents of one or more folders (the "backup source") to another location (the "backup destination"). The backup jobs are continuous because they are scheduled to regularly update the data in the backup folder either continuously or in user-defined intervals. You can schedule a job to run every certain number of minutes, on certain days at a specified time, or whenever any data in the backup source are modified.

Shadow can also be configured to archive file versions. If this option is enabled, then any file that is saved or overwritten will trigger Shadow to archive the previous version of the file. The file versions are stored in a Revisions folder in the backup destination. Users can configure how many versions of a file to maintain.

Shadow supports backups on local hard drives, USB/FireWire external hard drives, USB pen drives, NAS devices, and any drive with drive letter access.

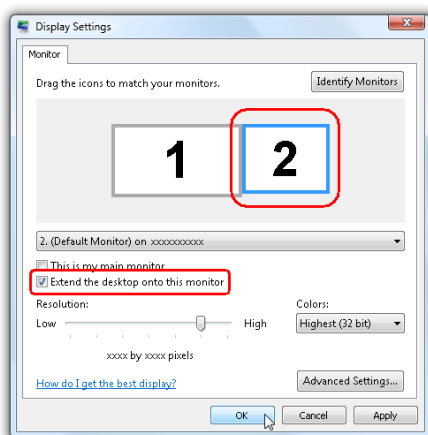
Launching the utility is as easy as pressing one buttons. For more information refer to the NTI Shadow help files.



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:

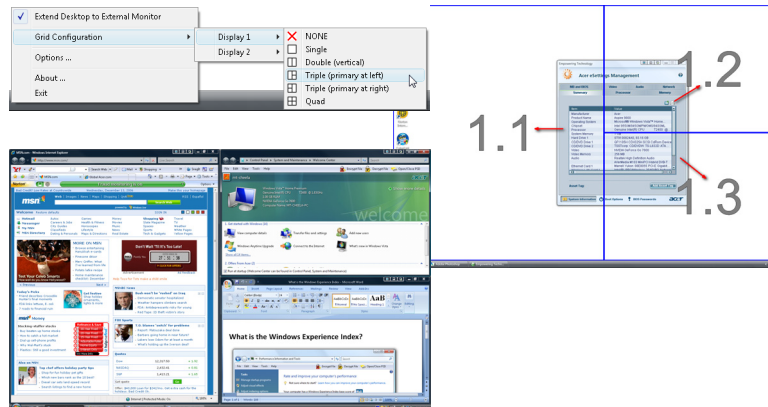


Double (verticle), Triple (primary at left), Triple (primary at right), or Quad Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

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

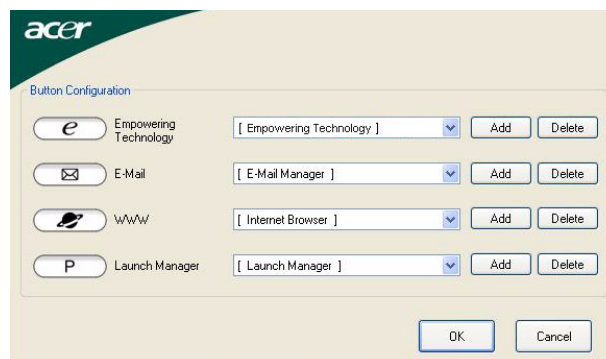
AcerGridVista is simple to set up:

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.

Norton Internet Security

Norton Internet Security is an anti-virus utility that can protect against viruses, keeping your data safe and secure.

How do I check for viruses?

1. Double-click the **Norton Internet Security** icon on the Windows desktop.
2. Select **Tasks & Scans**.

3. Select **Run Scan** to scan your system.



4. When the scan is complete, review the results of the scan.

NOTE: For optimal security, run a Full System Scan when scanning your computer for the first time.

You can schedule customized virus scans that run unattended on specific dates and times or at periodic intervals. If you are using the computer when the scheduled scan begins, it runs in the background so that you do not have to stop working.

For more information refer to the Norton Internet Security help files.

Hardware Specifications and Configurations

Processor

| Item | Specification |
|------------------|---|
| CPU type | Intel® Core™2 Duo Mobile Processor T7300/T7500/T7700 (4 MB L2 cache, 2/2.2/2.4 GHz, 800 MHz FSB), or T7100 (2 MB L2 cache, 1.8 GHz, 800 MHz FSB) Intel® Core™2 Duo Mobile Processor T7200/T7400/T7600 (4 MB L2 cache, 2/2.16/2.33 GHz, 667 MHz FSB), T5500/T5600 (2 MB L2 cache, 1.66/1.83 GHz, 667 MHz FSB) or T5200/T5300 (2 MB L2 cache, 1.60/1.73 GHz, 533 MHz FSB) Intel® Core™ Duo Mobile Processor T2250/T2350/T2450 (2 MB L2 cache, 1.73/1.86/2 GHz, 533 MHz FSB) Intel® Celeron® M processor 520/530 (1 MB L2 cache, 1.6/1.73 GHz, 533 MHz FSB) Intel® Celeron® M processor 440 (1 MB L2 cache, 1.86 GHz, 533 MHz FSB) |
| Core logic | Mobile Intel® PM965/GM965 + ICH8M Express Chipset |
| CPU package | Socket M (FCPGA6) |
| CPU core voltage | 1.0375V to 1.3V |

CPU Fan True Value Table

| DTS(degree C) | Fan Speed (rpm) | Acoustic Level (dBA) |
|---------------|-----------------|----------------------|
| 45-50 | 0-3000 | 29 |
| 55-66 | 0-3300 | 33 |
| 68-74 | 3300-3800 | 38 |
| 78-83 | 3800-4100 | 40 |
| 86-91 | 4100-4800 | 40 |

Throttling 50%: On= 99 ° C; OFF=93 ° C

OS shut down at 105 ° C; H/W shot down at 110 ° .C

BIOS

| Item | Specification |
|-----------------------|---|
| BIOS vendor | Phoenix |
| BIOS Version | 1.02 (MP version) |
| BIOS ROM type | SST/AMD 1MB CMOS Boot Block Flash Memory |
| BIOS ROM size | 1M byte FLASH ROM SST |
| BIOS package | 10-lead TSOP (10mmx20mm) |
| Supported protocols | ACPI 1.0b/2.0/3.0 compliance, PCI 2.2, System/HDD Password Security Control, INT 13H Extensions, PnP BIOS 1.0a SMBIOS 2.4, BIOS Boot Specification, Simple Boot Flag 1.0, Boot Block, PCI Bus Power Management Interface Specification, USB Specification 1.1/2.0, IEEE 1394 1.0, USB/1394 CD-ROM Boot Up support, PC Card Standard 1995 (PCMCIA 3.0 Compliant Device), IrDA 1.0, Intel AC97 CNR Specification, WfM 2.0, PXE 2.1, Boot Integrity Service Application Program Interface (BIS) 1.0, PC99a and Mobile PC2001 Compliant |
| BIOS password control | Set by setup manual |

| Item | Specification |
|------------------|------------------------------|
| Cache controller | Built-in CPU |
| Cache size | 512 KB to 1MB (See CPU type) |

System Memory

| Item | Specification |
|---------------------------------|--|
| Memory controller | Built-in |
| Memory size | 0MB (no on-board memory) |
| DIMM socket number | 2 sockets |
| Supports memory size per socket | 2048MB |
| Supports maximum memory size | 4G for 64bit OS (with two 2GB SODIMM) |
| Supports DIMM type | DDR 2 Synchronous DRAM |
| Supports DIMM Speed | 533/677 MHz |
| Supports DIMM voltage | 1.8V and 0.9V |
| Supports DIMM package | 200-pin soDIMM |
| 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 |

NOTE: Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations. On above table, the configuration of slot 1 and slot 2 could be reversed.

| Item | Specification |
|------------------------|---|
| LAN Chipset | Broadcom 5787M |
| Supports LAN protocol | 10/100/1000 Mbps |
| LAN connector type | RJ45 |
| LAN connector location | Left side |
| Features | Integrated 10/100 BASE-T transceiver Wake on LAN support compliant with ACPI 2.0 PCI v2.2 |

Bluetooth Interface

| Item | Specification |
|-----------------|--|
| Chipset | Foxconn T60H928.01 |
| Data throughput | 723 bps (full speed data rate) |
| Protocol | Bluetooth 1.1 (Upgradeable to Bluetooth 1.2 when SIG specification is ratified). |
| Interface | USB 1.1 |

Bluetooth Interface

| Item | Specification |
|----------------|---------------|
| Connector type | USB |

Wireless Module 802.11b/g

| Item | Specification |
|-----------------|---|
| Chipset | Intel® Wireless WiFi Link 4965AGN (dual-band quad-mode 802.11a/b/g/Draft-N) network connection, supporting Acer SignalUp™ with InviLink™ Nplify™ wireless technology Intel® PRO/Wireless 3945ABG (dual-band tri-mode 802.11a/b/g) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ wireless technology |
| Data throughput | 11~54 Mbps, up to 270 Mbps for Draft-N |
| Protocol | 802.11b+g, Draft-N |
| Interface | PCI bus (mini PCI socket for wireless module) |

Hard Disk Drive Interface

| Item | | | | |
|--|------------------------------------|--|-------------------------------------|------------------------------------|
| Vendor & Model Name | HGST 2.5" HTS541680J9SA00 SURUGA-B | SEAGATE 2.5" ST9120822AS (9S1133-190) Venus SATA | WD 2.5" WD1600BEVS-22RSTO ML80 SATA | HGST 2.5" HTS541616J9SA00 SURUGA-B |
| Capacity (MB) | 80000 | 120000 | 160000 | 160000 |
| Bytes per sector | 512 | 512 | 512 | 512 |
| Data heads | 2 | 3 | 3 | 4 |
| Drive Format | | | | |
| Disks | 1 | 2 | 2 | 2 |
| Spindle speed (RPM) | 5400 RPM | 5400 RPM | 5400 RPM | 5400 RPM |
| Performance Specifications | | | | |
| Buffer size | 8MB | 8MB | 8MB | 8MB |
| Interface | SATA | SATA | SATA | SATA |
| Max. media transfer rate (disk-buffer, Mbytes/s) | 540 | 540 | 540 | 540 |
| Data transfer rate (host~buffer, Mbytes/s) | 100 MB/Sec. Ultra DMA mode-5 | 150 MB/Sec. Ultra DMA mode-5 | 150 MB/Sec. Ultra DMA mode-5 | 150 MB/Sec. Ultra DMA mode-5 |
| DC Power Requirements | | | | |
| Voltage tolerance | 5V(DC) +/- 5% | 5V(DC) +/- 5% | 5V(DC) +/- 5% | 5V(DC) +/- 5% |

Combo Drive module

| Item | Specification | |
|---------------------------|--|----------------------------------|
| Vendor & model name | SONY COMBO 12.7mm Tray 24X CRX880A | |
| Performance Specification | With CD Diskette | With DVD Diskette |
| Transfer rate (KB/sec) | Sustained: Max 3.6Mbytes/sec | Sustained: Max 10.8Mbytes/sec |
| Buffer Memory | 2MB | |
| Interface | PATA | |
| Applicable disc format | <p>1. Reads and writes data in each CD-ROM, CD-ROMXA, CD-I FMV, Video CD and CD-EXTRA</p> <p>2. Reads data in Photo CD (Single and multi session)</p> <p>3. Reads and writes standard CD-DA</p> <p>4. Reads and writes CD-R discs conforming to "Orange Book Part 2"</p> <p>5. Reads and writes CD-RW discs conforming to "Orange Book Part 3"</p> <p>6. Reads data in DVD-ROM</p> <p>Applicable DVD formats (Read):</p> <p>DVD: DVD-ROM, (DVD-5, DVD-9, DVD-10, DVD-18),DVD-Video, DVD-R 3.95G, DVD-R 4.7G, DVD-RW, DVD+R, DVD+RW, Multi-Border DVD-R/DVD-RW, Multi-session DVD+R, DVD+RW and DVD-RAM (optional)</p> <p>Applicable CD Formats (Read):</p> <p>CD: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode Mode-2 Form-1 and Mode-2 Form-2, CD-i Ready, Video-CD (MPEG-1), Karaoke CD, Super Video CD, Photo-CD, Enhanced CD, CD Plus, CD Extra, i-trax CD, CD-Text, CD-R, CD-RW</p> <p>Applicable CD Formats (Write)</p> <p>CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, Video-CD CD-Text</p> | |
| 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) | |

Super-Multi Drive module

| Item | Specification | |
|---------------------------|---|-----------------------------------|
| Vendor & model name | HLDS Super-Multi Drive GSA-T20N, PHILIPS Super-Multi Drive DS-8A1P, PIONEER Super-Multi Drive DVR-K17RS | |
| Performance Specification | With CD Diskette | With DVD Diskette |
| Transfer rate (KB/sec) | Sustained: Max 3.6Mbytes/sec | Sustained: Max 10.08Mbytes/sec |
| Buffer Memory | 2MB | |
| Interface | PATA | |

Super-Multi Drive module

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

Audio Interface

| Item | Specification |
|-----------------------------|---|
| Audio Controller | Realtek ALC883 Azalia and Amplifier Maxim MAX9710 & MAX4411 |
| Audio onboard or optional | Built-in |
| Mono or Stereo | Stereo |
| Resolution | 18 bit stereo full duplex |
| Compatibility | HD audio Interface; S/PDIF output for PCM or AC-3 content |
| Sampling rate | 1Hz resolution VSR (Variable Sampling Rate) |
| Internal microphone | Yes |
| Internal speaker / Quantity | Yes/2 (1.5W speakers) |

Video Interface

| Item | Specification |
|---------------------------------|---------------------|
| Chipset | ATI M66/M74/M76 MXM |
| Package | Daughter Board |
| Interface | PCIE |
| Supports ZV (Zoomed Video) port | Yes |

Video Memory

| Item | Specification |
|-------------|---------------------|
| Chipset | ATI M66/M74/M76 MXM |
| Memory size | up to 256MB |
| Interface | GDDR2 |

| Item | Specification |
|------------------------------|---|
| Chipset | ICH8M |
| USB Compliancy Level | 2.0 |
| OHCI | USB 1.1 and USB 2.0 Host controller |
| Number of USB port | 4 |
| Location | One on the left side/three on the rear side |
| Serial port function control | Enable/Disable by BIOS Setup |

PCMCIA Port

| Item | Specification |
|---------------------------------|----------------|
| PCMCIA controller | ENE CB714/1410 |
| Supports card type | Type-II |
| Number of slots | One type-II |
| Access location | Left panel |
| Supports ZV (Zoomed Video) port | No ZV support |
| Supports 32 bit CardBus | Yes |

System Board Major Chips

| Item | Controller |
|----------------------------|---|
| Core logic | Mobile Intel® PM965/GM965 + ICH8M Express Chipset |
| VGA | ATI M66/M74/M76 MXM |
| LAN | Realtek 8100SBL/CL |
| USB 2.0 | Intel ICH8M |
| Super I/O controller | N/A |
| MODEM | ALC 883 |
| Bluetooth | Built-in ATI SB460 |
| Wireless 802.11 b+g | Built-in ATI SB460 |
| PCMCIA/ 5 in 1 Card Reader | ENE CB714/1410 |

System Board Major Chips

| Item | Controller |
|-------------|----------------|
| Audio Codec | Realtek ALC883 |

Keyboard

| Item | Specification |
|--|---|
| Keyboard controller | NS PC97541V |
| Total number of keypads | 105-/106-key |
| Windows logo key | Yes |
| Internal & external keyboard work simultaneously | Plug USB keyboard to the USB port directly: Yes |

Battery

| Item | Specification |
|------------------------|--|
| Vendor & model name | Panasonic (6cell) 2.0 Sanyo (6cell) 2.0 SMP (6cell) 2.0 Panasonic (8cell) 2.4 Sanyo (8cell) 2.4 SMP (8cell) 2.4 |
| Battery Type | Li-ion |
| Pack capacity | 4000 mAH Panasonic (6cell) 2.0 4000 mAH Sanyo (6cell) 2.0 4000 mAH SMP (6cell) 2.0 4800 mAH Panasonic (8cell) 2.4 4800 mAH Sanyo (8cell) 2.4 4800 mAH SMP (8cell) 2.4 |
| Number of battery cell | 6/8 |
| Package configuration | 3 cells in series, 2 series in parallel 4 cells in series, 2 series in parallel |
| Normal voltage | 11.1V |
| Charge voltage | 19.0 v |

LCD 17" inch

| Item | Specification | |
|-----------------------------|---|---|
| Vendor & model name | B170PW03 (Glare) LTN170X2-L02-1-1 (Glare) LP171WP4-TLB1 (Glare) | B170PW03 (Non-Glare) LTN170X2-L02-1 (Non-Glare) LP171WP4-TLA1 (Non-Glare) |
| Screen Diagonal (mm) | 17 inches | 17 inches |
| Active Area (mm) | 331.1 x 207.0 | 331.2x207 |
| Display resolution (pixels) | 1280 x 800 WXGA | 1280x800 WXGA |
| Pixel Pitch | 0.2588 x 0.2588 | 0.25875x0.25875 |
| Pixel Arrangement | R.G.B. Vertical Stripe | R.G.B. Vertical Stripe |
| Display Mode | Normally White | Normally White |

LCD 17" inch

| Item | Specification | |
|---|-----------------------------|---|
| Typical White Luminance (cd/m ²) also called Brightness | 200 | 200 |
| Luminance Uniformity | 1.25 max. | 1.4 |
| Contrast Ratio | 400 typical | 400 |
| Response Time (Optical Rise Time/Fall Time) msec | 4/12 | 16 |
| Nominal Input Voltage VDD | +3.3V | 3.3V |
| Typical Power Consumption (watt) | 6.0 max. (without inverter) | Total 5.6 Watt (Typ.) @ LCM circuit 1.4Watt (Typ.), Backlight 4.2 Watt (Typ.) |
| Weight | 525 g. typical | 560 g.(Typ.) 575 g.(Max) |
| Physical Size (mm) | 344.0 x 222.0 x 6.1 | 344.0 x 222.0 x 6.5 |
| Electrical Interface | 1 channel LVDS | 1 channel LVDS |
| Support Color | 262,144 | 262,144 |
| Viewing Angle (degree) Horizontal: Right/Left Vertical: Upper/Lower | 45/45 15/35 | 45/45 15/35 |
| Temperature Range(° C) Operating Storage (shipping) | 0 to +50 -20 to +60 | 0 to +50 -20 to +60 |

LCD Inverter

| Item | Specification |
|---------------------------------|---------------------------|
| Vendor & model name | Darfon/V189-301GP |
| Brightness conditions | N/A |
| Input voltage (V) | 9~21 |
| Input current (mA) | 2.56 (max) |
| Output voltage (V, rms) | 780V (2000V for kick off) |
| Output current (mA, rms) | 6.5 (max) |
| Output voltage frequency (k Hz) | 65K Hz (max) |

AC Adaptor

| Item | Specification |
|--------------------------|----------------------------------|
| Input rating | 90V AC to 264V AC, 47Hz to 63Hz |
| Maximum input AC current | 1.7A |
| Inrush current | 220A@115VAC 220A@230VAC |
| Efficiency | 82% min. @115VAC input full load |

System Power Management

| ACPI mode | Power Management |
|----------------|--|
| Mech. Off (G3) | All devices in the system are turned off completely. |

System Power Management

| ACPI mode | Power Management |
|---------------------|--|
| Soft Off (G2/S5) | OS initiated shutdown. All devices in the system are turned off completely. |
| Working (G0/S0) | Individual devices such as the CPU and hard disc may be power managed in this state. |
| Suspend to RAM (S3) | CPU set power down VGA Suspend PCMCIA Suspend Audio 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. |

System Utilities

BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

Press **F2** to enter setup. The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without entering BIOS Setup Utility, please set the parameter to "enabled".

Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

```

Phoenix TrustedCore(tm) Setup Utility
-----
Information  Main  Advanced  Security  Boot  Exit

CPU Type:           Intel (R) Core (TM)2 Duo CPU  T7300 @ 2.00GHz
CPU Speed:          2000 MHz
IDE0 Model Name:    XXXXXXXXXXXX-(XX)
IDE0 Serial Number: XXXXXXXXX
IDE1 Model Name:    None
IDE1 Serial Number: None
ATAPI Model Name:   XXXXXXXXXXXX-XXX XX-XXXX-(XX)
System BIOS Version: VX.XX
VGA BIOS Version:  XX-XXX XXXXXX.XXX.XXX.XXX.XXXXXX
KBC Version:        XX.XX
Serial Number:      XXXXXXXXXXXXXXXXXXXXXXXXXX
Asset Tag Number:   None
Product Name:       TravelMate/Extensa 5XXX
Manufacturer Name:  Acer
UUID:               XXXxXxXX-xXxX-XXxx-xXXx-xXXxXXxXxxXX

F1  Help  ↑↓  Select Item  -/+  Change Values  F9  Setup Defaults
Esc Exit  ←→  Select Menu  Enter  Select ► Sub-Menu  F10 Save and Exit

```

Navigating the BIOS Utility

There are six menu options: Information, Main, Advanced, Security, Boot, and Exit.

Follow these instructions:

- To choose a menu, use the left and right arrow keys.
- To choose an item, use the up and down arrow keys.
- To change the value of a parameter, press **F5** or **F6**.
- A plus sign (+) indicates the item has sub-items. Press **Enter** to expand this item.
- Press **Esc** while you are in any of the menu options to go to the Exit menu.
- In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the BIOS Setup Utility.

NOTE: You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values. **Please note that system information is subject to different models.**

Information

The Information screen displays a summary of your computer hardware information.

Phoenix TrustedCore(tm) Setup Utility

Information
Main
Advanced
Security
Boot
Exit

```

CPU Type:                Intel (R) Core (TM)2 Duo CPU  T7300 @ 2.00GHz
CPU Speed:               2000 MHz
IDE0 Model Name:        XXXXXXXXXXXX-(XX)
IDE0 Serial Number:     XXXXXXXXX
IDE1 Model Name:        None
IDE1 Serial Number:     None
ATAPI Model Name:       XXXXXXXXXXXX-XXX XX-XXXX-(XX)
System BIOS Version:    VX.XX
VGA BIOS Version:       XX-XXX XXXXXX.XXX.XXX.XXX.XXXXXX
KBC Version:            XX.XX
Serial Number:          XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Asset Tag Number:       None
Product Name:           TravelMate/Extensa 5XXX
Manufacturer Name:      Acer
UUID:                   XXXxXxXX-xXxX-XXxx-xXXx-xXXxXXxXxxXX
                    
```

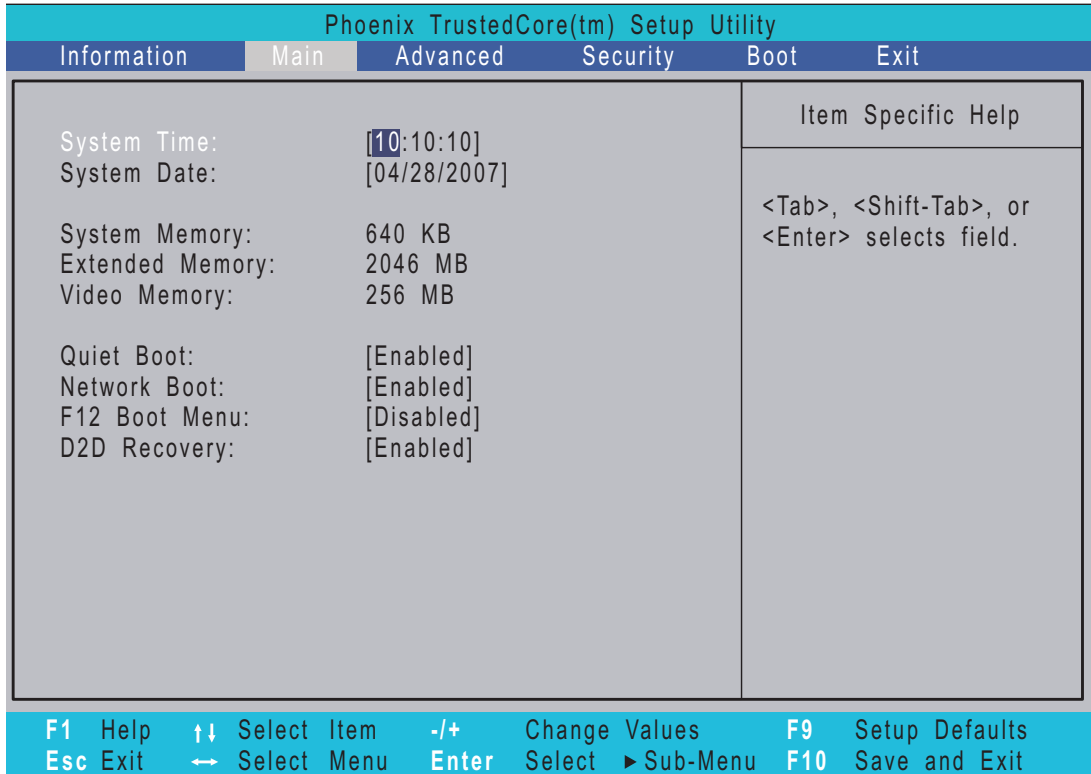
F1 Help
↑↓ Select Item
-/+ Change Values
F9 Setup Defaults
Esc Exit
← Select Menu
Enter Select
▶ Sub-Menu
F10 Save and Exit

NOTE: The system information is subject to different models.

| Parameter | Description |
|---------------------|--|
| CPU Type | This field shows the CPU type and speed of the system. |
| CPU Speed | This field shows the speed of the CPU. |
| IDE0 Model Name | This field shows the model name of HDD installed on primary IDE master. |
| IDE0 Serial Number | This field displays the serial number of HDD installed on primary IDE master. |
| IDE1 Model Name | This field displays the model name of devices installed on secondary IDE master. The hard disk drive or optical drive model name is automatically detected by the system. |
| IDE1 Serial Number | This field shows the serial number of devices installed on secondary IDE master. |
| ATAPI Model Name | This field shows the model name of the Optical device installed in the system. |
| System BIOS Version | Displays system BIOS version. |
| VGA BIOS Version | This field displays the VGA firmware version of the system. |
| KBC Ver | This field shows the keyboard |
| Serial Number | This field displays the serial number of this unit. |
| Asset Tag Number | This field displays the asset tag number of the system. |
| Product Name | This field shows product name of the system. |
| Manufacturer Name | This field displays the manufacturer of this system. |
| UUID Number | Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE). |

Main

The Main screen allows the user to set the system time and date as well as enable and disable boot option and recovery.



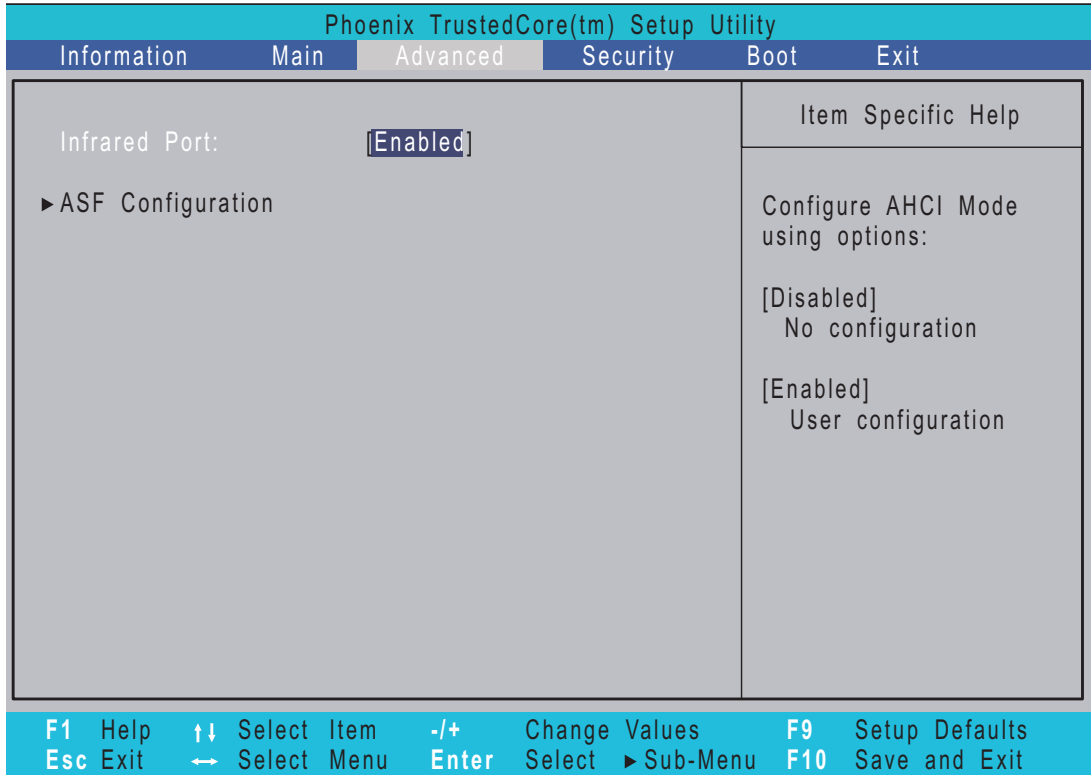
NOTE: The screen above is for your reference only. Actual values may differ.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Format/Option |
|------------------|--|---|
| System Time | Sets the system time. The hours are displayed with 24-hour format. | Format: HH:MM:SS (hour:minute:second) System Time |
| System Date | Sets the system date. | Format MM/DD/YYYY (month/day/year) System Date |
| System Memory | This field reports the memory size of the system. Memory size is fixed to 640MB | |
| Extended Memory | This field reports the memory size of the extended memory in the system. Extended Memory size=Total memory size-1MB | |
| VGA Memory | Shows the VGA memory size. VGA Memory size=128/256 MB | |
| Quiet Boot | Determines if Customer Logo will be displayed or not; shows Summary Screen is disabled or enabled. Enabled: Customer Logo is displayed, and Summary Screen is disabled. Disabled: Customer Logo is not displayed, and Summary Screen is enabled. | Option: Enabled or Disabled |
| Power on Display | Set the display output device on boot up. | Option: Auto or Both |
| Network Boot | Enables, disables the system boot from LAN (remote server). | Option: Enabled or Disabled |
| F12 Boot Menu | Enables, disables Boot Menu during POST. | Option: Disabled or Enabled |
| D2D Recovery | Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults. | Option: Enabled or Disabled |

NOTE: The sub-items under each device will not be shown if the device control is set to disable or auto. This is because the user is not allowed to control the settings in these cases.

Advanced

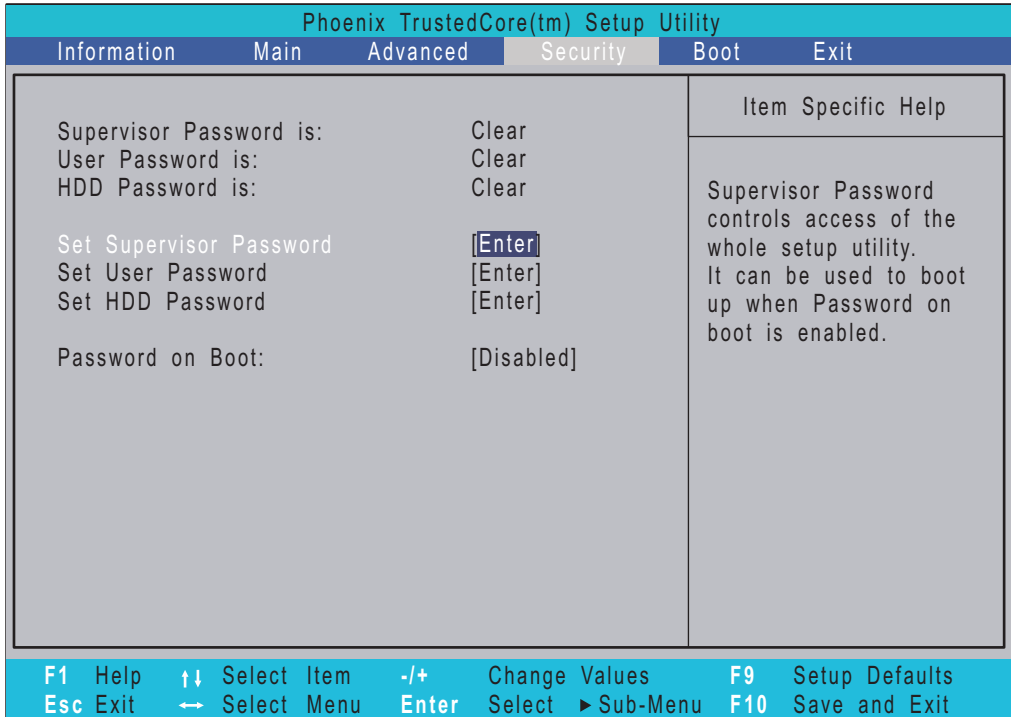


The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Format/Option |
|-------------------|---|------------------------------------|
| Infrared Port | Enable or Disable the infrared port | Option: Enabled or Disabled |
| ASF Configuration | Configure Alert Standard Format (ASF) parameters. A standard for how alerting and remote-control capabilities on network controllers work Options: Minimum WatchDog Timeout: [] BIOS Boot Timeout: [] OS Boot Timeout: [] Power-on wait time: [] | |

Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.



NOTE: Please refer to "Remove HDD/BIOS Password" section if you need to know how to remove HDD/BIOS Password.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Option |
|-------------------------|--|----------------------------|
| Supervisor Password is | Shows the setting of the Supervisor password | Clear or Set |
| User Password is | Shows the setting of the user password. | Clear or Set |
| HDD Password is | Shows the setting of the hard disk drive password | Clear or Set |
| Set Supervisor Password | Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters. | |
| Set User Password | Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters. | |
| Set HDD Password | Press Enter to set the HDD password. | |
| Password on Boot | Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup. | Disabled or Enabled |

NOTE: When you are prompted to enter a password, you have three tries before the system halts. Don't forget your password. If you forget your password, you may have to return your notebook computer to your dealer to reset it.

Setting a Password

Follow these steps as you set the user or the supervisor password:

- Use the **w** and **y** keys to highlight the Set Supervisor Password parameter and press the **e** key. The Set Supervisor Password box appears:

```

Set Supervisor Password

Enter New Password      [          ]
Confirm New Password    [          ]
  
```

- Type a password in the "Enter New Password" field. The password length can not exceeds 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the "Confirm New Password" field.

IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

- Press **e**.
After setting the password, the computer sets the User Password parameter to "Set".
- If desired, you can opt to enable the Password on boot parameter.
- When you are done, press **u** to save the changes and exit the BIOS Setup Utility.

Removing a Password

Follow these steps:

1. Use the `w` and `y` keys to highlight the Set Supervisor Password parameter and press the `e` key. The Set Password box appears:

| | | |
|-------------------------|---|---|
| Set Supervisor Password | | |
| Enter current password | [|] |
| Enter New Password | [|] |
| Confirm New Password | [|] |

2. Type the current password in the Enter Current Password field and press `e`.
3. Press `e` twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to "Clear".
4. When you have changed the settings, press `u` to save the changes and exit the BIOS Setup Utility.

Changing a Password

1. Use the `w` and `y` keys to highlight the Set Supervisor Password parameter and press the `e` key. The Set Password box appears:

| | | |
|-------------------------|---|---|
| Set Supervisor Password | | |
| Enter current password | [|] |
| Enter New Password | [|] |
| Confirm New Password | [|] |

2. Type the current password in the Enter Current Password field and press `e`.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press `e`. After setting the password, the computer sets the User Password parameter to "Set".
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press `u` to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.

| |
|--------------------------|
| Setup Notice |
| Changes have been saved. |
| [continue] |

The password setting is complete after the user presses `u`.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.

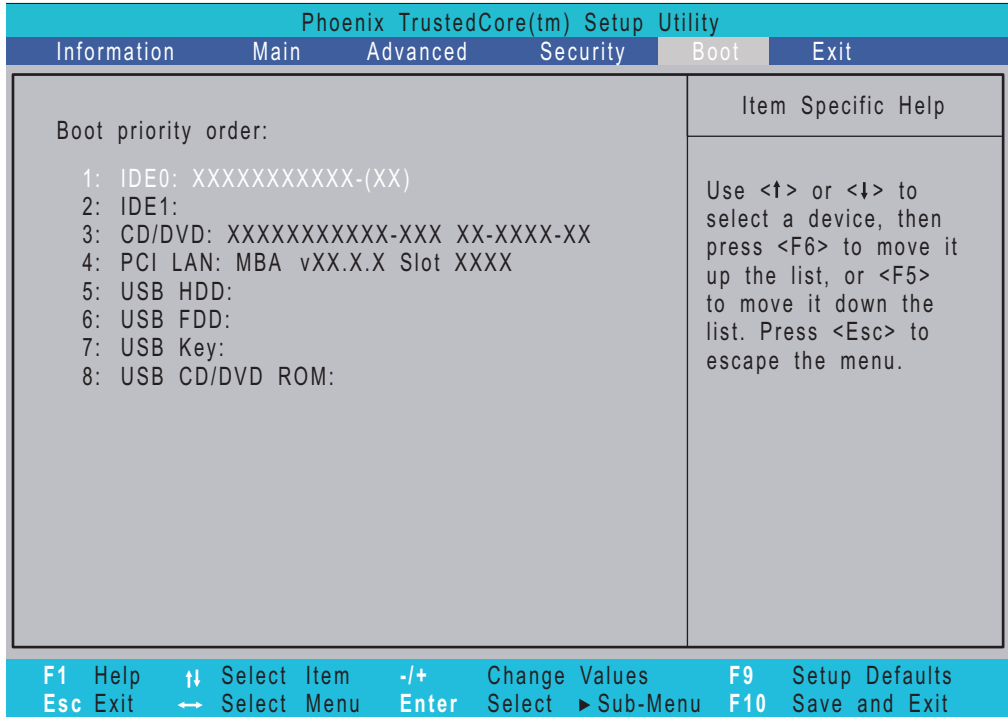
Setup Warning
Invalid password
Re-enter Password
[continue]

If the new password and confirm new password strings do not match, the screen will display the following message.

Setup Warning
Password do not match
Re-enter Password

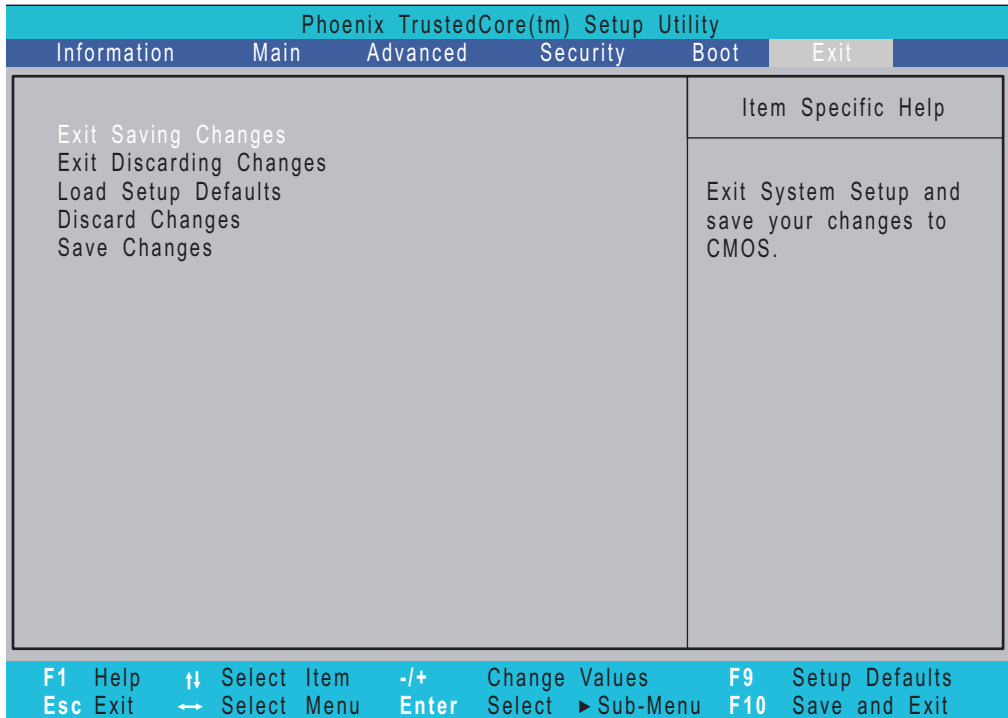
Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the diskette drive in module bay, the onboard hard disk drive and the CD-ROM in module bay.



Exit

The Exit screen contains parameters that help safeguard and protect your computer from unauthorized use.



The table below describes the parameters in this screen.

| Parameter | Description |
|-------------------------|---|
| Exit Saving Changes | Exit System Setup and save your changes to CMOS. |
| Exit Discarding Changes | Exit utility without saving setup data to CMOS. |
| Load Setup Default | Load default values for all SETUP item. |
| Discard Changes | Load previous values from CMOS for all SETUP items. |
| Save Changes | Save Setup Data to CMOS. |

BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

Use the Phlash utility to update the system BIOS flash ROM.

NOTE: If you do not have a crisis recovery diskette at hand, then you should create a **Crisis Recovery Diskette** before you use the Phlash utility.

NOTE: Do not install memory-related drivers (XMS, EMS, DPMS) when you use the Phlash.

NOTE: Please use the AC adaptor power supply when you run the Phlash utility. If the battery pack does not contain enough power to finish BIOS flash, you may not boot the system because the BIOS is not completely loaded.

Follow the steps below to run the Phlash.

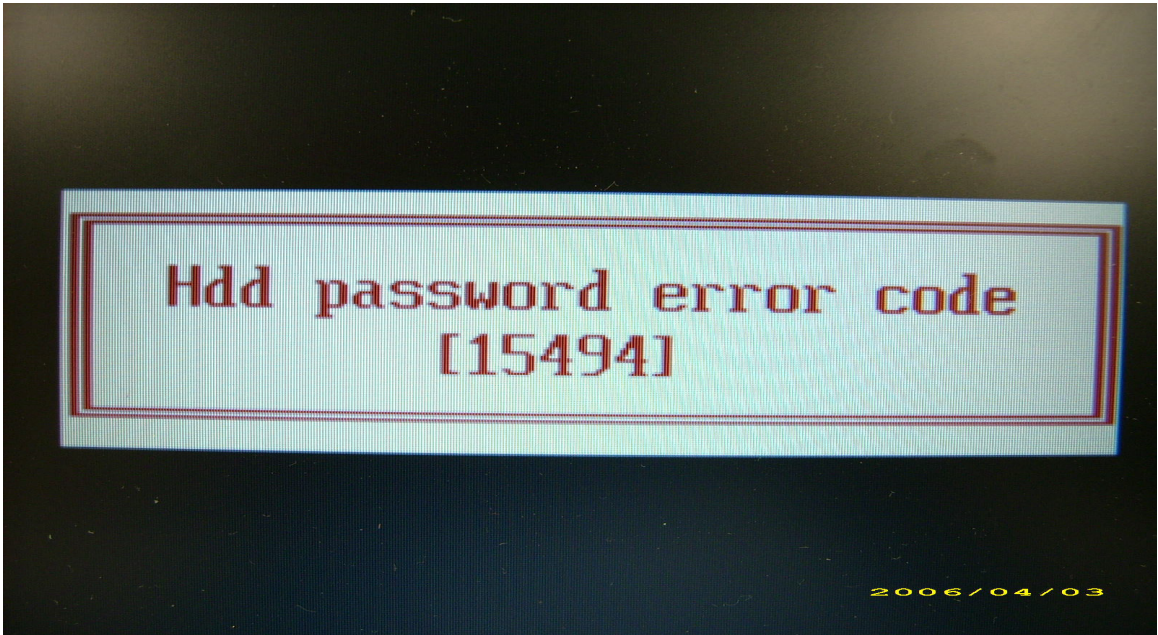
1. Prepare a bootable diskette.
2. Copy the flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

Remove HDD/BIOS Utility

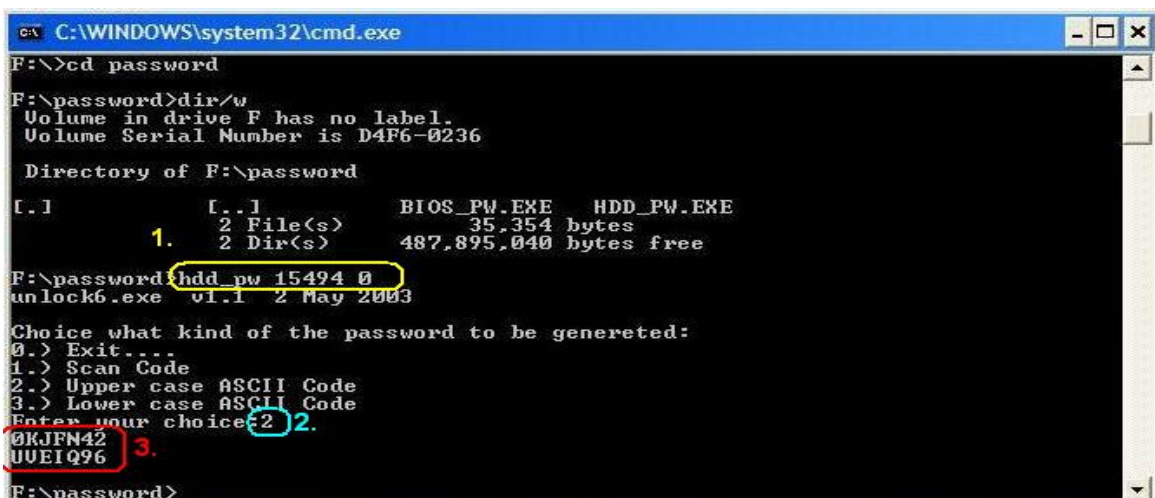
This section provide you with removing HDD/BIOS method:

Remove HDD Password:

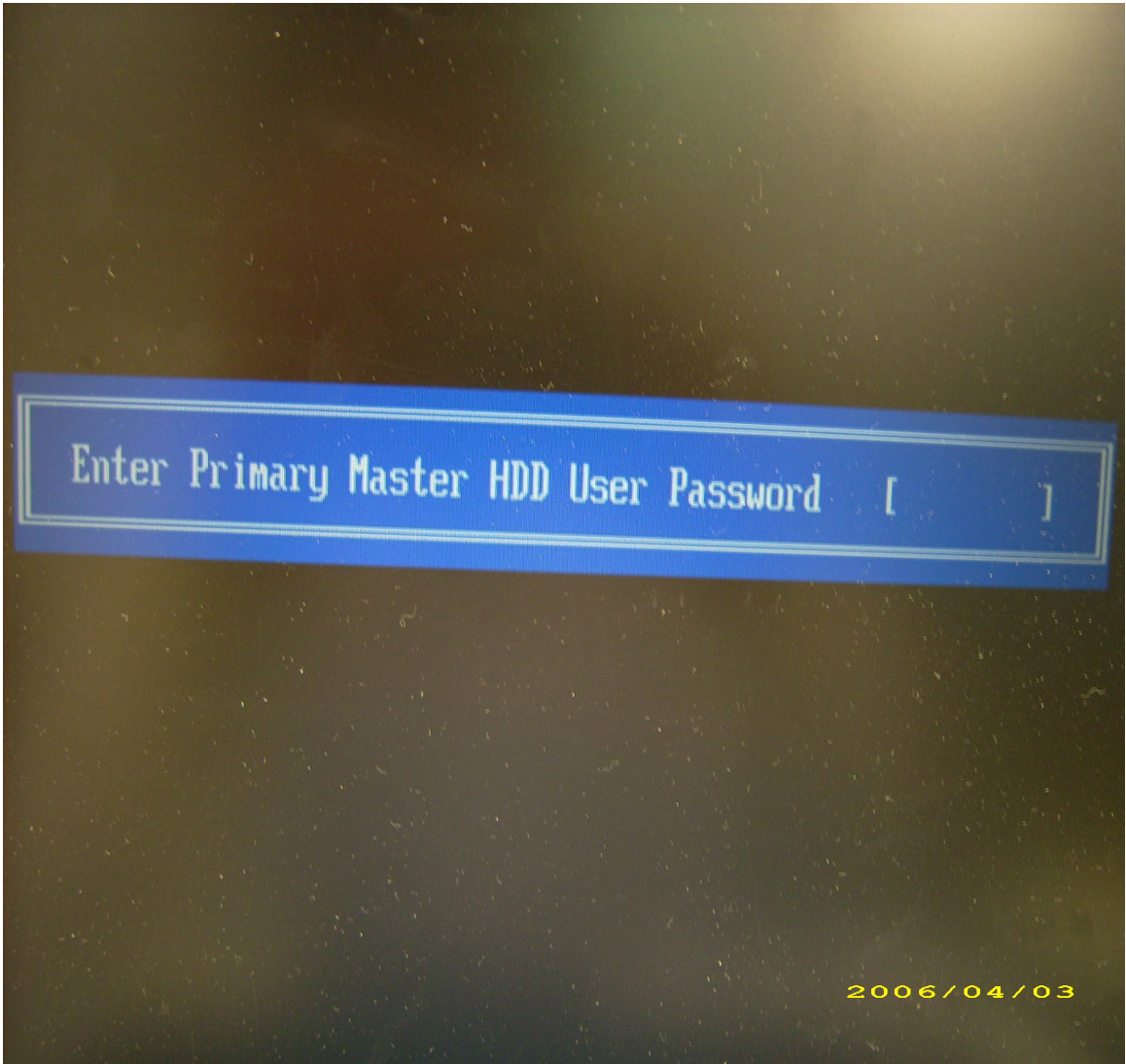
- ❑ If you key in wrong HDD password for three time, “HDD password error code” would display on the screen. See the image below.



- ❑ If you need to solve HDD password locked problem, you can run HDD_PW.EXE
 1. Key in “hdd_pw 15494 0”
 2. Select “2”
 3. Choose one upper-case string

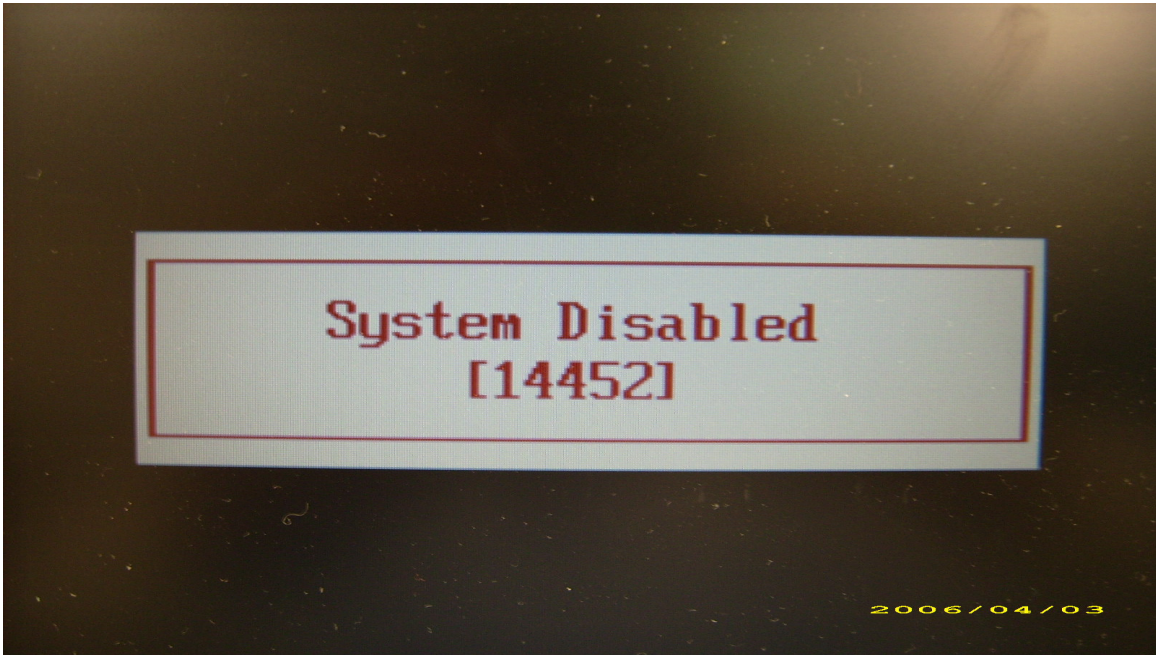


- ❑ Reboot system and key in “0KJFN42” or “UVEIQ96” to HDD user password.



Remove BIOS Password:

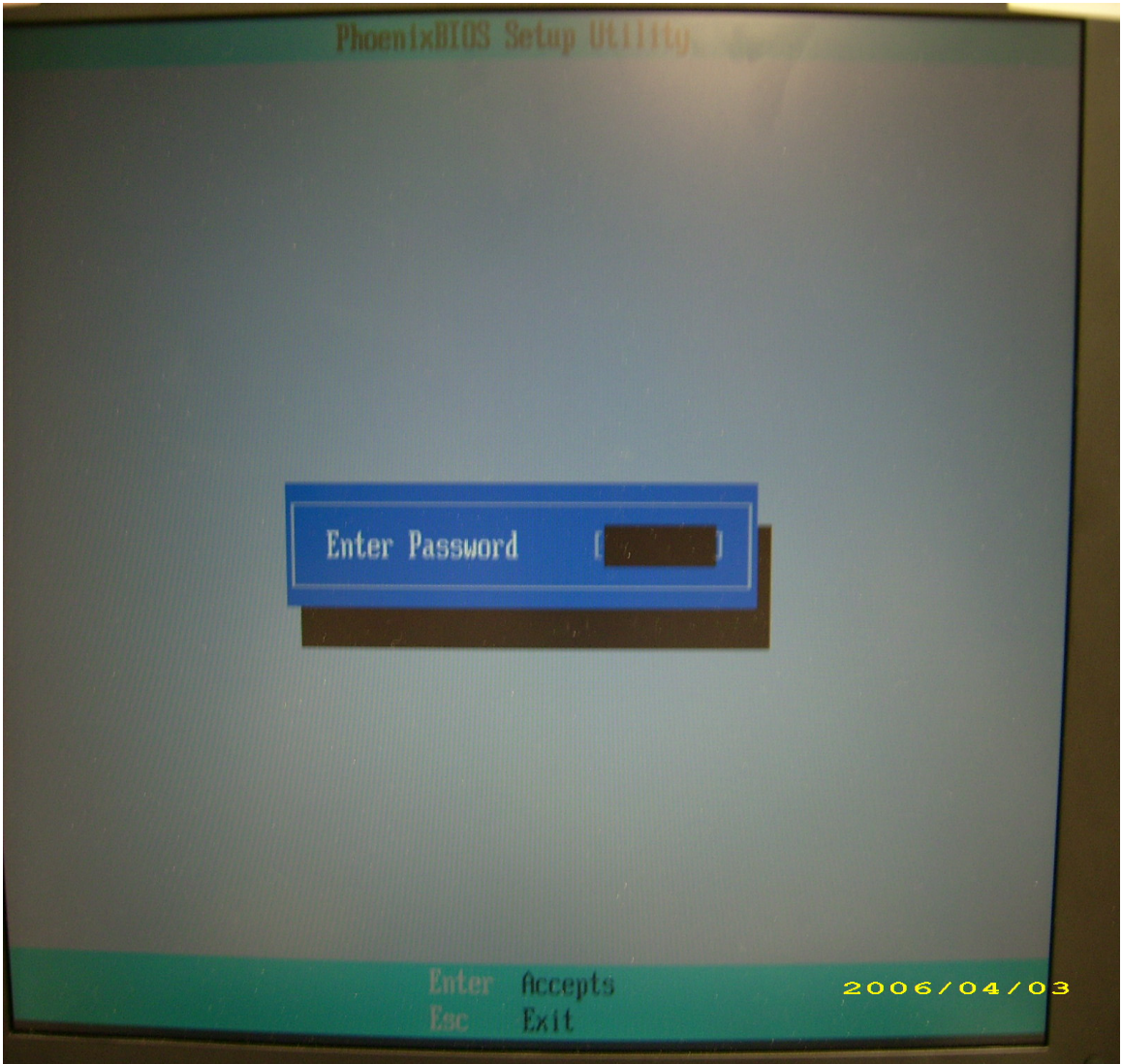
- If you key in wrong Supervisor Password for three time, "System Disabled" would display on the screen. See the image below.



- If you need to solve BIOS password locked problem, you can run BIOS_PW.EXE
 1. Key in "bios_pw 14452 0"
 2. Choose one upper-case string

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\M54>d:
D:\>bios_pw 14452 0
unlock6.exe v1.0 1 July 1997
qjjg9vy
07yqmjd
cjl14tm
6mbzajj
D:\>_
```

- Reboot the system and key in "qjjg9vy" or "07yqmjd" to BIOS user password.



Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Hex screwdriver
- Plastic flat screwdriver
- Plastic tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

General Information

Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.



3. Place the system on a flat, stable surface.
4. Remove the battery pack.

Disassembly Process

The disassembly process is divided into the following stages:

- External module disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the main board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

Main Screw List

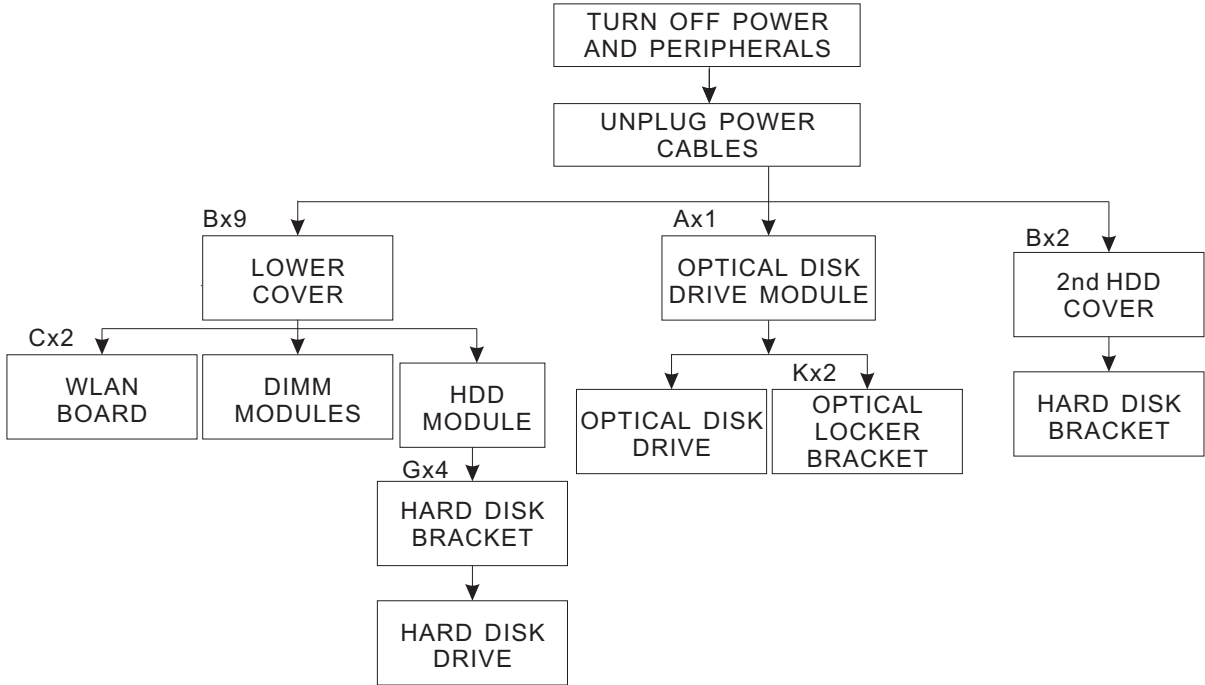
| Item | Screw | Color | Part No. |
|------|-----------|--------|--------------|
| A | M2.5 x L6 | Black | 86.00E33.736 |
| B | M2 x L4 | Black | 86.00A02.140 |
| C | M2 x L4 | Silver | 86.9A552.4R0 |
| D | M2.5 x L5 | Silver | 86.00E74.335 |
| E | M2.5 x L5 | Black | 86.00F19.735 |
| F | M2 x L3 | Silver | 86.00C07.220 |
| G | M3 x L4 | Silver | 86.9A544.4R0 |
| H | M2.5 x L8 | Black | 86.00E34.738 |
| I | M2 x L6 | Silver | 86.9A552.6R0 |
| J | M2 x L4 | Black | 86.00F24.724 |
| K | M2 x L3 | Black | 86.00E94.723 |

External Module Disassembly Process

External Modules Disassembly Flowchart

The flowchart below gives you a graphic representation on the entire disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the main board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

EXTERNAL MODULE DISASSEMBLY



Screw List

| | Screw | Part No. |
|---|-----------|--------------|
| A | M2.5 x L6 | 86.00E33.736 |
| B | M2 x L4 | 86.00A02.140 |
| C | M2 x L4 | 86.9A552.4R0 |
| G | M3 x L4 | 86.9A544.4R0 |
| K | M3 x L3 | 86.00E94.723 |

Removing the Battery Pack

1. Turn base unit over.
2. Slide the battery lock/unlock latch to the unlock position.

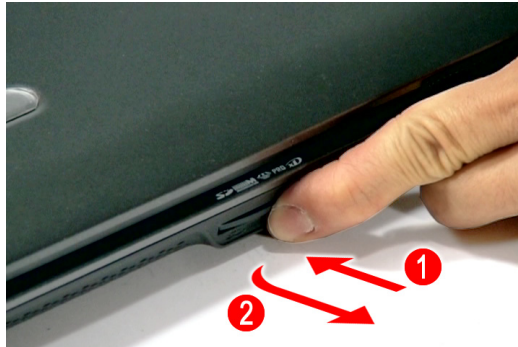


3. Slide and hold the battery release latch to the release position, then remove the battery from the main unit.



Removing the SD dummy card

1. Push the SD dummy card all the way in to eject it (1, 2).



2. Pull it out from the slot (2).



Removing the PC and ExpressCard dummy cards

1. Press the eject button to pop out the button.



2. Press it again (1) to pop out the PC dummy card (2). Remove the PC dummy card from the slot.



3. Push the ExpressCard dummy card all the way in to eject it.



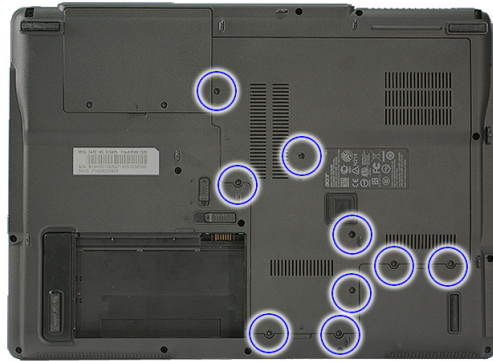
4. Pull it out from the slot.



Removing the Lower Cover

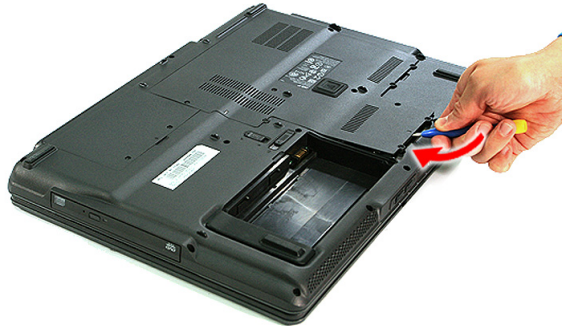
1. See "Removing the Battery Pack" on page 62.

2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. Loosen the nine screws (B) on the lower cover.

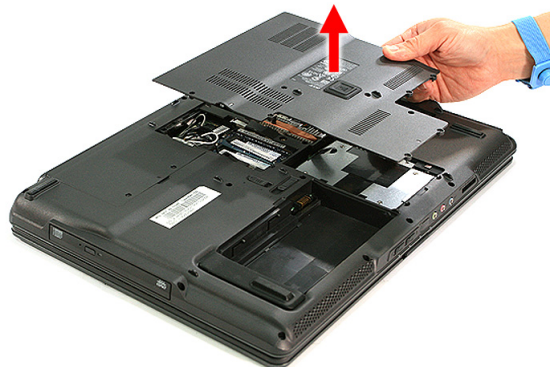


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~9 | M2 x L4 (9) | Black | 1.6 kgf-cm |

5. Use a plastic screw driver to carefully pry open the lower cover.



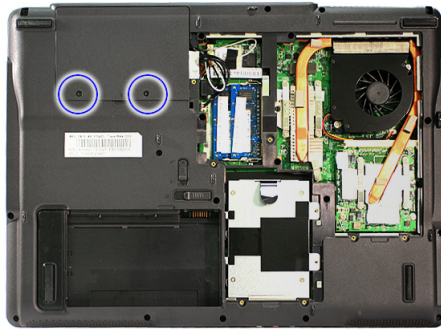
6. Remove the lower cover from the lower case.



Removing the Secondary HDD Cover

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.

- Loosen the two screws (B) from the secondary HDD cover.

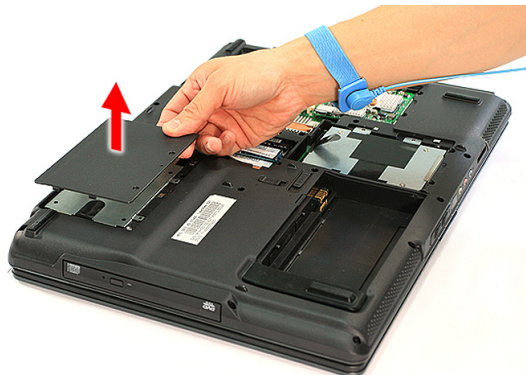


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~2 | M2 x L4 (2) | Black | 1.6 kgf-cm |

- Use a plastic screw driver to pry open the secondary HDD cover.



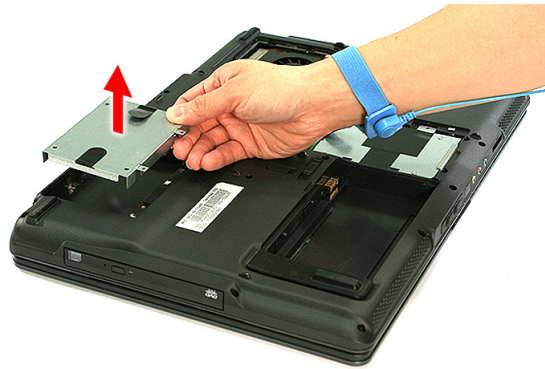
- Remove the secondary HDD cover from the lower case.



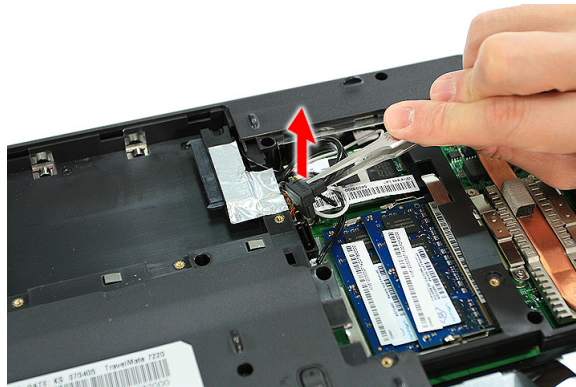
Removing the Secondary HDD Bracket and Connector

- See "Removing the Battery Pack" on page 62.
- See "Removing the Secondary HDD Cover" on page 65.

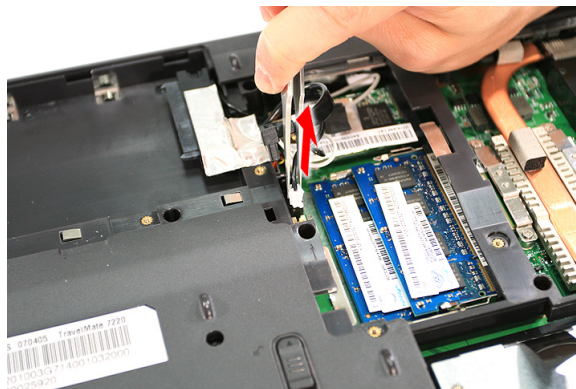
3. Remove the HDD Bracket from the slot.



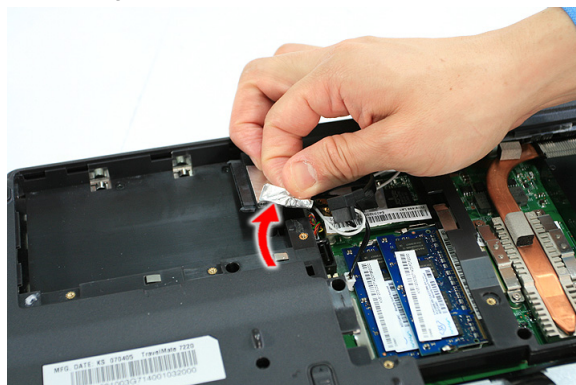
4. Disconnect the SATA power connector.



5. Disconnect the SATA connector.

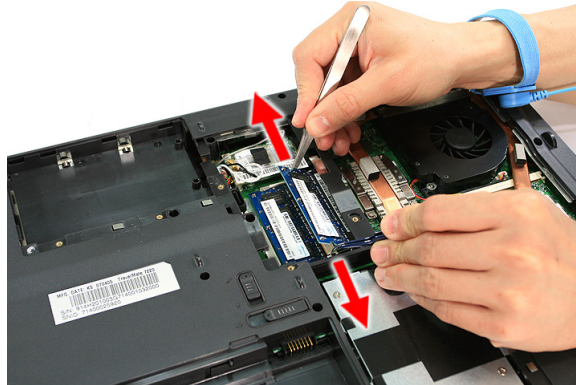


6. Remove the aluminium tape together with the connector.

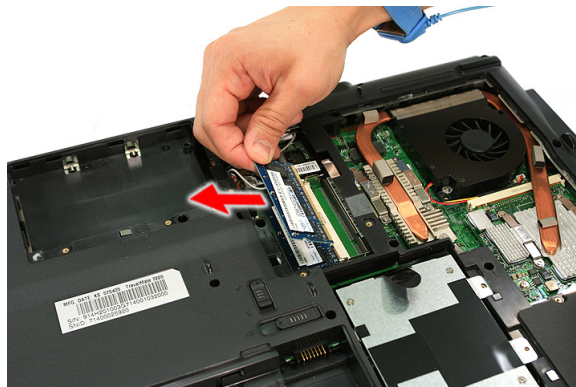


Removing the DIMM

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.
5. See “Removing the Secondary HDD Cover” on page 65.
6. Push out the latches on both sides of the DIMM socket to release the DIMM.

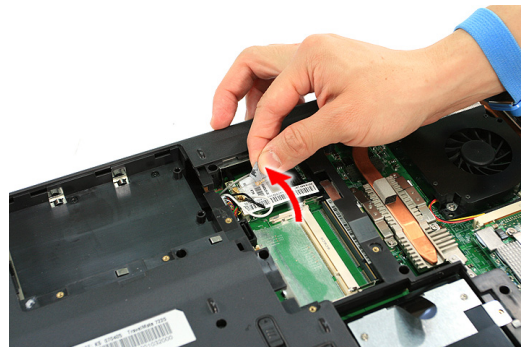


7. Remove the DIMM module.

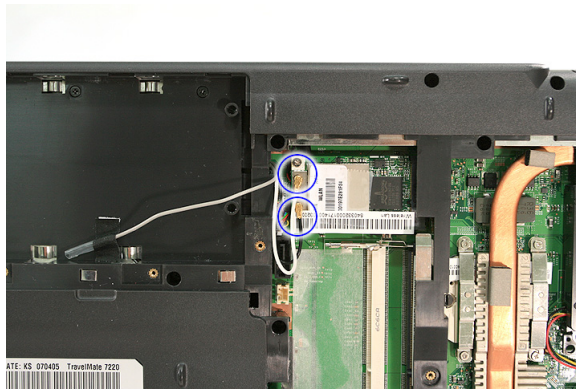


Removing the WLAN Board Modules

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.
5. Remove the tape holding the gray antenna.



- Disconnect the antenna cables from the WLAN board.

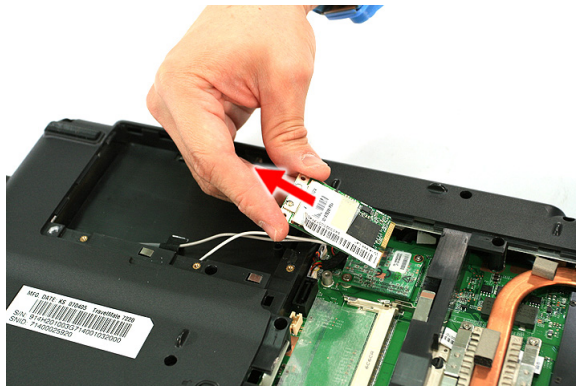


- Move the antenna away from the WLAN board and remove the two screws (C) on the WLAN board to release the WLAN board.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~2 | M2 x L4 (2) | Silver | 1.6 kgf-cm |

- Detach the WLAN board from the WLAN socket.

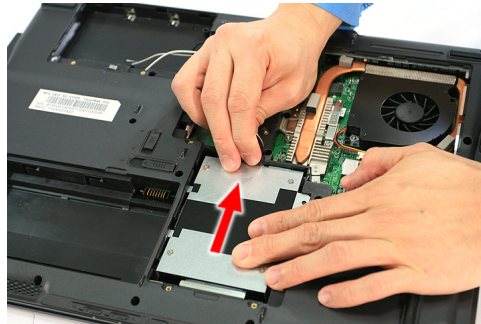


NOTE: When attaching the antenna back to the WLAN board, make sure the cable are arranged properly.

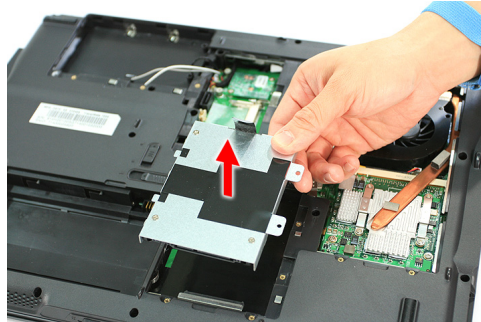
Removing the Hard Disk Drive Module

- See “Removing the Battery Pack” on page 62.
- See “Removing the SD dummy card” on page 63.
- See “Removing the PC and ExpressCard dummy cards” on page 63.
- See “Removing the Lower Cover” on page 64.

- Disconnect the hard disk module from the connector by pulling on the mylar tab on the hard disk module.

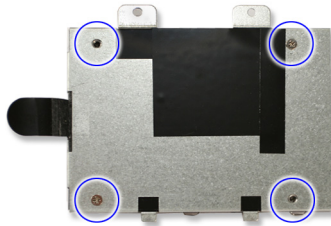


- Remove the hard disk module.



NOTE: To prevent damage to device, avoid pressing down on it or placing heavy objects on top of it.

- Remove the four screws (G) as shown.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~4 | M3 x L4 (4) | Silver | 1.8 kgf-cm |

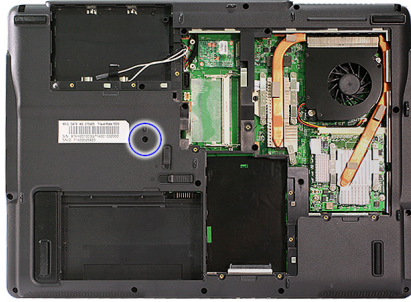
- Remove the hard disk drive from the bracket.



Removing the Optical Drive Module

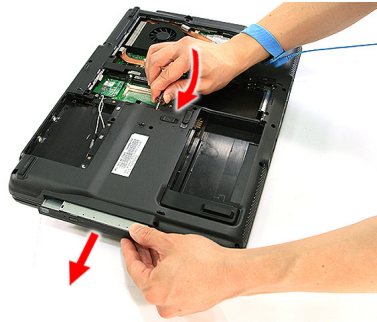
- See "Removing the Battery Pack" on page 62.

2. Turn the base unit over, then remove the one screw (A) on the bottom side of the unit.

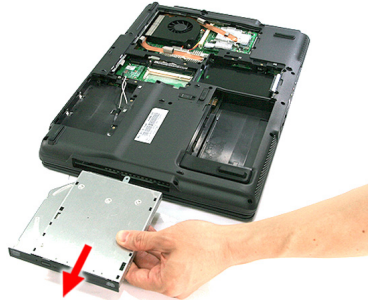


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1 | M2.5 x L6 (1) | Black | 3.0 kgf-cm |

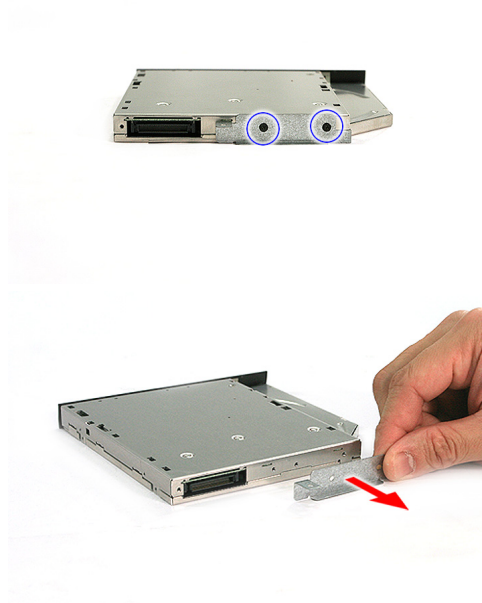
3. Carefully use a plastic screw driver to eject the optical drive tray.



4. Pull the optical drive module out from the main unit.



-
5. Remove the two screws (K) securing the locker bracket and remove the locker bracket from the optical disk drive module.

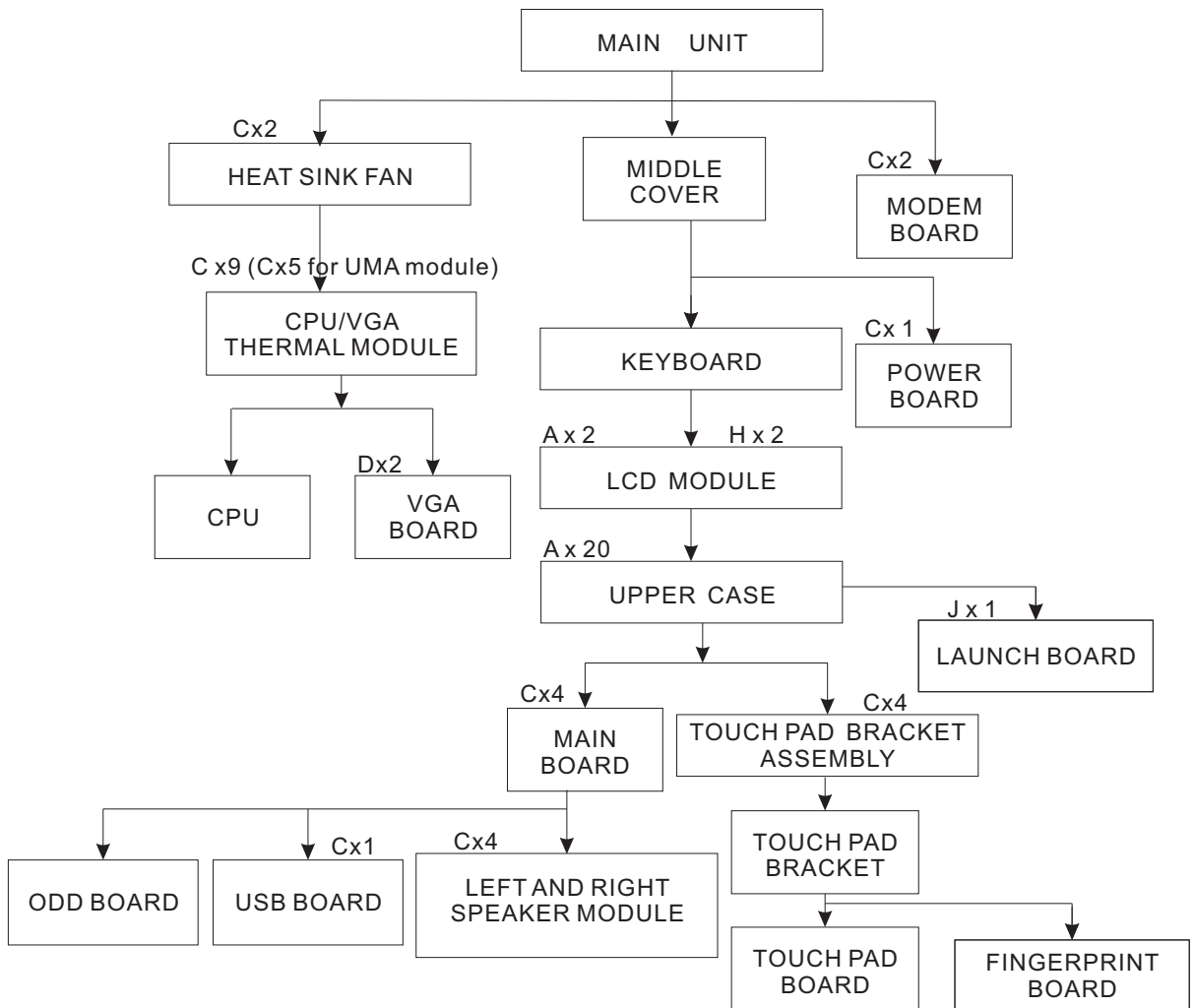


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~2 | M2 x L3 (2) | Black | 1.6 kgf-cm |

Main Unit Disassembly Process

Main Unit Disassembly Flowchart

MAIN UNIT DISASSEMBLY



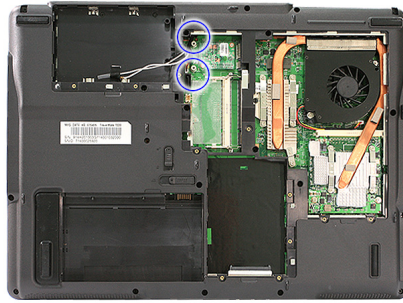
Screw List

| | Screw | Part No. |
|---|-----------|--------------|
| A | M2.5 x L6 | 86.00E33.736 |
| C | M2 x L4 | 86.9A552.4R0 |
| D | M2.5 x L5 | 86.00E74.335 |
| H | M2.5 x L8 | 86.00E34.738 |
| J | M2 x L4 | 86.00F24.724 |

Removing the Modem Board

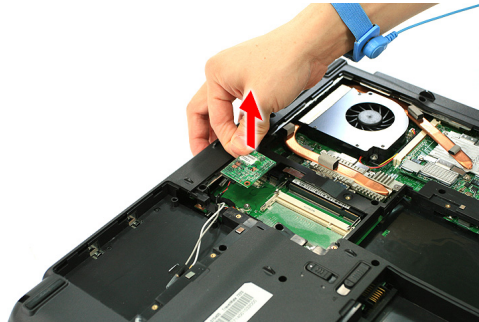
1. See “Removing the Battery Pack” on page 62.
2. See “Removing the Lower Cover” on page 64.

3. See “Removing the DIMM” on page 68.
4. See “Removing the WLAN Board Modules” on page 68.
5. Remove the 2 screws (C) securing the modem card.



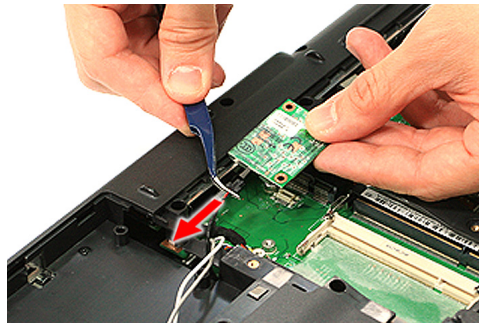
| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~2 | M2 x L4 (2) | Silver | 1.8 kgf-cm |

6. Lift partially to detach the modem board from the main board.



NOTE: The modem cable is still attached to the modem board.

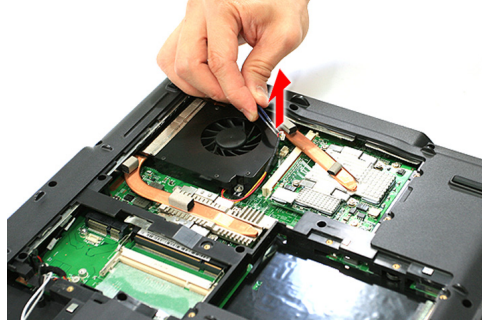
7. Disconnect the modem cable from the modem board.



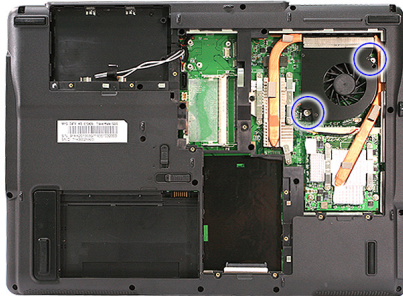
Removing the Heatsink Fan Module

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the Lower Cover” on page 64.

3. Disconnect the heatsink fan connector from FAN1 on the main board.

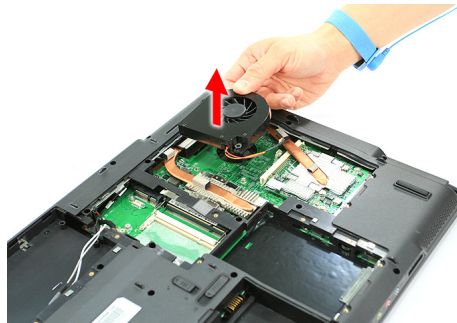


4. Remove the two screws (C) securing the heatsink fan module.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~2 | M2 x L4 (2) | Silver | 1.6 kgf-cm |

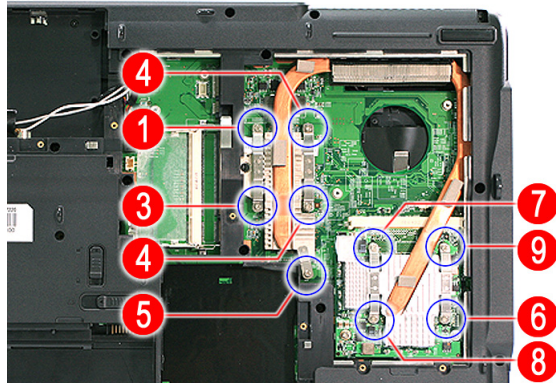
5. Remove the heatsink fan module from the main board.



Removing the CPU and VGA Heatsink Module

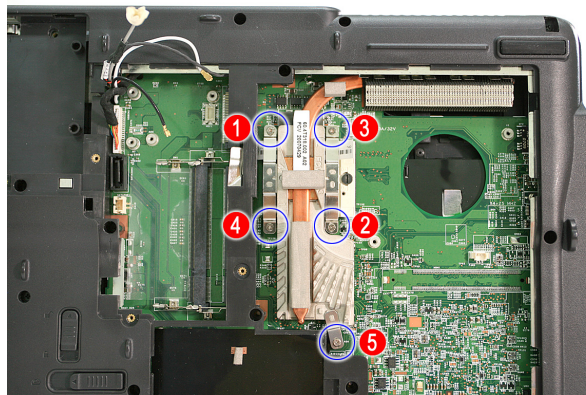
1. See "Removing the Battery Pack" on page 62.
2. See "Removing the Lower Cover" on page 64.

3. Remove the nine screws (C) securing the CPU and VGA heatsink module in place.

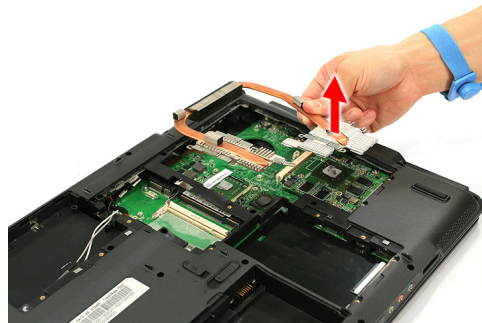
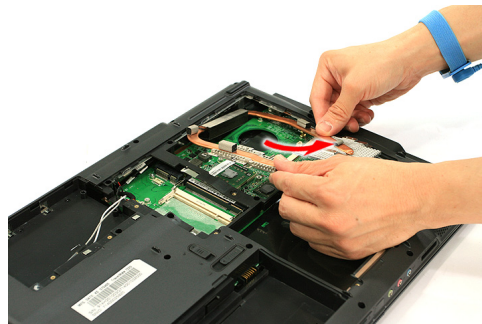


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~9 | M2 x L4 (9) | Silver | 3.0 kgf-cm |

a. For system without the discrete graphic card, there are only 5 screws holding the heatsink.

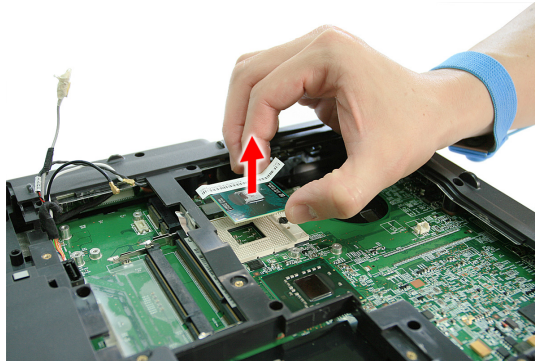
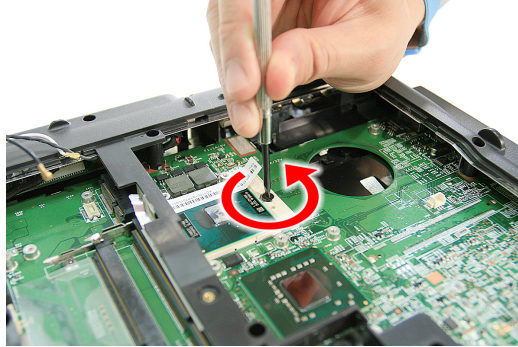


4. Slide out and remove the heatsink module.

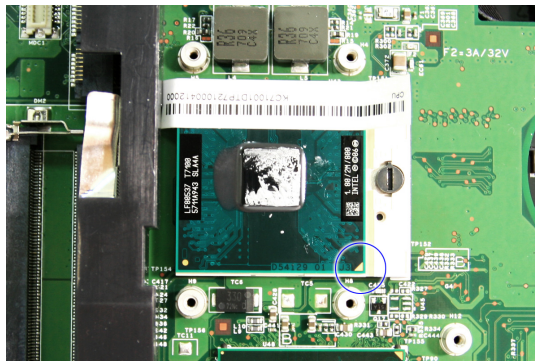


Removing the CPU

1. See “Removing the Battery Pack” on page 62..
2. See “Removing the Lower Cover” on page 64..
3. See “Removing the Heatsink Fan Module” on page 74.
4. See “Removing the CPU and VGA Heatsink Module” on page 75.
5. Using a flat screwdriver, turn the CPU socket latch counter-clockwise to release the CPU, then remove the CPU.



NOTE: When installing the CPU, make sure to install the CPU with PIN 1 at the corner as shown.



Removing the VGA board (for Discrete model only)

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the Lower Cover” on page 64.
3. See “Removing the Heatsink Fan Module” on page 74.
4. See “Removing the CPU and VGA Heatsink Module” on page 75.

- Remove the two screws (D) securing the VGA board.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~2 | M2.5 x L5 (2) | Silver | 1.6 kgf-cm |

- Carefully remove the VGA board from the main board.

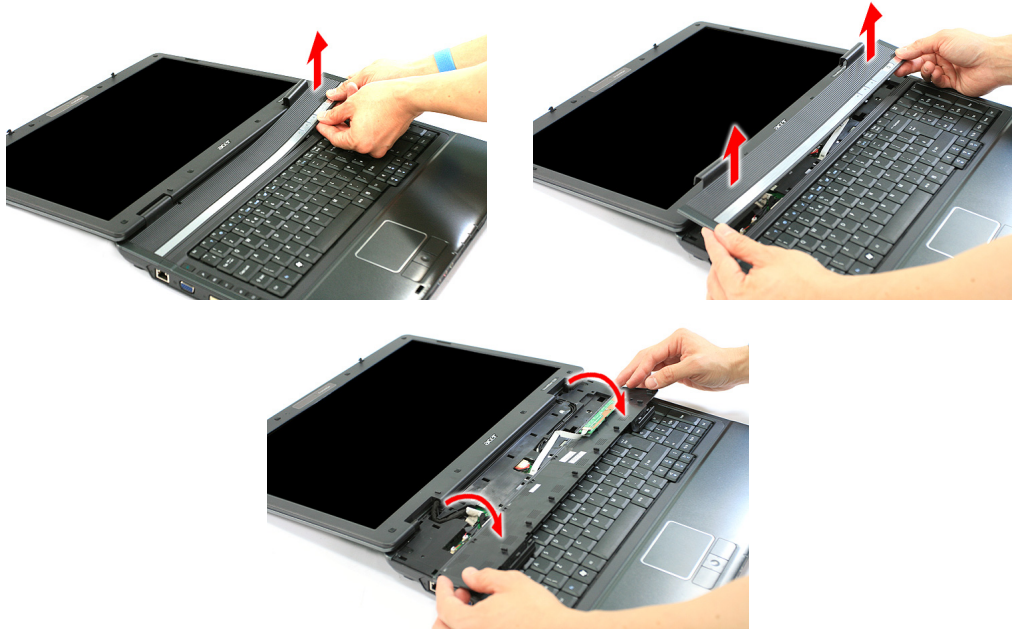


Removing the Middle Cover and the Power Board

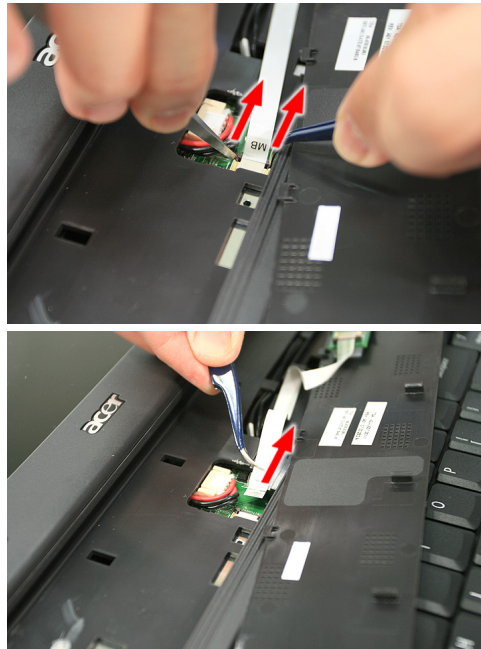
- See "Removing the Battery Pack" on page 62.
- Open the LCD screen all the way to facilitate the easy removal of the middle cover.
- To remove the Middle Cover, carefully insert the plastic flat screwdriver under the side of the middle cover and gently pry up the middle cover. Continue prying on the other side until you could detach the Middle Cover.



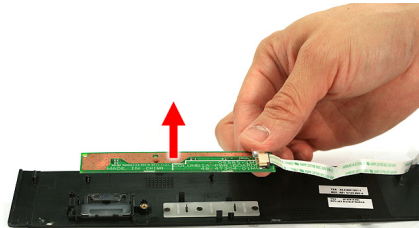
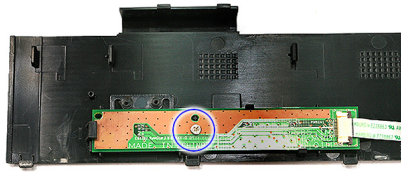
4. Detach the cover and turn it over on the keyboard.



5. Disconnect the Power board cable from the main board and disconnect the Power board cable.



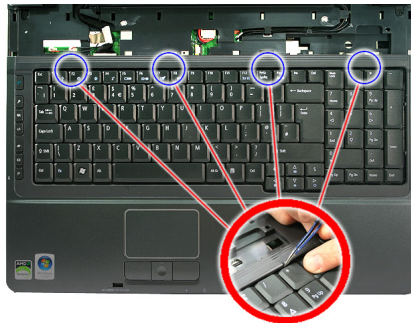
- Remove the one screw (C) securing the Power board to the middle cover, and remove the Power board from the middle cover.



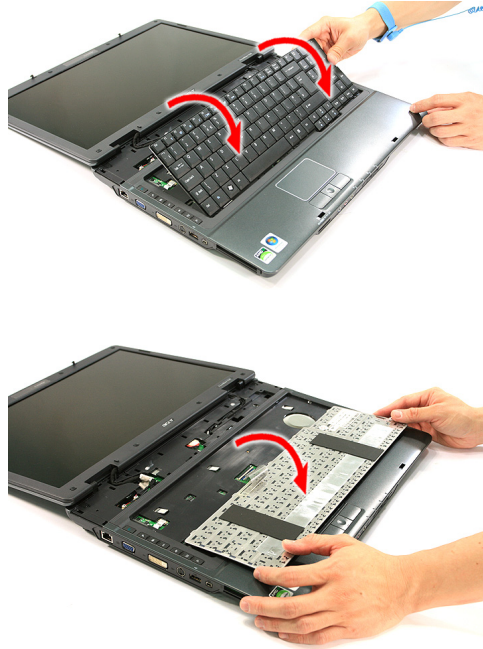
| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1 | M2 x L4 (1) | Silver | 1.6 kgf-cm |

Removing the Keyboard

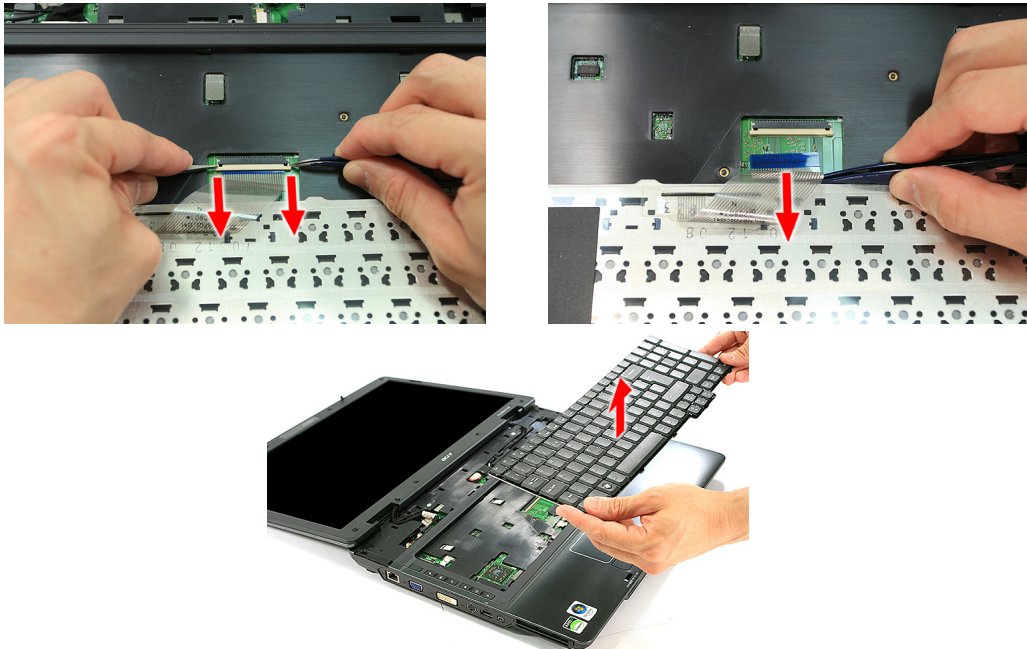
- See “Removing the Battery Pack” on page 62..
- See “Removing the Middle Cover and the Power Board” on page 78.
- Release the top latches securing the keyboard in place.



- Carefully pry the keyboard out of the side latches and slide it out; then turn it over on the touchpad area.



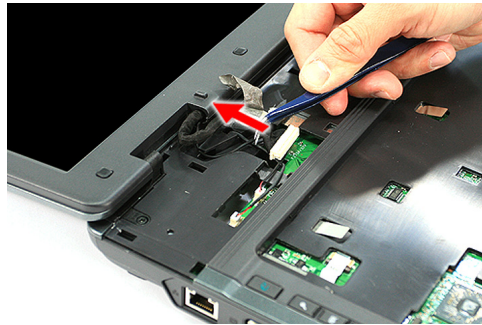
- Disconnect the keyboard cable from the main board to remove the keyboard.



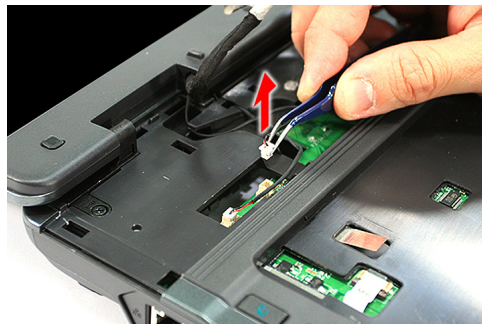
Removing the LCD Module

- See "Removing the Battery Pack" on page 62.
- See "Removing the Lower Cover" on page 64.
- See "Removing the WLAN Board Modules" on page 68.
- See "Removing the Middle Cover and the Power Board" on page 78.
- See "Removing the Keyboard" on page 80.

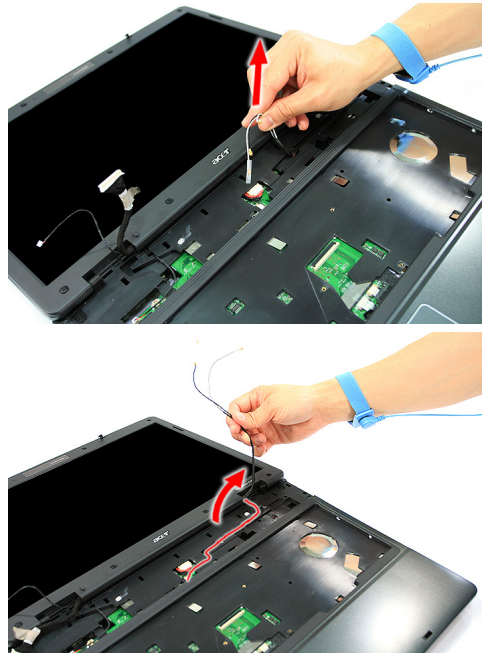
6. Remove the acetic tape and disconnect the LCD coaxial cable from the LCD1 connector on the main board.



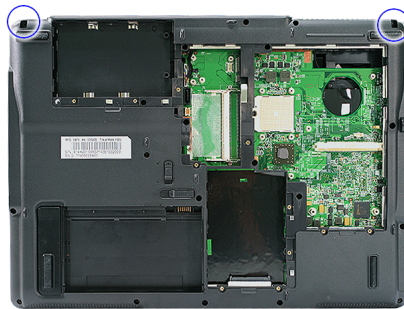
7. Remove the internal microphone cable from the INTMIC1 connector on the main board and release the cables from the latches.



8. Release the wireless LAN antenna cables from the hole and latches as shown.

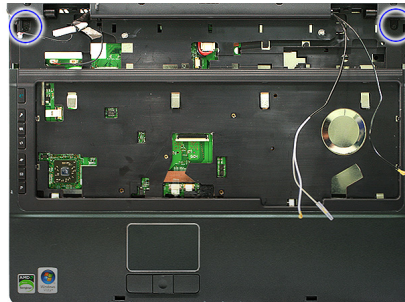


9. Remove the two screws (A) from the base of the unit.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~2 | M2.5 x L6 (2) | Black | 4.0 kgf-cm |

10. Remove the two screws (H) from the left and right hinge of the LCD module.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~2 | M2.5 x L8 (2) | Black | 4.0 kgf-cm |

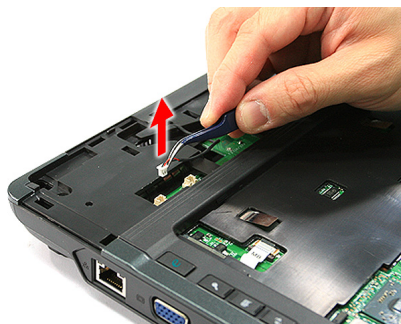
11. Carefully remove the LCD module from the base unit.



NOTE: When connecting the cable back to the unit, please note that the cable should be routed well.

Separating the Upper Case from the Lower Case

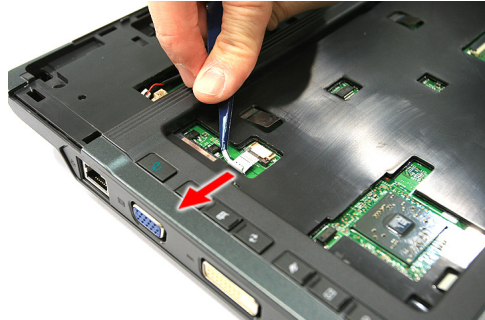
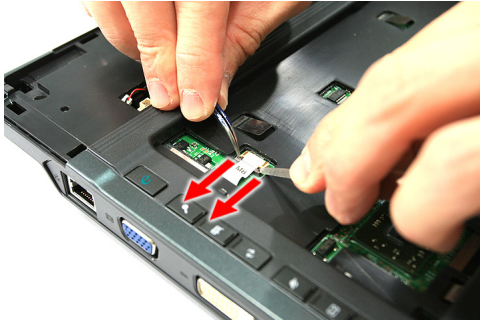
1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.
5. See “Removing the Secondary HDD Cover” on page 65.
6. See “Removing the Secondary HDD Bracket and Connector” on page 66.
7. See “Removing the DIMM” on page 68.
8. See “Removing the WLAN Board Modules” on page 68.
9. See “Removing the Hard Disk Drive Module” on page 69.
10. See “Removing the Optical Drive Module” on page 70.
11. See “Removing the Modem Board” on page 73.
12. See “Removing the Heatsink Fan Module” on page 74.
13. See “Removing the CPU and VGA Heatsink Module” on page 75.
14. See “Removing the CPU” on page 77.
15. See “Removing the VGA board (for Discrete model only)” on page 77.
16. See “Removing the Middle Cover and the Power Board” on page 78.
17. See “Removing the Keyboard” on page 80.
18. See “Removing the LCD Module” on page 81.
19. Disconnect the cover switch cable from LID1 on the main board.



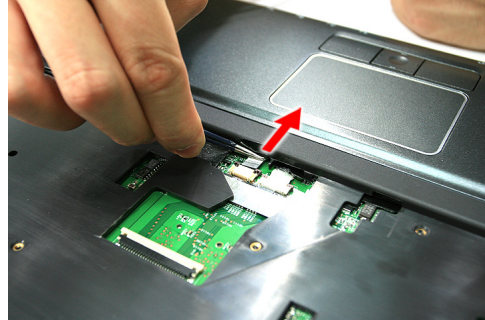
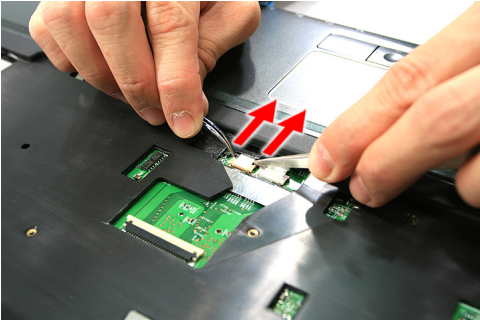
20. Disconnect the DC in cable from the main board.



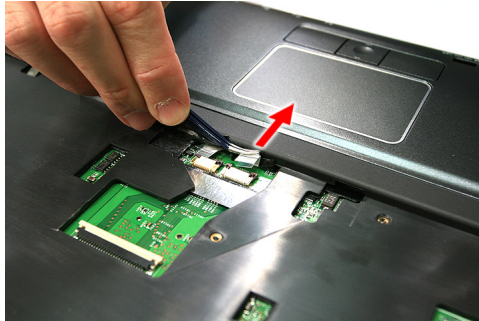
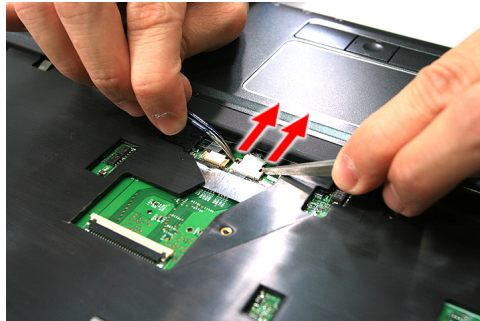
21. Disconnect the Launch board cable from the SWITCHCN1 from the main board.



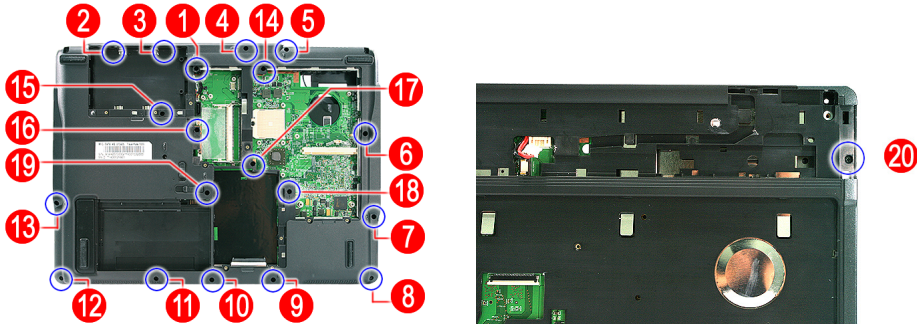
22. Disconnect the fingerprint cable (select model only) from the FPCN1 connector on the main board.



23. Disconnect the touchpad cable from the TOUCHPAD1 on the main board.

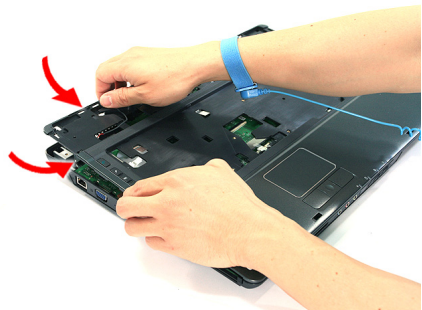


24. Remove the twenty screws (A) on the bottom and top panel.

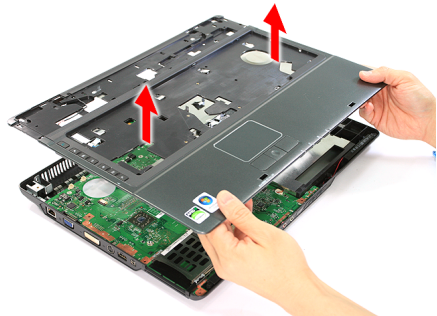


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~20 | M2.5 x L6 (20) | Black | 3.0 kgf-cm |

25. Gently pry the upper case from the main unit.



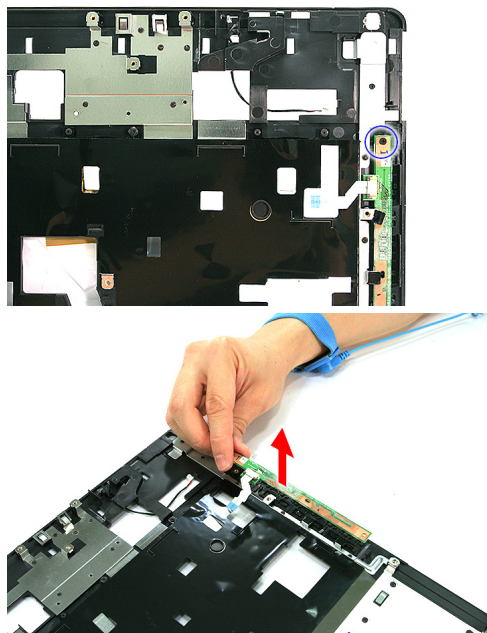
26. Remove the upper case from the main unit.



Removing the Launch Board

1. See "Removing the Battery Pack" on page 62.
2. See "Removing the SD dummy card" on page 63.
3. See "Removing the PC and ExpressCard dummy cards" on page 63.
4. See "Removing the Lower Cover" on page 64.
5. See "Removing the Secondary HDD Cover" on page 65.
6. See "Removing the Secondary HDD Bracket and Connector" on page 66.
7. See "Removing the DIMM" on page 68.
8. See "Removing the WLAN Board Modules" on page 68.
9. See "Removing the Hard Disk Drive Module" on page 69.
10. See "Removing the Optical Drive Module" on page 70.
11. See "Removing the Modem Board" on page 73.

12. See “Removing the Heatsink Fan Module” on page 74.
13. See “Removing the CPU and VGA Heatsink Module” on page 75.
14. See “Removing the CPU” on page 77.
15. See “Removing the VGA board (for Discrete model only)” on page 77.
16. See “Removing the Middle Cover and the Power Board” on page 78.
17. See “Removing the Keyboard” on page 80.
18. See “Removing the LCD Module” on page 81.
19. See “Separating the Upper Case from the Lower Case” on page 84.
20. Remove the one screw (J) holding the launch board and remove the launch board from the upper cover.

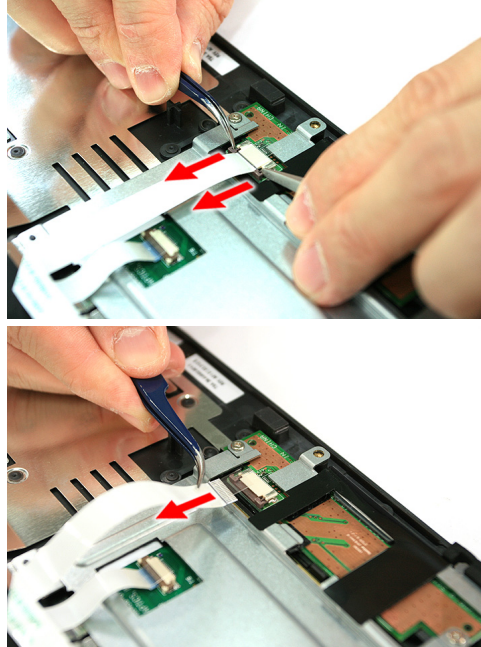


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1 | M2 x L4 (1) | Black | 1.6 kgf-cm |

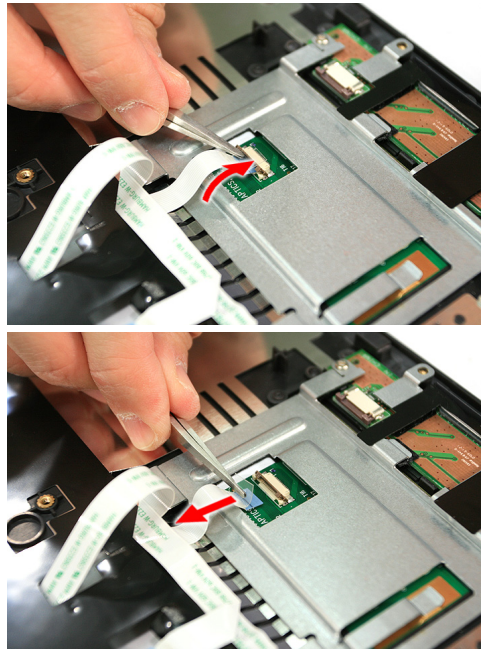
Removing the Touch Pad Board Module

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.
5. See “Removing the Secondary HDD Cover” on page 65.
6. See “Removing the Secondary HDD Bracket and Connector” on page 66.
7. See “Removing the DIMM” on page 68.
8. See “Removing the WLAN Board Modules” on page 68.
9. See “Removing the Hard Disk Drive Module” on page 69.
10. See “Removing the Optical Drive Module” on page 70.
11. See “Removing the Modem Board” on page 73.
12. See “Removing the Heatsink Fan Module” on page 74.
13. See “Removing the CPU and VGA Heatsink Module” on page 75.

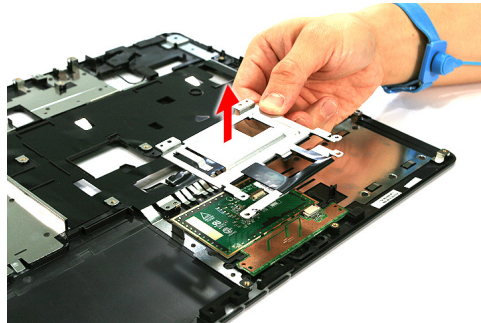
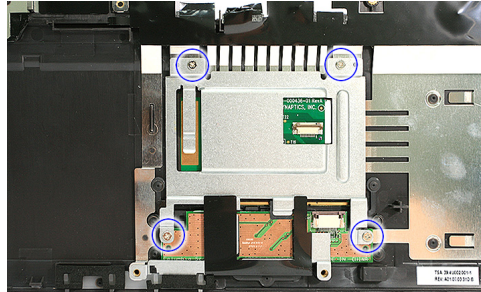
14. See “Removing the CPU” on page 77.
15. See “Removing the VGA board (for Discrete model only)” on page 77.
16. See “Removing the Middle Cover and the Power Board” on page 78.
17. See “Removing the Keyboard” on page 80.
18. See “Removing the LCD Module” on page 81.
19. See “Separating the Upper Case from the Lower Case” on page 84.
20. Remove the fingerprint cable from the fingerprint board.



21. Remove the touch pad cable from the touch pad board.

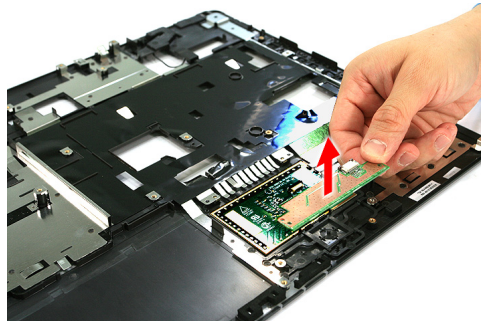


22. Remove the four screws (C) on the touch pad bracket and remove the touch pad bracket from the upper case.

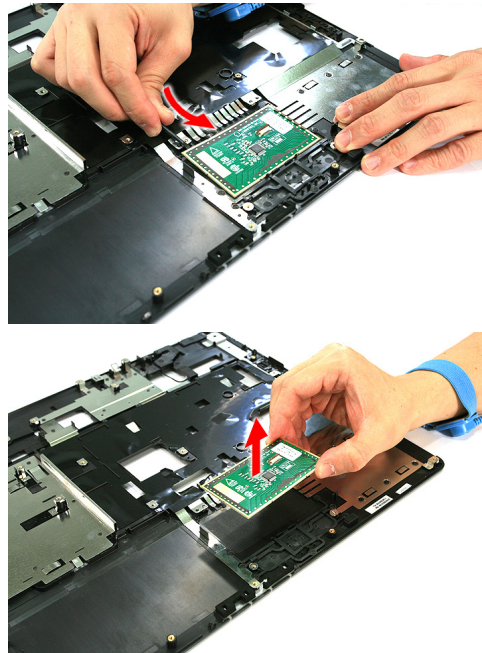


| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~4 | M2 x L4 (4) | Silver | 1.6 kgf-cm |

23. Remove the fingerprint board from the upper case.



-
24. Carefully pry loose and remove the touch pad board.



WARNING:The touchpad board is glued to the upper case, only remove the touchpad board if it is defective.

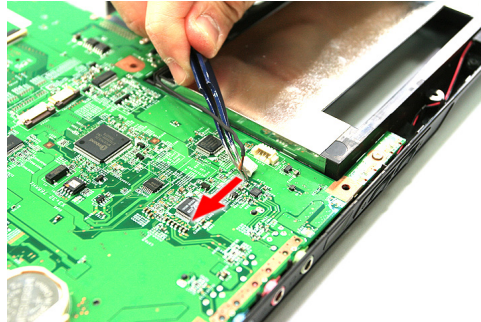
Removing the Main Board

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.
5. See “Removing the Secondary HDD Cover” on page 65.
6. See “Removing the Secondary HDD Bracket and Connector” on page 66.
7. See “Removing the DIMM” on page 68.
8. See “Removing the WLAN Board Modules” on page 68.
9. See “Removing the Hard Disk Drive Module” on page 69.
10. See “Removing the Optical Drive Module” on page 70.
11. See “Removing the Modem Board” on page 73.
12. See “Removing the Heatsink Fan Module” on page 74.
13. See “Removing the CPU and VGA Heatsink Module” on page 75.
14. See “Removing the CPU” on page 77.
15. See “Removing the VGA board (for Discrete model only)” on page 77.
16. See “Removing the Middle Cover and the Power Board” on page 78.
17. See “Removing the Keyboard” on page 80.
18. See “Removing the LCD Module” on page 81.
19. See “Separating the Upper Case from the Lower Case” on page 84.

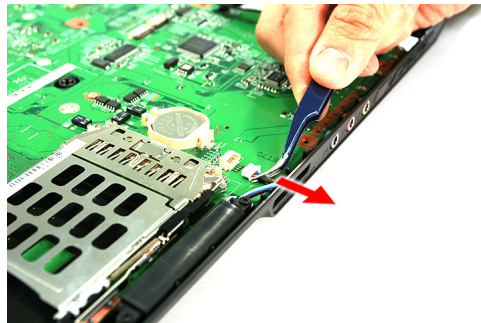
20. Disconnect the USB cable from the main board.



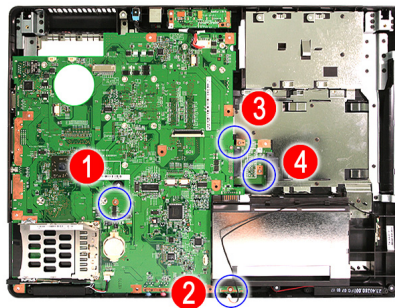
21. Disconnect the Bluetooth cable from the BLUE1 connector on the main board.



22. Disconnect the speaker cable from the SPKR1 on the main board.

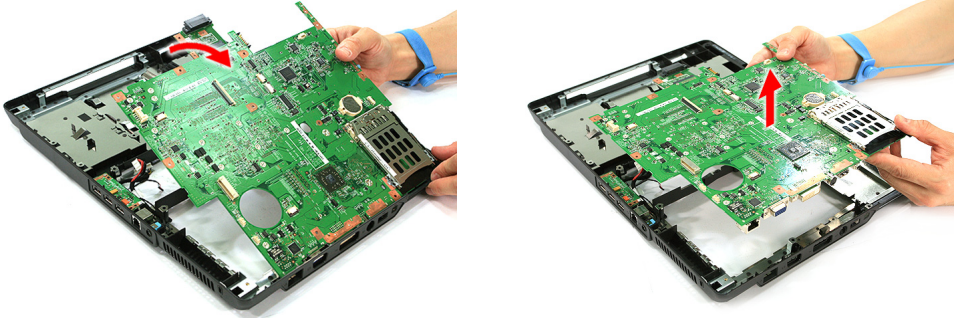


23. Remove the four screws (C) holding the main board.



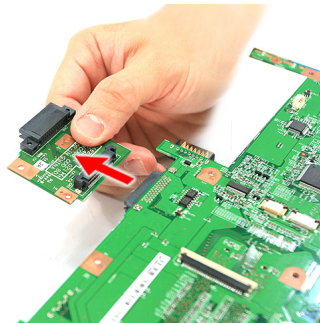
| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~4 | M2 x L4 (4) | Silver | 1.6 kgf-cm |

24. Carefully remove the main board from the bottom panel.



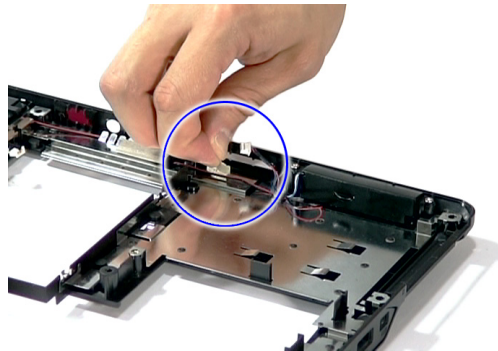
Removing the ODD Board Module

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.
5. See “Removing the Secondary HDD Cover” on page 65.
6. See “Removing the Secondary HDD Bracket and Connector” on page 66.
7. See “Removing the DIMM” on page 68.
8. See “Removing the WLAN Board Modules” on page 68.
9. See “Removing the Hard Disk Drive Module” on page 69.
10. See “Removing the Optical Drive Module” on page 70.
11. See “Removing the Modem Board” on page 73.
12. See “Removing the Heatsink Fan Module” on page 74.
13. See “Removing the CPU and VGA Heatsink Module” on page 75.
14. See “Removing the CPU” on page 77.
15. See “Removing the VGA board (for Discrete model only)” on page 77.
16. See “Removing the Middle Cover and the Power Board” on page 78.
17. See “Removing the Keyboard” on page 80.
18. See “Removing the LCD Module” on page 81.
19. See “Separating the Upper Case from the Lower Case” on page 84.
20. See “Removing the Main Board” on page 90.
21. Detach the ODD board module from the main board.

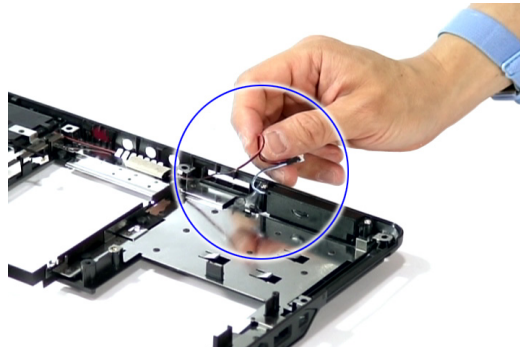


Removing the Speaker Modules

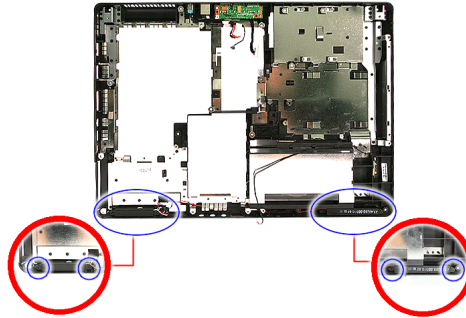
1. See “Removing the Battery Pack” on page 62.
2. See “Removing the SD dummy card” on page 63.
3. See “Removing the PC and ExpressCard dummy cards” on page 63.
4. See “Removing the Lower Cover” on page 64.
5. See “Removing the Secondary HDD Cover” on page 65.
6. See “Removing the Secondary HDD Bracket and Connector” on page 66.
7. See “Removing the DIMM” on page 68.
8. See “Removing the WLAN Board Modules” on page 68.
9. See “Removing the Hard Disk Drive Module” on page 69.
10. See “Removing the Optical Drive Module” on page 70.
11. See “Removing the Modem Board” on page 73.
12. See “Removing the Heatsink Fan Module” on page 74.
13. See “Removing the CPU and VGA Heatsink Module” on page 75.
14. See “Removing the CPU” on page 77.
15. See “Removing the VGA board (for Discrete model only)” on page 77.
16. See “Removing the Middle Cover and the Power Board” on page 78.
17. See “Removing the Keyboard” on page 80.
18. See “Removing the LCD Module” on page 81.
19. See “Separating the Upper Case from the Lower Case” on page 84.
20. See “Removing the Main Board” on page 90.
21. Remove the tape securing the speaker cables in place.



22. Release the speaker cables from the latches.

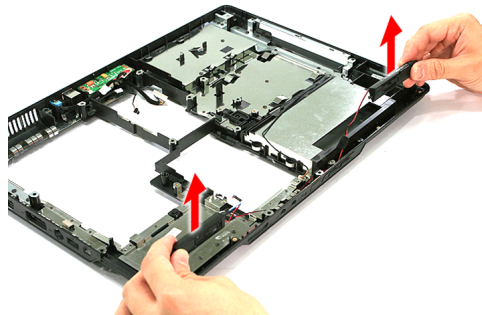


23. Remove the four screws (C) holding the left and right speakers.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~4 | M2 x L4 (4) | Silver | 1.6 kgf-cm |

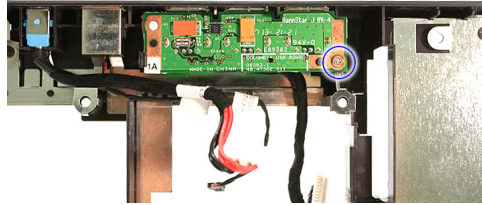
24. Remove the left and right speakers from the upper case.



Removing the USB Board

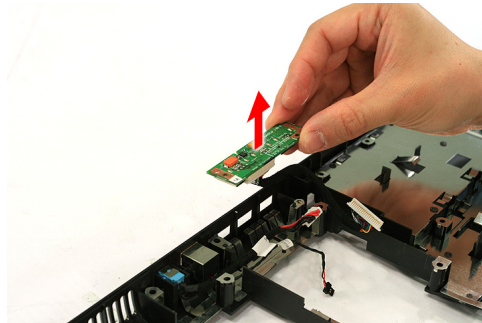
1. See "Removing the Battery Pack" on page 62.
2. See "Removing the SD dummy card" on page 63.
3. See "Removing the PC and ExpressCard dummy cards" on page 63.
4. See "Removing the Lower Cover" on page 64.
5. See "Removing the Secondary HDD Cover" on page 65.
6. See "Removing the Secondary HDD Bracket and Connector" on page 66.
7. See "Removing the DIMM" on page 68.
8. See "Removing the WLAN Board Modules" on page 68.
9. See "Removing the Hard Disk Drive Module" on page 69.
10. See "Removing the Optical Drive Module" on page 70.
11. See "Removing the Modem Board" on page 73.
12. See "Removing the Heatsink Fan Module" on page 74.
13. See "Removing the CPU and VGA Heatsink Module" on page 75.
14. See "Removing the CPU" on page 77.
15. See "Removing the VGA board (for Discrete model only)" on page 77.
16. See "Removing the Middle Cover and the Power Board" on page 78.
17. See "Removing the Keyboard" on page 80.
18. See "Removing the LCD Module" on page 81.
19. See "Separating the Upper Case from the Lower Case" on page 84.
20. See "Removing the Main Board" on page 90.

21. Remove the one screw (C) securing the USB board to the lower case.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1 | M2 x L4 (1) | Silver | 1.6 kgf-cm |

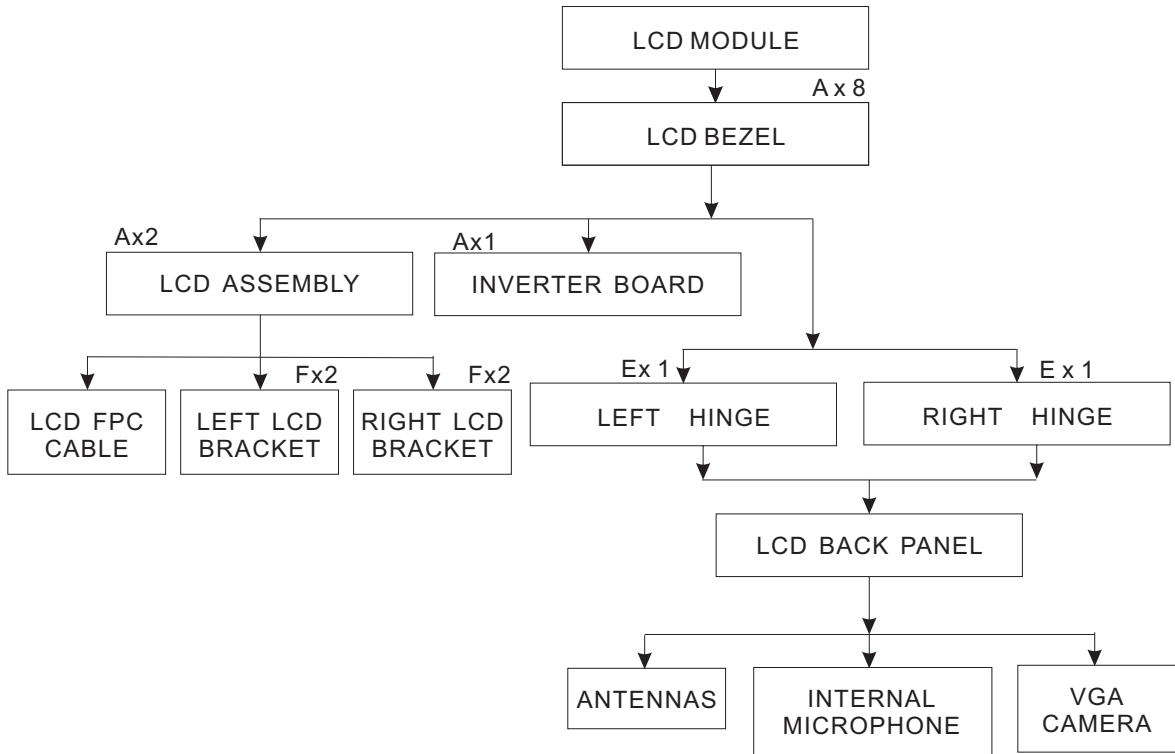
22. Remove the USB Board from the lower case.



LCD Module Disassembly Process

LCD Module Disassembly Flowchart

LCD MODULE DISASSEMBLY



Main Screw List

| Item | Screw | Part No. |
|------|-----------|--------------|
| A | M2.5 x L6 | 86.00E33.736 |
| E | M2.5 x L5 | 86.00F19.735 |
| F | M2 x L3 | 86.00C07.220 |

Removing the LCD Bezel

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the Lower Cover” on page 64.
3. See “Removing the WLAN Board Modules” on page 68.
4. See “Removing the Middle Cover and the Power Board” on page 78.
5. See “Removing the LCD Module” on page 81.
6. Remove the four upper bezel screw caps and the four lower bezel caps.

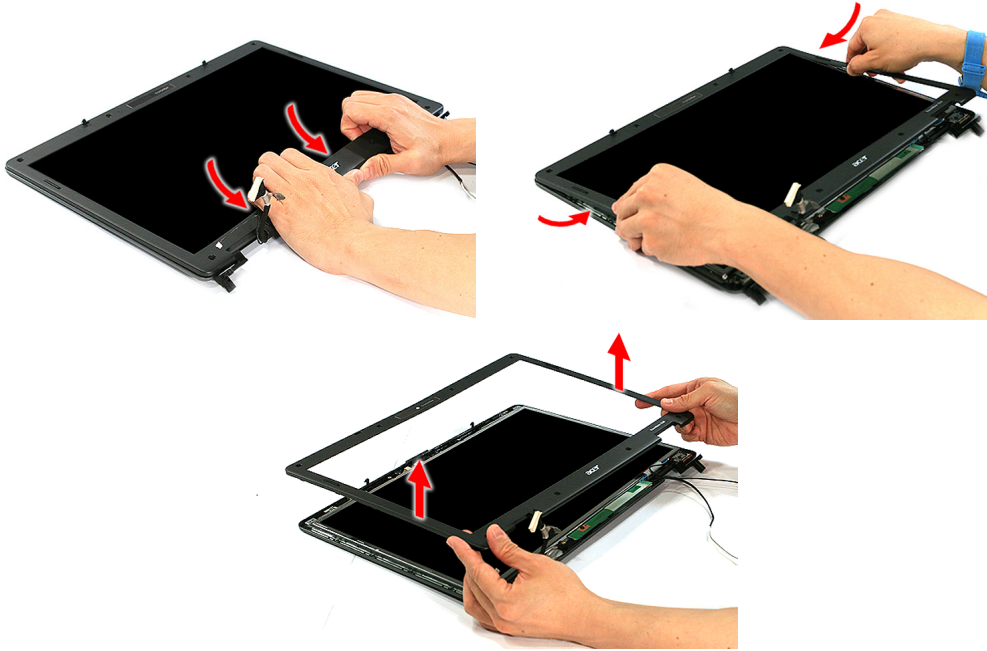


7. Remove the eight screws (A) on the LCD module in the order as shown.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~8 | M2.5 x L6 (8) | Black | 3.0 kgf-cm |

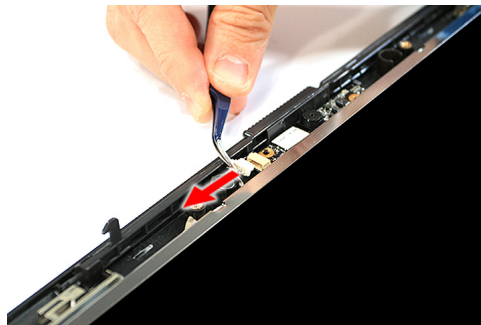
8. Carefully pry open the LCD bezel and remove the bezel from the LCD module.



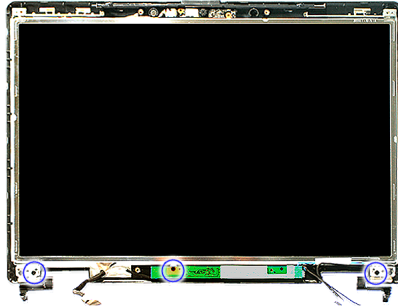
NOTE: The bottom side of the bezel is glued to the lcd panel, be careful when trying to remove the bezel.

Removing the LCD module with the Brackets

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the Lower Cover” on page 64.
3. See “Removing the WLAN Board Modules” on page 68.
4. See “Removing the Middle Cover and the Power Board” on page 78.
5. See “Removing the LCD Module” on page 81.
6. See “Removing the LCD Bezel” on page 97.
7. Disconnect the cable from the camera board.

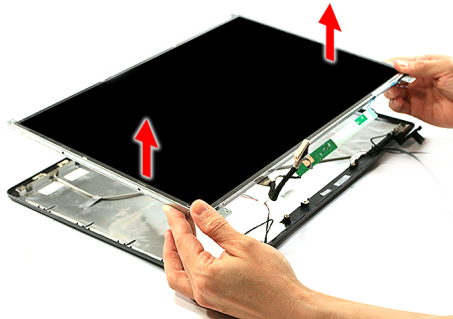


- Remove the three screws (A) securing the LCD module and the Inverter panel.



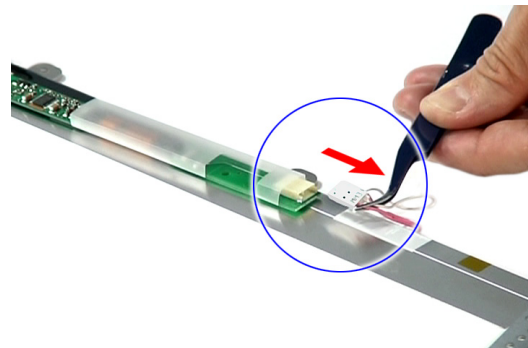
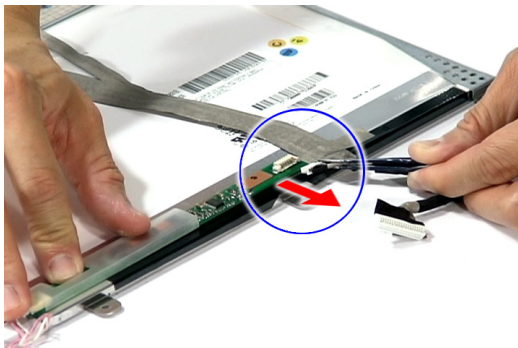
| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~3 | M2.5 x L6 (3) | Black | 3.0 kgf-cm |

- Detach the LCD with the brackets from the back cover.

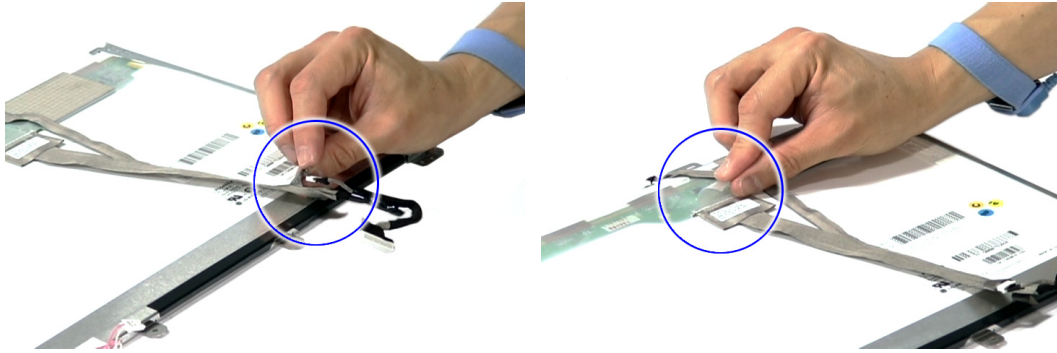


Removing the Inverter Board and FPC Cable

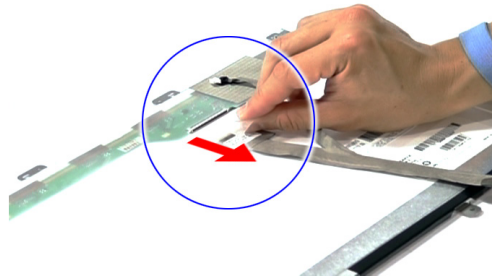
- See “Removing the Battery Pack” on page 62.
- See “Removing the Lower Cover” on page 64.
- See “Removing the WLAN Board Modules” on page 68.
- See “Removing the Middle Cover and the Power Board” on page 78.
- See “Removing the LCD Module” on page 81.
- See “Removing the LCD Bezel” on page 97.
- See “Removing the LCD module with the Brackets” on page 98.
- Disconnect the inverter board cable from its connector, then disconnect the 2P cable on the inverter board to remove it.



- Detach the acetic tapes holding the FPC cable from the LCD panel and detach the acetic tape securing the FPC connector.

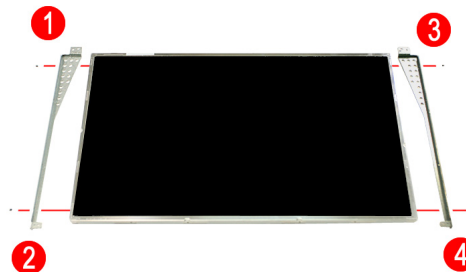


- Disconnect the FPC cable from the LCD panel.



Removing the LCD Brackets

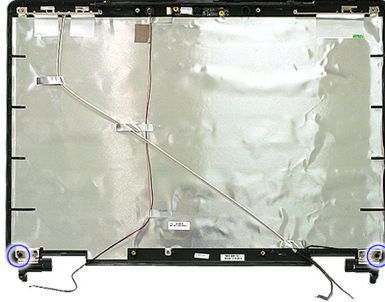
- See “Removing the Battery Pack” on page 62.
- See “Removing the Lower Cover” on page 64.
- See “Removing the WLAN Board Modules” on page 68.
- See “Removing the Middle Cover and the Power Board” on page 78.
- See “Removing the LCD Module” on page 81.
- See “Removing the LCD Bezel” on page 97.
- See “Removing the LCD module with the Brackets” on page 98.
- See “Removing the Inverter Board and FPC Cable” on page 99.
- Remove the four screws (F) securing the left and right LCD brackets to remove the brackets.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|--------|------------|
| 1~4 | M2 x L3 (4) | Silver | 1.6 kgf-cm |

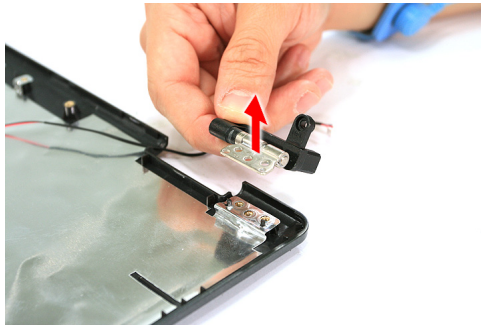
Removing the Left and Right Hinge

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the Lower Cover” on page 64.
3. See “Removing the WLAN Board Modules” on page 68.
4. See “Removing the Middle Cover and the Power Board” on page 78.
5. See “Removing the LCD Module” on page 81.
6. See “Removing the LCD Bezel” on page 97.
7. See “Removing the LCD module with the Brackets” on page 98.
8. Remove the two screws (E) securing the left and right hinge to the back cover.



| Step | Size (Quantity) | Color | Torque |
|------|-----------------|-------|------------|
| 1~2 | M2.5 x L5 (2) | Black | 2.5 kgf-cm |

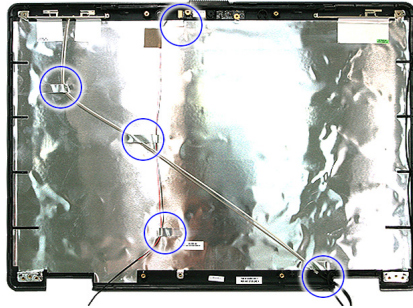
9. Remove the left and right hinge from the back cover.



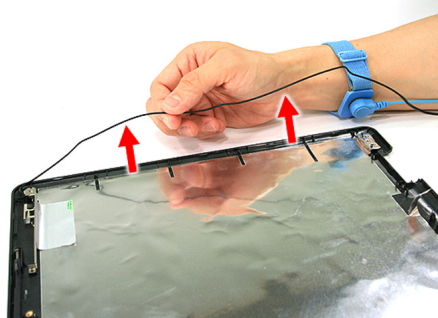
Removing the Antennas

1. See “Removing the Battery Pack” on page 62.
2. See “Removing the Lower Cover” on page 64.
3. See “Removing the WLAN Board Modules” on page 68.
4. See “Removing the Middle Cover and the Power Board” on page 78.
5. See “Removing the LCD Module” on page 81.
6. See “Removing the LCD Bezel” on page 97.
7. See “Removing the LCD module with the Brackets” on page 98.
8. See “Removing the Left and Right Hinge” on page 101.

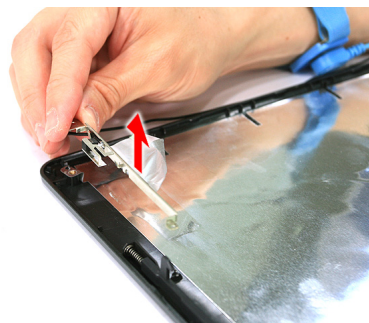
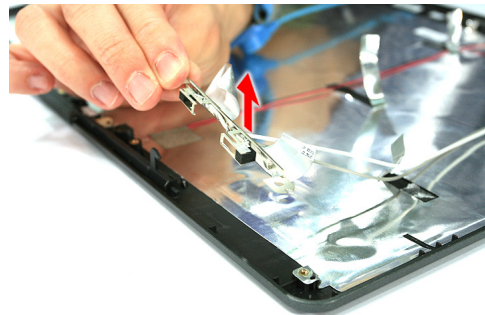
9. Loosen the aluminum tape holding the antennas in place.



10. Release the antenna cables from the latches.



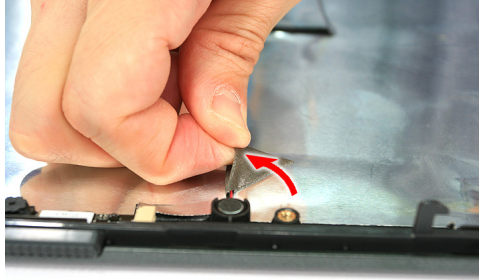
11. Remove the tapes together with the antenna cables from the back cover.



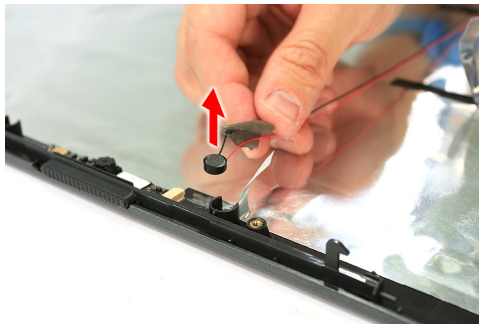
Removing the Internal Microphone and Web Camera

1. See "Removing the Battery Pack" on page 62.
2. See "Removing the Lower Cover" on page 64.
3. See "Removing the WLAN Board Modules" on page 68.
4. See "Removing the Middle Cover and the Power Board" on page 78.
5. See "Removing the LCD Module" on page 81.
6. See "Removing the LCD Bezel" on page 97.

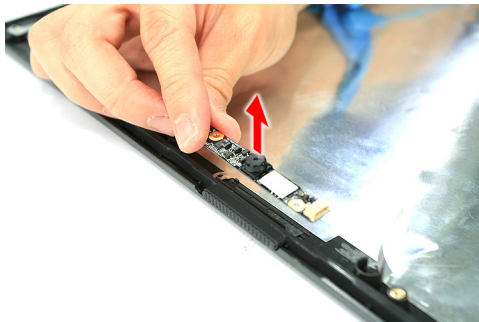
-
7. See “Removing the LCD module with the Brackets” on page 98.
 8. See “Removing the Left and Right Hinge” on page 101.
 9. See “Removing the Antennas” on page 101.
 10. Remove the tape holding the internal microphone in place.



11. Remove the internal microphone from the back cover.



12. Remove the Web camera from the back cover.



Troubleshooting

Use the following procedure as a guide for computer problems.

NOTE: The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

| Symptoms (Verified) | Go To |
|---|--|
| Power failure. (The power indicator does not go on or stay on.) | "Power System Check" on page 107. |
| POST does not complete. No beep or error codes are indicated. | "Power-On Self-Test (POST) Error Message" on page 110 "Undetermined Problems" on page 124 |
| POST detects an error and displayed messages on screen. | "Error Message List" on page 111 |
| Other symptoms (i.e. LCD display problems or others). | "Power-On Self-Test (POST) Error Message" on page 110 |
| Symptoms cannot be re-created (intermittent problems). | Use the customer-reported symptoms and go to "Power-On Self-Test (POST) Error Message" on page 110 "Intermittent Problems" on page 123 "Undetermined Problems" on page 124 |

System Check Procedures

External Diskette Drive Check

Do the following to isolate the problem to a controller, driver, or diskette. A write-enabled, diagnostic diskette is required.

NOTE: Make sure that the diskette does not have more than one label attached to it. Multiple labels can cause damage to the drive or cause the drive to fail.

Do the following to select the test device.

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if FDD Test is passed as the program runs to FDD Test.
3. Follow the instructions in the message window.

If an error occurs with the internal diskette drive, reconnect the diskette connector on the system board.

If the error still remains:

1. Reconnect the external diskette drive/DVD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

External CD-ROM Drive Check

Do the following to isolate the problem to a controller, drive, or CD-ROM. Make sure that the CD-ROM does not have any label attached to it. The label can cause damage to the drive or can cause the drive to fail.

Do the following to select the test device:

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if CD-ROM Test is passed when the program runs to CD-ROM Test.
3. Follow the instructions in the message window.

If an error occurs, reconnect the connector on the System board. If the error still remains:

1. Reconnect the external diskette drive/CD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

Keyboard or Auxiliary Input Device Check

Remove the external keyboard if the internal keyboard is to be tested.

If the internal keyboard does not work or an unexpected character appears, make sure that the flexible cable extending from the keyboard is correctly seated in the connector on the system board.

If the keyboard cable connection is correct, run the Keyboard Test.

If the tests detect a keyboard problem, do the following one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the keyboard cables.
2. Replace the keyboard.
3. Replace the main board.

The following auxiliary input devices are supported by this computer:

- Numeric keypad

-
- External keyboard

If any of these devices do not work, reconnect the cable connector and repeat the failing operation.

Memory check

Memory errors might stop system operations, show error messages on the screen, or hang the system.

1. Boot from the diagnostics diskette and start the diagnostic program (please refer to main board).
2. Go to the diagnostic memory in the test items.
3. Press F2 in the test items.
4. Follow the instructions in the message window.

NOTE: Make sure that the DIMM is fully installed into the connector. A loose connection can cause an error.

Power System Check

To verify the symptom of the problem, power on the computer using each of the following power sources:

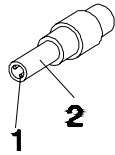
1. Remove the battery pack.
2. Connect the power adapter and check that power is supplied.
3. Disconnect the power adapter and install the charged battery pack; then check that power is supplied by the battery pack.

If you suspect a power problem, see the appropriate power supply check in the following list:

- "Check the Power Adapter" on page 108
- "Check the Battery Pack" on page 109

Check the Power Adapter

Unplug the power adapter cable from the computer and measure the output voltage at the plug of the power adapter cable. See the following figure



Pin 1: +19 to +20.5V
Pin 2: 0V, Ground

1. If the voltage is not correct, replace the power adapter.
2. If the voltage is within the range, do the following:
 - Replace the System board.
 - If the problem is not corrected, see “Undetermined Problems” on page 124.
 - If the voltage is not correct, go to the next step.

NOTE: An audible noise from the power adapter does not always indicate a defect.

3. If the power-on indicator does not light up, check the power cord of the power adapter for correct continuity and installation.
4. If the operational charge does not work, see “Check the Battery Pack” on page 109.

Check the Battery Pack

To check the battery pack, do the following:

From Software:

1. Check out the Power Management in control Panel
2. In Power Meter, confirm that if the parameters shown in the screen for Current Power Source and Total Battery Power Remaining are correct.
3. Repeat the steps 1 and 2, for both battery and adapter.
4. This helps you identify first the problem is on recharging or discharging.

From Hardware:

1. Power off the computer.
2. Remove the battery pack and measure the voltage between battery terminals 1(+) and 6(ground).
3. If the voltage is still less than 7.5 Vdc after recharging, replace the battery.

To check the battery charge operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

If the battery status indicator does not light up, remove the battery pack and let it return to room temperature. Re-install the battery pack.

If the charge indicator still does not light up, replace the battery pack. If the charge indicator still does not light up, replace the DC/DC charger board.

Touchpad Check

If the touchpad doesn't work, do the following actions one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the touchpad cables.
2. Replace the touchpad.
3. Replace the system board.

After you use the touchpad, the pointer drifts on the screen for a short time. This self-acting pointer movement can occur when a slight, steady pressure is applied to the touchpad pointer. This symptom is not a hardware problem. No service actions are necessary if the pointer movement stops in a short period of time.

Power-On Self-Test (POST) Error Message

The POST error message index lists the error message and their possible causes. The most likely cause is listed first.

NOTE: Perform the FRU replacement or actions in the sequence shown in FRU/Action column, if the FRU replacement does not solve the problem, put the original part back in the computer. Do not replace a non-defective FRU.

This index can also help you determine the next possible FRU to be replaced when servicing a computer.

If the symptom is not listed, see “Undetermined Problems” on page 124.

The following lists the error messages that the BIOS displays on the screen and the error symptoms classified by function.

NOTE: Most of the error messages occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured.

NOTE: If the system fails after you make changes in the BIOS Setup Utility menus, reset the computer, enter Setup and install Setup defaults or correct the error.

Index of Error Messages

Error Code List

| Error Codes | Error Messages |
|-----------------|--|
| 006 | Equipment Configuration Error Causes: 1. CPU BIOS Update Code Mismatch 2. IDE Primary Channel Master Drive Error (The causes will be shown before "Equipment Configuration Error") |
| 010 | Memory Error at xxxx:xxxx:xxxxh (R:xxxxh, W:xxxxh) |
| 070 | Real Time Clock Error |
| 071 | CMOS Battery Bad |
| 072 | CMOS Checksum Error |
| 110 | System disabled. Incorrect password is specified. |
| <No error code> | Battery critical LOW In this situation BIOS will issue 4 short beeps then shut down system, no message will show. |
| <No error code> | Thermal critical High In this situation BIOS will shut down system, not show message. |

Error Message List

| Error Messages | FRU/Action in Sequence |
|---|---|
| Failure Fixed Disk | Reconnect hard disk drive connector. "Load Default Settings" in BIOS Setup Utility. Hard disk drive System board |
| Stuck Key | see "Keyboard or Auxiliary Input Device Check" on page 106. |
| Keyboard error | see "Keyboard or Auxiliary Input Device Check" on page 106. |
| Keyboard Controller Failed | see "Keyboard or Auxiliary Input Device Check" on page 106. |
| Keyboard locked - Unlock key switch | Unlock external keyboard |
| Monitor type does not match CMOS - Run Setup | Run "Load Default Settings" in BIOS Setup Utility. |
| Shadow RAM Failed at offset: nnnn | BIOS ROM System board |
| System RAM Failed at offset: nnnn | DIMM System board |
| Extended RAM Failed at offset: nnnn | DIMM System board |
| System battery is dead - Replace and run Setup | Replace RTC battery and Run BIOS Setup Utility to reconfigure system time, then reboot system. |
| System CMOS checksum bad - Default configuration used | RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. |

Error Message List

| Error Messages | FRU/Action in Sequence |
|---|--|
| System timer error | RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board |
| Real time clock error | RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board |
| Previous boot incomplete - Default configuration used | Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board |
| Memory size found by POST differed from CMOS | Run "Load Default Settings" in BIOS Setup Utility. DIMM System board |
| Diskette drive A error | Check the drive is defined with the proper diskette type in BIOS Setup Utility See "External Diskette Drive Check" on page 106. |
| Incorrect Drive A type - run SETUP | Check the drive is defined with the proper diskette type in BIOS Setup Utility |
| System cache error - Cache disabled | System board |
| CPU ID: | System board |
| DMA Test Failed | DIMM System board |
| Software NMI Failed | DIMM System board |
| Fail-Safe Timer NMI Failed | DIMM System board |
| Device Address Conflict | Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board |
| Allocation Error for device | Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board |
| Failing Bits: nnnn | DIMM BIOS ROM System board |
| Fixed Disk n | None |
| Invalid System Configuration Data | BIOS ROM System board |
| I/O device IRQ conflict | Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board |
| Operating system not found | Enter Setup and see if fixed disk and drive A: are properly identified. Diskette drive Hard disk drive System board |

Error Message List

| No beep Error Messages | FRU/Action in Sequence |
|---|--|
| No beep, power-on indicator turns off and LCD is blank. | Power source (battery pack and power adapter). See "Power System Check" on page 107.. Ensure every connector is connected tightly and correctly. Reconnect the DIMM. LED board. System board. |
| No beep, power-on indicator turns on and LCD is blank. | Power source (battery pack and power adapter). See "Power System Check" on page 107.. Reconnect the LCD connector Hard disk drive LCD inverter ID LCD cable LCD Inverter LCD System board |
| No beep, power-on indicator turns on and LCD is blank. But you can see POST on an external CRT. | Reconnect the LCD connectors. LCD inverter ID LCD cable LCD inverter LCD System board |
| No beep, power-on indicator turns on and a blinking cursor shown on LCD during POST. | Ensure every connector is connected tightly and correctly. System board |
| No beep during POST but system runs correctly. | Speaker System board |

Phoenix BIOS Beep Codes

| Code | Beeps | POST Routine Description |
|------|---------|--|
| 02h | | Verify Real Mode |
| 03h | | Disable Non-Maskable Interrupt (NMI) |
| 04h | | Get CPU type |
| 06h | | Initialize system hardware |
| 08h | | Initialize chipset with initial POST values |
| 09h | | Set IN POST flag |
| 0Ah | | Initialize CPU registers |
| 0Bh | | Enable CPU cache |
| 0Ch | | Initialize caches to initial POST values |
| 0Eh | | Initialize I/O component |
| 0Fh | | Initialize the local bus IDE |
| 10h | | Initialize Power Management |
| 11h | | Load alternate registers with initial POST values |
| 12h | | Restore CPU control word during warm boot |
| 13h | | Initialize PCI Bus Mastering devices |
| 14h | | Initialize keyboard controller |
| 16h | 1-2-2-3 | BIOS ROM checksum |
| 17h | | Initialize cache before memory autosize |
| 18h | | 8254 timer initialization |
| 1Ah | | 8237 DMA controller initialization |
| 1Ch | | Reset Programmable Interrupt Controller |
| 20h | 1-3-1-1 | Test DRAM refresh |
| 22h | 1-3-1-3 | Test 8742 Keyboard Controller |
| 24h | | Set ES segment register to 4 GB |
| 26h | | Enable A20 line |
| 28h | | Autosize DRAM |
| 29h | | Initialize POST Memory Manager |
| 2Ah | | Clear 215 KB base RAM |
| 2Ch | 1-3-4-1 | RAM failure on address line xxxx |
| 2Eh | 1-3-4-3 | RAM failure on data bits xxxx of low byte of memory bus |
| 2Fh | | Enable cache before system BIOS shadow |
| 30h | 1-4-1-1 | RAM failure on data bits xxxx of high byte of memory bus |
| 32h | | Test CPU bus-clock frequency |
| 33h | | Initialize Phoenix Dispatch Manager |
| 36h | | Warm start shut down |
| 38h | | Shadow system BIOS ROM |
| 3Ah | | Autosize cache |

| Code | Beeps | POST Routine Description |
|------|---------|--|
| 3Ch | | Advanced configuration of chipset registers |
| 3Dh | | Load alternate registers with CMOS values |
| 42h | | Initialize interrupt vectors |
| 45h | | POST device initialization |
| 46h | 2-1-2-3 | Check ROM copyright notice |
| 48h | | Check video configuration against CMOS |
| 49h | | Initialize PCI bus and devices |
| 4Ah | | Initialize all video adapters in system |
| 4Bh | | QuietBoot start (optional) |
| 4Ch | | Shadow video BIOS ROM |
| 4Eh | | Display BIOS copyright notice |
| 50h | | Display CPU type and speed |
| 51h | | Initialize EISA board |
| 52h | | Test keyboard |
| 54h | | Set key click if enabled |
| 58h | 2-2-3-1 | Test for unexpected interrupts |
| 59h | | Initialize POST display service |
| 5Ah | | Display prompt "Press F2 to enter SETUP" |
| 5Bh | | Disable CPU cache |
| 5Ch | | Test RAM between 512 and 640 KB |
| 60h | | Test extended memory |
| 62h | | Test extended memory address lines |
| 64h | | Jump to User Patch1 |
| 66h | | Configure advanced cache registers |
| 67h | | Initialize Multi Processor APIC |
| 68h | | Enable external and CPU caches |
| 69h | | Setup System Management Mode (SMM) area |
| 6Ah | | Display external L2 cache size |
| 6Bh | | Load custom defaults (optional) |
| 6Ch | | Display shadow-area message |
| 6Eh | | Display possible high address for UMB recovery |
| 70h | | Display error messages |
| 72h | | Check for configuration errors |
| 76h | | Check for keyboard errors |
| 7Ch | | Set up hardware interrupt vectors |
| 7Eh | | Initialize coprocessor if present |
| 80h | | Disable onboard Super I/O ports and IRQs |
| 81h | | Late POST device initialization |

| Code | Beeps | POST Routine Description |
|------|-------|--|
| 82h | | Detect and install external RS232 ports |
| 83h | | Configure non-MCD IDE controllers |
| 84h | | Detect and install external parallel ports |
| 85h | | Initialize PC-compatible PnP ISA devices |
| 86h | | Re-initialize onboard I/O ports |
| 87h | | Configure Motherboard Configurable Devices (optional) |
| 88h | | Initialize BIOS Area |
| 89h | | Enable Non-Maskable Interrupts (NMIs) |
| 8Ah | | Initialize Extended BIOS Data Area |
| 8Bh | | Test and initialize PS/2 mouse |
| 8Ch | | Initialize floppy controller |
| 8Fh | | Determine number of ATA drives (optional) |
| 90h | | Initialize hard-disk controllers |
| 91h | | Initialize local-bus hard-disk controllers |
| 92h | | Jump to UserPatch2 |
| 93h | | Build MPTABLE for multi-processor boards |
| 95h | | Install CD ROM for boot |
| 96h | | Clear huge ES segment register |
| 97h | | Fixup Multi Processor table |
| 98h | 1-2 | Search for option ROMs. One long, two short beeps on checksum failure. |
| 99h | | Check for SMART drive (optional) |
| 9Ah | | Shadow option ROMs |
| 9Ch | | Set up Power Management |
| 9Dh | | Initialize security engine (optional) |
| 9Eh | | Enable hardware interrupts |
| 9Fh | | Determine number of ATA and SCSI drives |
| A0h | | Set time of day |
| A2h | | Check key lock |
| A4h | | Initialize Typematic rate |
| A8h | | Erase F2 prompt |
| AAh | | Scan for F2 key stroke |
| ACh | | Enter SETUP |
| A Eh | | Clear Boot flag |
| B0h | | Check for errors |
| B2h | | POST done- prepare to boot operating system |
| B4h | 1 | One short beep before boot |
| B5h | | Terminate QuietBoot (optional) |
| B6h | | Check password (optional) |

| Code | Beeps | POST Routine Description |
|------|-------|--|
| B9h | | Prepare Boot |
| BAh | | Initialize DMI parameters |
| BBh | | Initialize PnP Option ROMs |
| BCh | | Clear parity checkers |
| BDh | | Display MultiBoot menu |
| BEh | | Clear screen (optional) |
| BFh | | Check virus and backup reminders |
| C0h | | Try to boot with INT 19 |
| C1h | | Initialize POST Error Manager (PEM) |
| C2h | | Initialize error logging |
| C3h | | Initialize error display function |
| C4h | | Initialize system error handler |
| C5h | | PnPnd dual CMOS (optional) |
| C6h | | Initialize notebook docking (optional) |
| C7h | | Initialize notebook docking late |
| C8h | | Force check (optional) |
| C9h | | Extended checksum (optional) |
| D2h | | Unknown interrupt |

| Code | Beeps | POST Routine Description |
|------|-------|-----------------------------------|
| E0h | | Initialize the chipset |
| E1h | | Initialize the bridge |
| E2h | | Initialize the CPU |
| E3h | | Initialize the system timer |
| E4h | | Initialize system I/O |
| E5h | | Check force recovery boot |
| E6h | | Checksum BIOS ROM |
| E7h | | Go to BIOS |
| E8h | | Set Huge Segment |
| E9h | | Initialize Multi Processor |
| EAh | | Initialize OEM special code |
| EBh | | Initialize PIC and DMA |
| ECh | | Initialize Memory type |
| EDh | | Initialize Memory size |
| EEh | | Shadow Boot Block |
| EFh | | System memory test |
| F0h | | Initialize interrupt vectors |
| F1h | | Initialize Run Time Clock |
| F2h | | Initialize video |
| F3h | | Initialize System Management Mode |
| F4h | 1 | Output one beep before boot |

| Code | Beeps | |
|-------------|--------------|--------------------|
| F5h | | Boot to Mini DOS |
| F6h | | Clear Huge Segment |
| F7h | | Boot to Full DOS |

Index of Symptom-to-FRU Error Message

LCD-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|--|
| LCD backlight doesn't work LCD is too dark LCD brightness cannot be adjusted LCD contrast cannot be adjusted | Enter BIOS Utility to execute "Load Setup Default Settings", then reboot system. Reconnect the LCD connectors. Keyboard (if contrast and brightness function key doesn't work). LCD inverter ID LCD cable LCD inverter LCD System board |
| Unreadable LCD screen Missing pels in characters Abnormal screen Wrong color displayed | Reconnect the LCD connector LCD inverter ID LCD cable LCD inverter LCD System board |
| LCD has extra horizontal or vertical lines displayed. | LCD inverter ID LCD inverter LCD cable LCD System board |

Indicator-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|--|
| Indicator incorrectly remains off or on, but system runs correctly | Reconnect the inverter board Inverter board System board |

Power-Related Symptoms

| Symptom / Error | Action in Sequence |
|-----------------------------------|--|
| Power shuts down during operation | Power source (battery pack and power adapter). See "Power System Check" on page 107. Battery pack Power adapter Hard drive & battery connection board System board |
| The system doesn't power-on. | Power source (battery pack and power adapter). See "Power System Check" on page 107. Battery pack Power adapter Hard drive & battery connection board System board |

Power-Related Symptoms

| Symptom / Error | Action in Sequence |
|-------------------------------|--|
| The system doesn't power-off. | Power source (battery pack and power adapter). See "Power System Check" on page 107. Hold and press the power switch for more than 4 seconds. System board |
| Battery can't be charged | See "Check the Battery Pack" on page 109. Battery pack System board |

PCMCIA-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|--------------------------------------|
| System cannot detect the PC Card (PCMCIA) | PCMCIA slot assembly System board |
| PCMCIA slot pin is damaged. | PCMCIA slot assembly |

Memory-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|---|
| Memory count (size) appears different from actual size. | Enter BIOS Setup Utility to execute "Load Default Settings, then reboot system. DIMM System board |

Speaker-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|---|
| In Windows, multimedia programs, no sound comes from the computer. | Audio driver Speaker System board |
| Internal speakers make noise or emit no sound. | Speaker System board |

Power Management-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|--|
| The system will not enter hibernation | See "Save to Disk (S4)" on page 39. Keyboard (if control is from the keyboard) Hard disk drive System board |
| The system doesn't enter hibernation mode and four short beeps every minute. | Press Fn+0 and see if the computer enters hibernation mode. Touchpad Keyboard Hard disk connection board Hard disk drive System board |
| The system doesn't enter standby mode after closing the LCD | See "Save to Disk (S4)" on page 39. LCD cover switch System board |

Power Management-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|--|
| The system doesn't resume from hibernation mode. | See "Save to Disk (S4)" on page 39. Hard disk connection board Hard disk drive System board |
| The system doesn't resume from standby mode after opening the LCD. | See "Save to Disk (S4)" on page 39. LCD cover switch System board |
| Battery fuel gauge in Windows doesn't go higher than 90%. | Remove battery pack and let it cool for 2 hours. Refresh battery (continue use battery until power off, then charge battery). Battery pack System board |
| System hangs intermittently. | Reconnect hard disk/CD-ROM drives. Hard disk connection board System board |

Peripheral-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|---|
| System configuration does not match the installed devices. | Enter BIOS Setup Utility to execute "Load Default Settings", then reboot system. Reconnect hard disk/CD-ROM/diskette drives. |
| External display does not work correctly. | Press Fn+F5, LCD/CRT/Both display switching System board |
| USB does not work correctly | System board |
| Print problems. | Ensure the "Parallel Port" in the "Onboard Devices Configuration" of BIOS Setup Utility is set to Enabled. Onboard Devices Configuration Run printer self-test. Printer driver Printer cable Printer System Board |
| Serial or parallel port device problems. | Ensure the "Serial Port" in the Devices Configuration" of BIOS Setup Utility is set to Enabled. Device driver Device cable Device System board |

Keyboard/Touchpad-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|---|
| Keyboard (one or more keys) does not work. | Reconnect the keyboard cable. Keyboard System board |

Keyboard/Touchpad-Related Symptoms

| Symptom / Error | Action in Sequence |
|-------------------------|---|
| Touchpad does not work. | Reconnect touchpad cable. Touchpad board System board |

Modem-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|---|
| Internal modem does not work correctly. | Modem phone port modem combo board System board |

NOTE: If you cannot find a symptom or an error in this list and the problem remains, see “Undetermined Problems” on page 124.

Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

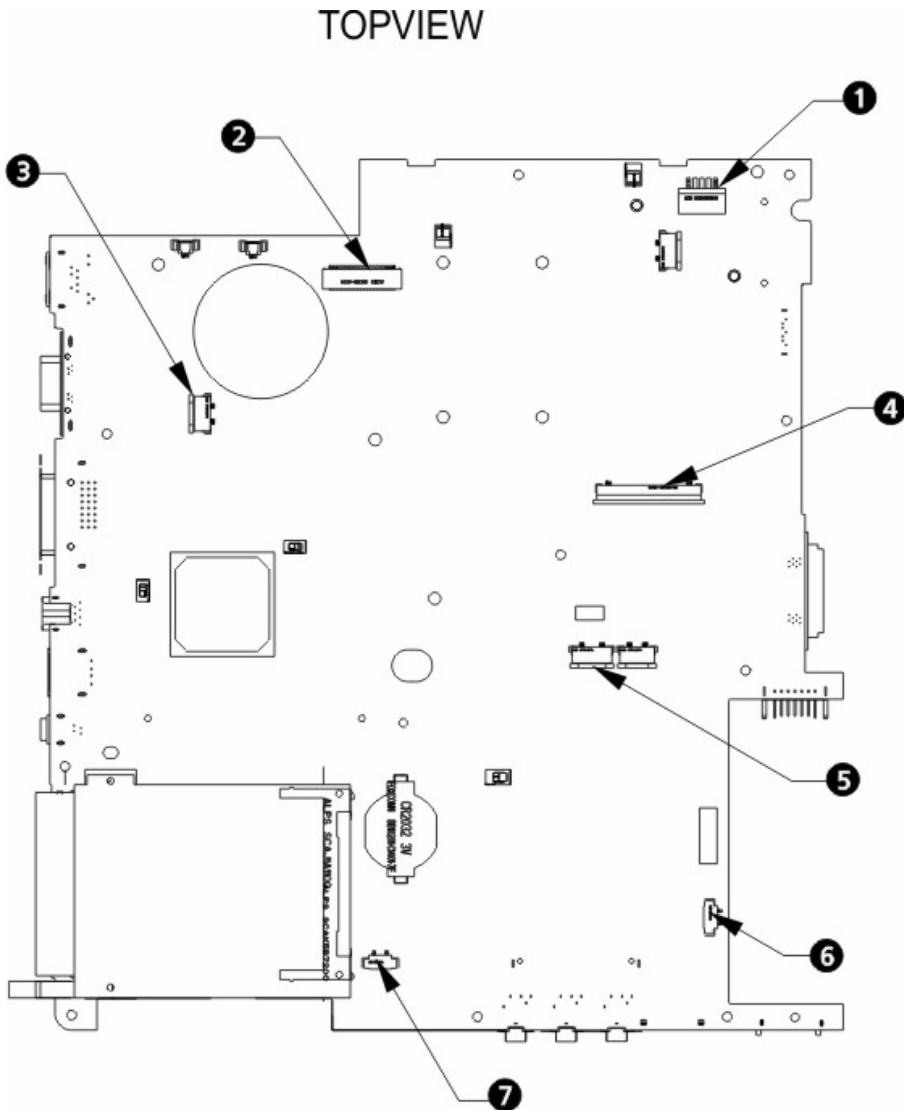
NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See "Power System Check" on page 107.):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
 - Non-Acer devices
 - Printer, mouse, and other external devices
 - Battery pack
 - Hard disk drive
 - DIMM
 - CD-ROM/Diskette drive Module
 - PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
 - System board
 - LCD assembly

Jumper and Connector Locations

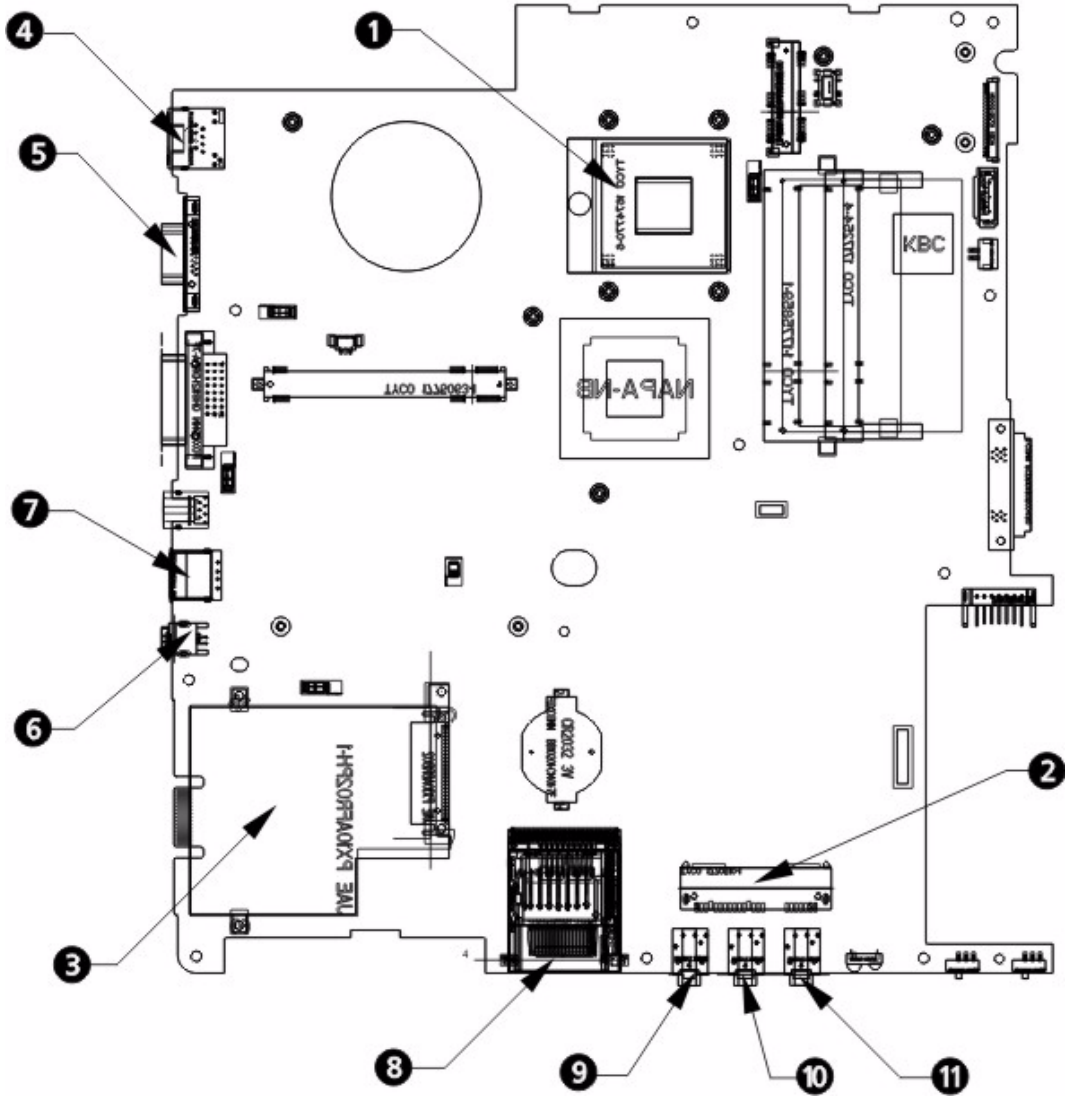
Top View



| No. | Description | No. | Description |
|-----|--------------------------|-----|--------------------------------|
| 1 | Power Cable Connector | 5 | Fingerprint/Touchpad Connector |
| 2 | LCD Cable Connector | 6 | Bluetooth Connector |
| 3 | Touchpad Board Connector | 7 | Speaker Connector |
| 4 | Keyboard Connector | | |

Bottom View

BOTTOMVIEW



| No. | Description | No. | Description |
|-----|----------------|-----|----------------|
| 1 | CPU | 7 | USB Connector |
| 2 | SATA Connector | 8 | Card Reader |
| 3 | PC Card Reader | 9 | Line-out jack |
| 4 | LAN Connector | 10 | Mic-in jack |
| 5 | CRT Connector | 11 | Headphone jack |
| 6 | 1394 Connector | | |

Standard Operation Procedures of Password Bypassing and BIOS Recovery

For RD and CSD to debug easily, the system provide one hardware DIP switch for Bypassing Password Check, and one Hotkey to enable BIOS Recovery.

1. DIP Switches:

| DIP | Default Setting | Description |
|-----|-----------------|--------------------------|
| SW1 | Disabled (High) | Bypassing Password Check |

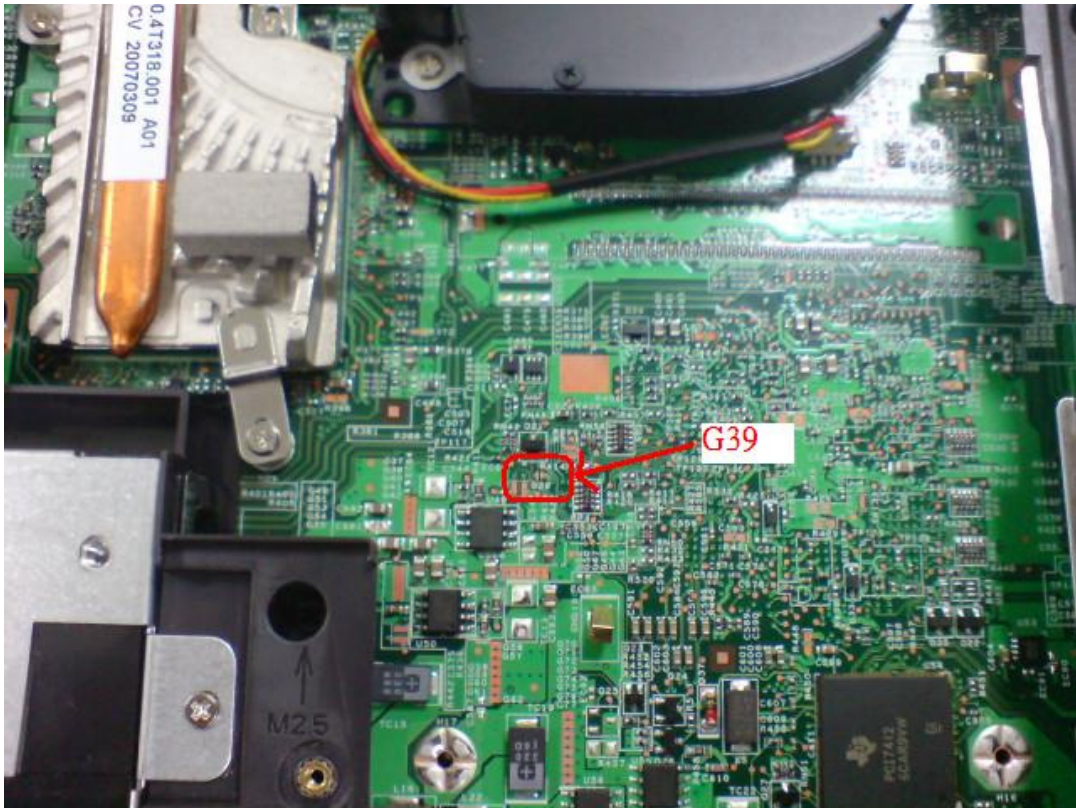
- Hotkey to enable BIOS Recovery: **Fn+ESC**, then Power Button. To use this function, it is strongly recommended that the AC adapter is connected to the system and plug-in to a wall outlet and the Battery is also in the system

Bypassing Password Check (SW1): If the user has set Password (power-on or setup password) for security reason, BIOS will check password during POST or when entering the BIOS setup menu. However, if it is necessary to ignore the password check, the user may enable DIP SW1 to bypass password check.

BIOS Recovery: Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. The user can enable this feature to restore the BIOS to a successful one if previous BIOS flashing process fails.

1. DIP Location:

RD/CSD can enable or disable this function by switching the DIP. The DIP switch is located as shown in the figure below:



2. Clear Password

DIP SW1: Bypassing Password Check, Disabled by default. Switching it to ON then powering on the system will force the BIOS to clear Supervisor and User passwords. The power-on, setup password, and the HDD password are all cleared.

3. Restore BIOS by the Crisis Disk

Enable this function by pressing the combination: **Fn+ESC**, and pressing the **Power Button**. To use this function, it is strongly recommended that the AC adapter is connected to the system and plug-in to a wall outlet and the Battery is also in the system. If this function is enabled, the system will force the BIOS to enter a

special BIOS block, called BootBlock. RD/CSD can use this special BIOS code to recover the BIOS to a successful one if previous BIOS flashing process fails. However, before doing this, one Crisis Disk should be prepared in WinXP. Detailed steps are as the followings:

- a. Prepare the Crisis Disk in WinXP.
- b. Insert the Crisis Disk to a USB floppy drive which is attached to the failed machine.
- c. While the system is turned off, press and hold **Fn+ESC**, then press **Power Button**. The system should be powered on with Crisis Recovery process.
- d. BootBlock BIOS starts to restore the failed BIOS code. Short beeps should be heard when flashing.
- e. If the flashing process is finished, a long beep should be heard.
- f. Power down the system after you hear the long beep.

If the crisis recovery process is finished, the system should be powered on with the successful BIOS. RD/CSD can then update the BIOS to a workable one by regular BIOS flashing process.

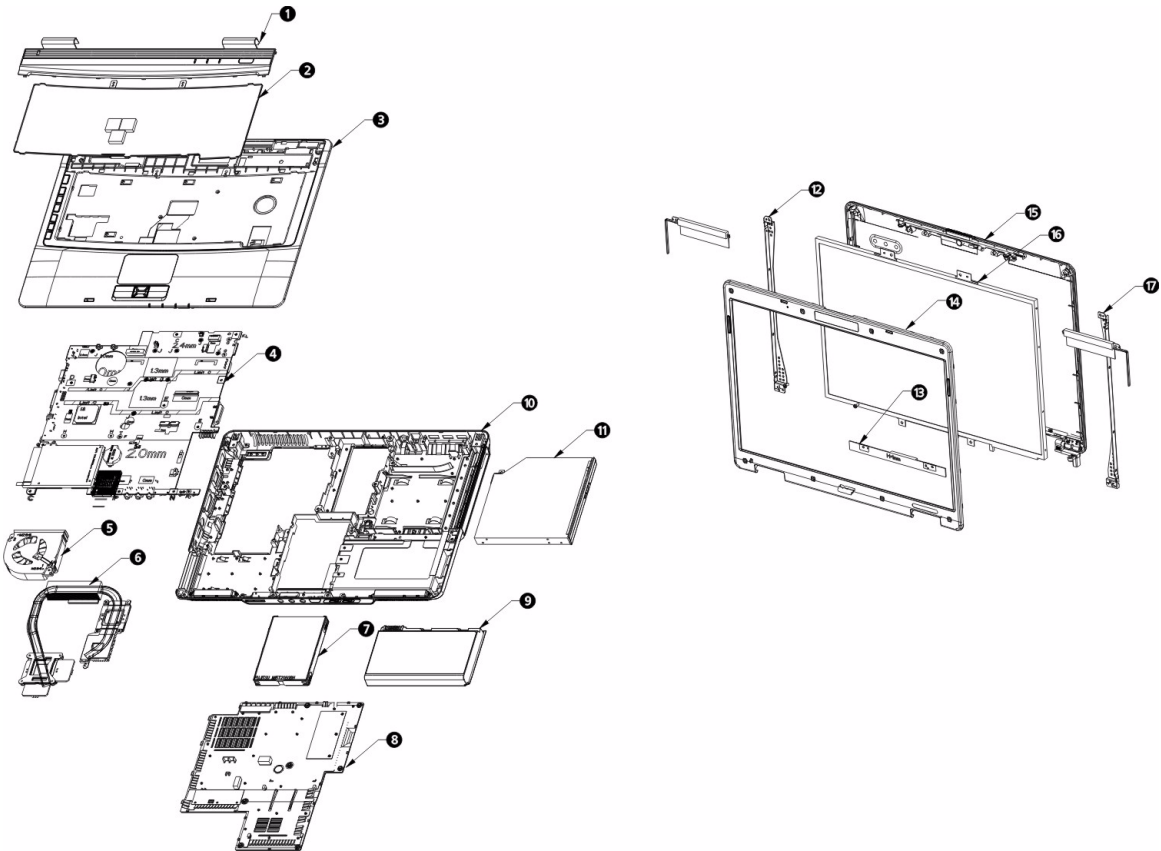
FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of TravelMate 5710/5310 and Extensa 5610/5210. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.




TravelMate 7720/7320 Exploded Diagram



TravelMate 7720/7320 FRU List



| Category | No. | Part Name and Description | Acer Part No. |
|----------|-----|------------------------------------|---------------|
| Adapter | | | |
| | | ADAPTER 90W DELTA ADP-90SB BBDAR | AP.09001.010 |
| | | ADAPTER 90W DELTA ADP-90SB BBEA LF | AP.09001.013 |
| | | ADAPTER 90W LITEON PA-1900-04WR | AP.09003.005 |
| | | ADAPTER 90W LITEON PA-1900-24AR | AP.09003.011 |
| Battery- | | | |

| Category | No. | Part Name and Description | Acer Part No. |
|---|-----|---|---------------|
| | | BATTERY PACK LI+ 6CELL 2.0MAH SANYO | BT.00603.029 |
| | | BATTERY PACK LI+ 6CELL 2.0MAH SONY | BT.00604.015 |
| | | BATTERY PACK LI 6CELL 2.0MAH PANASONIC | BT.00605.014 |
| | | BATTERY PACK LI 6CELL 2.0MAH SIMPLO | BT.00607.008 |
| | | BATTERY PACK LI+ 8CELL 2.4MAH SANYO | BT.00803.022 |
| | | BATTERY PACK LI+ 8CELL 2.4MAH SONY | BT.00804.019 |
| | | BATTERY PACK LI+ 8CELL 2.4MAH PANASONIC | BT.00805.010 |
| | | BATTERY PACK LI+ 8CELL 2.4MAH SIMPLO | BT.00807.013 |
| | | RTC BATTERY COIN BATTERY CR2032 MITSUBISHI | 23.TCZV1.004 |
| Boards | | | |
|  | | WIRELESS LAN BOARD 802.11ABG INTEL 3945 MW1 | KI.GLN01.001 |
| | | WIRELESS LAN BOARD 802.11ABG INTEL 3945 MW2 | KI.GLN01.002 |
| | | WIRELESS LAN BOARD 802.11ABG INTEL 3945 RW | KI.GLN01.003 |
| | | WIRELESS LAN BOARD 802.11ABG INTEL 3945BG | KI.GLN01.005 |
| | | WIRELESS LAN BOARD 802.11ABG KEDRON MOW1 | KI.KDN01.001 |
| | | WIRELESS LAN BOARD 802.11ABG KEDRON MOW2 | KI.KDN01.002 |
| | | WIRELESS LAN BOARD 802.11ABG KEDRON ROW | KI.KDN01.003 |
| | | VGA BOARD ATI MXM71 128MB GDDR HYNIX | 55.TK801.001 |
| | | USB BOARD COLUMBIA 06583-1 | 55.TK901.001 |
| | | LAUNCH BOARD COLUMBIA 06584-1 | 55.TK901.002 |
| | | POWER BOARD COLUMBIA 06585-1M | 55.TK901.003 |
|  | | TOUCHPAD SCROLL-KEY BOARD COLUMBIA 06587-1 | 56.TKC01.001 |
| | | TOUCHPAD BOARD SYNAPTICS TM00372-012 | 56.TK901.001 |
| | | INVERTER BOARD 17" DARFON VK.21189.801 | 19.TK901.001 |
| | | INVERTER BOARD 17" FOXCONN T62I249.00 | 19.TK901.002 |
| | | INVERTER BOARD 17" SUMIDA IV12151/T-LF | 19.TK901.003 |
| | | INVERTER BOARD 17" YEC YNV-W10 | 19.TK901.004 |
| | | MODEM BOARD FOXCONN T60M955.00 3.3V | FX.22500.009 |

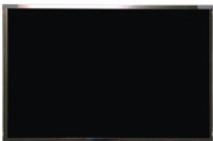
| Category | No. | Part Name and Description | Acer Part No. |
|---|-----|---------------------------|---------------|
| Cables | | | |
|  | | FINGER PRINT BOARD CABLE | 50.TK901.001 |
|  | | TOUCHPAD CABLE | 50.TK901.002 |
| | | LAUNCH BOARD CABLE | 50.TK901.003 |
| | | POWER BOARD CABLE | 50.TK901.004 |
| | | BLUETOOTH CABLE | 50.TK901.005 |
|  | | MODEM CABLE | 50.TK901.006 |
| | | USB BOARD CABLE | 50.TK901.007 |
| | | DC-IN CABLE | 50.TK901.008 |
| | | COVER SWITCH CABLE | 50.TK901.009 |
| | | LCD CABLE 15.4" | 50.TK901.011 |


| Category | No. | Part Name and Description | Acer Part No. |
|-----------------------------|-----|--|---------------|
| | | POWER CORD 10A 125V US | 27.T30V1.001 |
| | | POWER CORD 10A 125V 3PIN US BK | 27.01518.641 |
| | | POWER CORD 2.5A 125V 8121-USA/W CNS | 27.01518.781 |
| | | POWER CORD 220V 3PIN EUR | 27.T30V1.004 |
| | | POWER CABLE 16A 250V 3PIN EUR UK | 27.01518.731 |
| | | POWER CORD 3A 250V 3PIN UK | 27.01518.541 |
| | | POWER CORD 5A 250V 3PIN UK BK | 27.03118.001 |
| | | POWER CORD 10A 3PIN BK DENMARK | 27.01518.561 |
| | | POWER CORD 10A 250V 3PIN DENMARK BK | 27.01518.671 |
| | | POWER CORD 10A 250V 3PIN BK SOUTH AFRICA | 27.01518.571 |
| | | POWER CORD 16A 250V SOUTH AFRICA BK | 27.01518.681 |
| | | POWER CORD 10A 250V SWISS | 27.01518.581 |
| | | POWER CORD 10A 250V 3PIN SWISS BK | 27.01518.691 |
| | | POWER CORD 10A 250V 3PIN CHINA | 27.01518.591 |
| | | POWER CORD 10A 250V 3PIN CHINA BK | 27.01518.701 |
| | | POWER CORD 10A 250V 3PIN ITALY | 27.01518.611 |
| | | POWER CORD 10A 250V 3PIN ITALY BK | 27.01518.711 |
| | | POWER CORD 2.5A 250V SOUTH AFRICA BK (INDIA) | 27.01518.631 |
| | | POWER CORD 10A 250V SOUTH AFRICA BK (INDIA) | 27.01518.721 |
| | | POWER CORD 2.5A 250V AUSTRALIA | 27.01518.621 |
| | | POWER CORD ACA/ACNZ | 27.03218.021 |
| | | POWER CORD 7A 125V 2PIN JAPEN | 27.01518.551 |
| | | POWER CORD 7A 125V 2PIN JAPAN | 27.03518.161 |
| | | POWER CORD 7A 250V 2PIN KOREA | 27.01518.531 |
| | | POWER CORD 250V 10A 3PIN ISRAEL | 27.01518.761 |
| Case/Cover/Bracket/Assembly | | | |
| | | VGA BOARD BRACKET MXM BRACKET ASSEMBLY | 33.TK801.001 |
| | | TOUCH PAD BRACKET ASSEMBLY | 33.TK901.001 |
| | | PCMCIA DUMMY CARD | 42.TB1V1.003 |
| | | MIDDLE COVER ASSEMBLY | 42.TK901.001 |
| | | NEW CARD DUMMY CARD | 42.TK901.005 |
| | | SD DUMMY CARD | 42.TK901.006 |
| | | LOWER CASE W/SPEAKER W/O FIR & DVI | 60.TKC01.001 |

| Category | No. | Part Name and Description | Acer Part No. |
|---|-----|--|---------------|
| | | UPPER CASE W/ COVER SWITCH CABLE | 60.TKC01.002 |
| | | UNIT LOAD COVER L-CASE DOOR ASSEMBLY | 60.TK901.003 |
| | | OPTICAL BRACKET | 33.TK901.002 |
| | | COMBO BEZEL | 42.TK901.002 |
| | | DVD-RW BEZEL | 42.TK501.002 |
| | | HDD BRACKET ASSEMBLY | 33.TK901.003 |
| | | LCD BRACKET RIGHT | 33.TK901.004 |
| | | LCD BRACKET LEFT | 33.TK901.005 |
| | | LCD COVER 15.4" W/ HINGE & LOGO | 60.TKC01.005 |
| | | LCD BEZEL 15.4" W/ LOGO FOR CCD | 60.TK901.005 |
| | | HINGE PACK LEFT/RIGHT | 6K.TK901.001 |
| | | SPEAKER | 23.TK901.002 |
| Combo Module | | | |
|  | | COMBO MODULE 24X | 6M.TK901.001 |
|  | | COMBO MODULE 24X SONY CRX880A LF W/O BEZEL | KO.0240E.005 |
| | | COMBO MODULE 24X PANASONIC UJDA-780 LF W/O BEZEL | KO.02407.028 |
| CPU/Processor | | | |
|  | | CPU YONAH T2250 1.73GHZ INTEL | KC.22501.DDP |
| | | CPU YONAH T2250 1.73GHZ/533 INTEL | KC.22501.DTP |
| | | CPU YONAH T2350 1.86GHZ INTEL | KC.23501.DTP |
| | | CPU YONAH T2450 2.0GHZ INTEL | KC.24501.DTP |
| | | CPU MEROM T5200 1.6GHZ INTEL | KC.52001.DTP |
| | | CPU MEROM T5300 1.73GHZ INTEL | KC.53001.DTP |
| | | CPU MEROM T5500 1.66GHZ INTEL PGA B | KC.55001.DTP |

| Category | No. | Part Name and Description | Acer Part No. |
|---|-----|---|---------------|
| | | CPU MEROM T5500 1.66GHZ INTEL PGA | KC.55L01.DTP |
| | | CPU MEROM T5600 1.83GHZ INTEL PGA B | KC.56001.DTP |
| | | CPU MEROM T5600 1.83GHZ INTEL PGA | KC.56L01.DTP |
| | | CPU MEROM T7200 2.0GHZ INTEL PGA B2 | KC.72001.DTP |
| | | CPU MEROM T7400 2.16GHZ INTEL PGA B | KC.74001.DTP |
| | | CPU MEROM T7600 2.33GHZ INTEL | KC.76001.DTP |
| | | CPU YONAH CEL-M 430 1.73GHZ INTEL PGA | KC.N0001.430 |
| | | CPU YONAH CEL-M430 1.73GHZ INTEL | KC.ND001.430 |
| | | CPU YONAH 440 1.86GHZ INTEL PGA D0 | KC.ND001.440 |
| | | CPU MEROM CEL-M 520 1.63GHZ INTEL | KC.N0001.520 |
| | | CPU MEROM CEL-M 530 1.73GHZ INTEL | KC.N0001.530 |
| DVD-RW Drive | | | |
| | | ASSEMBLY SUPLER MULTI MODULE 8X | 6M.TK901.002 |
| DVD Module | | | |
|  | | DVD-RW DRIVE 8X S-MUTI PIONEERDVR-K17RS LF W/O BEZEL | KU.00805.038 |
| | | DVD-RW DRIVE 8X S-MULTI PANASONIC UJ-850UAA1-A LF W/O BEZEL | KU.00807.055 |
| | | DVD-RW DRIVE 8X S-MULTI PHILIPS DS-8A1P LF W/O BEZEL | KU.00809.010 |
| | | DVD-RW DRIVE 8X S-MULTI HLDS GSA-T20N LF W/O BEZEL | KU.0080D.027 |
| Fan | | | |
|  | | 15" FAN FORCECON | 23.TK901.001 |
| Heatsink | | | |
| | | CPU HEATSINK W/SCREW W/O FAN | 60.TKA01.002 |
| HDD/Hard Disk Drive | | | |

| Category | No. | Part Name and Description | Acer Part No. |
|---|-----|---|---------------|
|  | | HDD 80GB 5400RPM SATA SEAGATE ST980811AS VENUS LF | KH.08001.030 |
| | | HDD 80GB 5400RPM SATA HGST HTS541680J9SA00 SURUGA-B LF | KH.08007.021 |
| | | HDD 80GB 5400RPM SATA WD WD800BEVS-22RST0ML80 LF | KH.08008.033 |
| | | HDD 120GB 5400RPM SATA SEAGATE ST9120822AS VENUS LF | KH.12001.031 |
| | | HDD 120GB 5400RPM SATA HGST HTS541612J9SA00 SURUGA-B LF | KH.12007.010 |
| | | HDD 120GB 5400RPM SATA WD WD1200BEVS-22RST0 ML80 LF | KH.12008.018 |
| | | HDD 160GB 5400RPM SATA SEAGATE ST9160821AS VENUS LF | KH.16001.026 |
| | | HDD 160GB 5400RPM SATA HGST HTS541616J9SA00 SURUGA-B LF | KH.16007.011 |
| | | HDD 160GB 5400RPM SATA WD WD1600BEVS-22RST0 ML80 LF | KH.16008.019 |
| Keyboard | | | |
| | | KEYBOARD 14_15KB-EV2 88KS BLACK US INTERNATIONAL (BIG ERGO) DARFON | KB.INT00.002 |
| | | KEYBOARD 14_15KB-EV2 88KS BLACK US INTERNATIONAL HEBREW (BIG ERGO) DARFON | KB.INT00.003 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK UK (BIG ERGO) DARFON | KB.INT00.004 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK TURKISH (BIG ERGO) DARFON | KB.INT00.005 |
| | | KEYBOARD 14_15KB-EV2 88KS BLACK THAILAND (BIG ERGO) DARFON | KB.INT00.006 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK SWISS/G (BIG ERGO) DARFON | KB.INT00.007 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK SWEDISH (BIG ERGO) DARFON | KB.INT00.008 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK SPANISH (BIG ERGO) DARFON | KB.INT00.009 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK SLOVENIAN (BIG ERGO) DARFON | KB.INT00.010 |
| | | KEYBOARD 14_15KB-EV2 88KS BLACK RUSSIAN (BIG ERGO) DARFON | KB.INT00.013 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK PORTUGUESE (BIG ERGO) DARFON | KB.INT00.014 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK NORWEGIAN (BIG ERGO) DARFON | KB.INT00.016 |

| Category | No. | Part Name and Description | Acer Part No. |
|---|-----|--|---------------|
| | | KEYBOARD 14_15KB-EV2 88KS BLACK KOREAN (BIG ERGO) DARFON | KB.INT00.018 |
| | | KEYBOARD 14_15KB-EV2 93KS BLACK JAPANESE (BIG ERGO) DARFON | KB.INT00.019 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK ITALIAN (BIG ERGO) DARFON | KB.INT00.020 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK HUNGARIAN (BIG ERGO) DARFON | KB.INT00.023 |
| | | KEYBOARD 14_15KB-EV2 88KS BLACK GREEK (BIG ERGO) DARFON | KB.INT00.024 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK GERMAN (BIG ERGO) DARFON | KB.INT00.025 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK FRENCH (BIG ERGO) DARFON | KB.INT00.026 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK DANISH (BIG ERGO) DARFON | KB.INT00.029 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK CZECH (BIG ERGO) DARFON | KB.INT00.030 |
| | | KEYBOARD 14_15KB-EV2 88KS BLACK TRADITIONAL CHINESE (BIG ERGO) DARFON | KB.INT00.031 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK CANADIAN (BIG ERGO) DARFON | KB.INT00.032 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK BRAZILIAN PORTUGUESE (BIG ERGO) DARFON | KB.INT00.033 |
| | | KEYBOARD 14_15KB-EV2 89KS BLACK BELGIUM (BIG ERGO) DARFON | KB.INT00.034 |
| | | KEYBOARD 14_15KB-EV2 88KS BLACK ARABIC/ENGLISH (BIG ERGO) DARFON | KB.INT00.035 |
| LCD Module | | | |
| | | LCD MODULE 15.4" WXGA NONE GLARE W/ ANTENNA & 0.3M CAMERA | 6M.TK101.001 |
|  | | LCD 15.4" WXGA AU B154EW02-V0 NONE GLARE | LK.15405.013 |
| | | LCD 15.4" WXGA LG LP154WX4- TLA2 NONE GLARE | LK.15408.027 |
| | | LCD MODULE 15.4" WXGA GLARE W/ ANTENNA & 0.3M CAMERA | 6M.TK101.002 |

| Category | No. | Part Name and Description | Acer Part No. |
|---|-----|---|---------------|
|  | | LCD 15.4" WXGA AU B154EW02-V1 GLARE | LK.15405.014 |
| | | LCD 15.4" WXGA LG LP154WX4- TLC2 GLARE | LK.15408.028 |
| Camera | | | |
| | | CAMERA CMOS 0.3M BISON BN30V4O717300 UVC | 57.TK501.001 |
| | | CAMERA CMOS 0.3M SUYIN CN0314-OV03 UVC | 57.TK901.001 |
| | | CAMERA COMOS 0.3M CHICONY CNF6041 UVC | 57.TKC01.001 |
| Communication Module | | | |
| | | WIRELESS ANTENNA RIGHT | 25.TK901.001 |
| | | WIRELESS ANTENNA LEFT | 25.TK901.002 |
| Microphone | | | |
| | | MICROPHONE CABLE | 23.TK901.003 |
| Main Board | | | |
| | | MAINBOARD TM5710 INTEL 945 PM ICH7M BCM578MKMLG LF W/ 1394 W/ MODEM & RTC BATTERY | MB.TK401.001 |
| | | MAINBOARD INTEL 943GML ICH7M NCM578MKMLG LF W/ 1394 W/ MODEM & RTC BATTERY | MBTK601.001 |
| PCMCIA Slot/PC Card Slot | | | |
| | | PCMCIA 4PIN SLOT CONN CARD BUS PX10AFR02PH-1 | 22.TK901.001 |
| Memory | | | |
|  | | SDIMM 1GB DDRII667 SAMSUNG M470T2953EZ3-CE6 | KN.1GB0B.011 |
| | | SDIMM 512MB DDRII667 NANYA NT512T64UH8B0FN-3C LF | KN.51203.032 |
| | | SDIMM 512MB DDRII667 SAMSUNG M470T6554EZ3-CE6 LF | KN.5120B.023 |
| | | SDIMM 512MB DDRII667 HYNIX HYMP564S64CP6-Y5AB LF | KN.5120G.019 |
| | | SDIMM 512MB DDRII667 PROMOS V916764B24QBFW-F5 LF | KN.5120M.004 |
| | | SDIMM 1GB DDRII667 NANYA NT1GT64U8HB0BN-3C LF | KN.1GB03.014 |
| | | SDIMM 1GB DDRII533 SAMSUNG M470T2953EZ3-CD5 LF | KN.1GB0B.012 |
| | | SDIMM 1GB DDRII667 HYNIX HYMP512S64CP8-Y5 LF | KN.1GB0G.006 |
| | | SDIMM 1GB DDRII667 PROMOS V916765G24QBFW-F5 | KN.1GB0M.001 |
| Miscellaneous | | | |
| | | LOGO PLATE FOR PANEL | 31.T49V1.001 |
| | | LOGO PLATE FOR BEZEL | 31.A46V1.001 |
| | | NAME PLATE TM5710 | 40.TKC01.001 |

| Category | No. | Part Name and Description | Acer Part No. |
|----------|-----|-----------------------------------|---------------|
| | | NAME PLATE TM5310 | 40.TK601.001 |
| | | LCD SCREW RUBBER | 47.TK501.001 |
| Screws | | | |
| | | SCREW M2 x L3 (WHITE) | 86.00C07.220 |
| | | SCREW M2.5 x L6 NYLOK CR3+ | 86.00E33.736 |
| | | SCREW M2.5 x L8 NYLOK CR3+ | 86.00E34.738 |
| | | SCREW M2.5 x 5 NI | 86.TK901.001 |
| | | SCREW MACH WAFER M3 x L4 NI | 886.9A524.4R0 |
| | | SCREW M2.5 x L5 BLACK ZN+NYLOK | 86.TK501.001 |
| | | SCREW DIMM COVER STEEL | 86.00A02.140 |
| | | SCREW M2 x 4 WAFER NI | 86.9A552.4R0 |
| | | SCREW NI M2 x L6 | 86.9A552.6R0 |

Model Definition and Configuration

TravelMate 7720/7320 Series

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|---------------|-----|-------------|--------------|---|--------|-------------|-------------|--------|------------|--------|----------------|-----------|------------|
| AS5051ANW XMi | AAP | India | LX.AV30C.002 | AS5051AN WXMILINPUSIL1 UMAC 1*512/80/6L/5R/CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBI15 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051ANW XMi | AAP | Indonesia | LX.AV30C.003 | AS5051AN WXMILINPUSIN1 UMAC 1*512/80/6L/5R/CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBI15 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051ANW XMi | AAP | Malaysia | LX.AV30C.005 | AS5051AN WXMILINPUSMA2 UMAC 1*512/80/6L/5R/CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBI15 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051ANW XMi | AAP | Philippines | LX.AV30C.004 | AS5051AN WXMILINPUSPH1 UMAC 1*512/80/6L/5R/CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBI15 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051ANW XMi | AAP | Singapore | LX.AV30C.001 | AS5051AN WXMILINPUSSG1 UMAC 1*512/80/6L/5R/CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBI15 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051ANW XMi | AAP | Thailand | LX.AV30C.006 | AS5051AN WXMILINPUSTH2 UMAC 1*512/80/6L/5R/CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBI15 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051ANW XMi | AAP | Vietnam | LX.AV30C.007 | AS5051AN WXMILINPUSVN1 UMAC 1*512/80/6L/5R/CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBI15 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|-----|-------------------------------|----------------|---|---------|--------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | PA | USA/ Canada - Canadian French | LX.AV 30J.00 1 | AS5051AW XMi MCECF UMAC 2*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | PA | USA/ Canada - Canadian French | LX.AV 30J.00 2 | AS5051AW XMi MCEUS UMAC 2*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Australia/ New Zealand | LX.AV 305.00 1 | AS5051AW XMi XPHAU1 UMAC 1*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | PA | USA/ Canada | LX.AV 305.00 8 | AS5051AW XMi XPHEN1 UMAC 1*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | PA | ACLA-Spanish | LX.AV 305.01 0 | AS5051AW XMi XPHES1 UMAC 1*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | PA | USA/ Canada | LX.AV 305.00 9 | AS5051AW XMi XPHFR1 UMAC 1*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Indonesia | LX.AV 305.00 7 | AS5051AW XMi XPHIN1 UMAC 1*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Malaysia | LX.AV 305.00 3 | AS5051AW XMi XPHMA2 UMAC 1*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Philippines | LX.AV 305.00 2 | AS5051AW XMi XPHPH1 UMAC 1*512/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|-------|-----------------|---------------|--|---------|-------------|-------------|-------------|---------------|---------|----------------|-------------|------------|
| AS5051AWX Mi | AAP | Thailand | LX.AV 305.004 | AS5051AW XMi XPPTH2 UMAC 1*512/120/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Vietnam | LX.AV 305.005 | AS5051AW XMi XPHVN1 UMAC 1*512/120/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Singapore | LX.AV 305.006 | AS5051AW XMi XPHWSG2 1W UMAC 1*512/120/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | PA | ACLA-Portuguese | LX.AV 305.011 | AS5051AW XMi XPHXC1 UMAC 1*512/120/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | TWN | GCTWN | S2.AV 305.001 | AS5051AW XMi XPHTC1 UMAC 2*512/120/BT/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII6 | SO512 MBII6 | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | FOX_BRM_2.0 | N |
| AS5052WXM i | TWN | GCTWN | S2.AV 305.002 | AS5052WX Mi XPHTC1 UMAC 2*512/100/BT/6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGAG | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ATH54 13BG | FOX_BRM_2.0 | N |
| AS5055WXM i | TWN | GCTWN | S2.AV 305.003 | AS5055WX Mi XPHTC1 UMAC 2*1G/160/BT/6L/5R/ CB_bg_0.3 C_AN | ATTL60 | N14.1 WXGAG | SO1G BII5 | SO1G BII5 | N160 GB5.4 KS | NSM8 X | ABT_BRM4 318BG | FOX_BRM_2.0 | N |
| AS5051AWX Ci | China | Hong Kong | LX.AV 305.016 | AS5051AW XCi XPHHK9 UMAC 1*512/120/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | N | N120 GB5.4 K | NCB2 4X | ABT_ATH54 13BG | N | N |
| AS5051AWX Ci | China | China | LX.AV 305.015 | AS5051AW XCi XPHSC7 UMAC 1*512/120/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | N | N120 GB5.4 K | NCB2 4X | ABT_ATH54 13BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|-----|------------------------|----------------|--|---------|--------------|-------------|--------|--------------|--------|----------------|-------------|------------|
| AS5051AWX Mi | TWN | GCTWN | LX.AV 305.01 2 | AS5051AW XMi XPHTC1 UMAC 1*512/120/ BT/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | FOX_BRM_2.0 | N |
| AS5051AWX Mi | TWN | GCTWN | LX.AV 305.01 4 | AS5051AW XMi XPHTC1 UMAC 1*512/60/ BT/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ATH54 13BG | FOX_BRM_2.0 | N |
| AS5051AWX Mi | TWN | GCTWN | LX.AV 305.01 3 | AS5051AW XMi XPHTC1 UMAC 1*512/80/ BT/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | FOX_BRM_2.0 | N |
| AS5051AWX Mi | AAP | Australia/ New Zealand | LX.AV 30J.01 1 | AS5051AW XMi MCEAU1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Singapore | LX.AV 30J.01 2 | AS5051AW XMi MCESG1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | India | LX.AV 30J.01 3 | AS5051AW XMi MCEIL1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Indonesia | LX.AV 30J.01 4 | AS5051AW XMi MCEIN1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Philippines | LX.AV 30J.01 5 | AS5051AW XMi MCEPH1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | AAP | Malaysia | LX.AV 30J.01 6 | AS5051AW XMi MCEMA1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ATH54 13BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|-------------|-----|---------------------------|--------------|---|--------|------------|----------|--------|------------|-------|---------------|-----------|------------|
| AS5051AWXMi | AAP | Thailand | LX.AV30J.017 | AS5051AWXMi MCETH1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5051AWXMi | AAP | Vietnam | LX.AV30J.018 | AS5051AWXMi MCEVN1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5051AWXMi | AAP | Australia/ New Zealand | LX.AV306.002 | AS5051AWXMi XPPAU1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5052WXMi | AAP | Australia/ New Zealand | LX.AV30J.003 | AS5052WXMi MCEAU1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5052WXMi | AAP | India | LX.AV30J.005 | AS5052WXMi MCEIL1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5052WXMi | AAP | Indonesia | LX.AV30J.006 | AS5052WXMi MCEIN1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5052WXMi | AAP | Singapore | LX.AV30J.004 | AS5052WXMi MCESG1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5052WXMi | AAP | Philippines | LX.AV30J.007 | AS5052WXMi MCEPH1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5052WXMi | AAP | Malaysia | LX.AV30J.008 | AS5052WXMi MCEMA1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|----------------|-----|---------------------------|--------------|--|--------|--------------------|----------------|--------|--------------------|-----------|-----------------------|---------------------|------------|
| AS5052WXM i | AAP | Thailand | LX.AV30J.009 | AS5052WXM i MCETH1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ ATH54 13BG | N | N |
| AS5052WXM i | AAP | Vietnam | LX.AV30J.010 | AS5052WXM i MCEVN1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ ATH54 13BG | N | N |
| AS5052WXM i | AAP | Australia/ New Zealand | LX.AV306.001 | AS5052WXM i XPPAU1 UMAC 1*1G/120/ 6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ ATH54 13BG | N | N |
| AS5051ANW XM i | AAP | India | LX.AV30C.015 | AS5051AN WXM i LINPUSIL1 UMAC 1*256/60/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGA G | SO256 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ ATH54 13BG | N | N |
| AS5051ANW XM i | AAP | Vietnam | LX.AV30C.014 | AS5051AN WXM i LINPUSVN 1 UMAC 1*512/60/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ ATH54 13BG | N | N |
| AS5051ANW XM i | AAP | Thailand | LX.AV30C.016 | AS5051AN WXM i LINPUSTH 2 UMAC 1*512/80/ BT/6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGA G | SO512 MBII5 | N | N80G B5.4K | NSM8 X | ABT_ ATH54 13BG | FOX_ BRM_ 2.0 | N |
| AS5051ANW XM i | AAP | Singapore | LX.AV30C.008 | AS5051AN WXM i LINPUSSG 1 UMAC 1*512/60/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ ATH54 13BG | N | N |
| AS5051ANW XM i | AAP | India | LX.AV30C.009 | AS5051AN WXM i LINPUSIL1 UMAC 1*512/60/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ ATH54 13BG | N | N |
| AS5051ANW XM i | AAP | Indonesia | LX.AV30C.010 | AS5051AN WXM i LINPUSIN1 UMAC 1*512/60/ 6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ ATH54 13BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|---------------|------|-------------|--------------|---|--------|-------------|-------------|-------------|------------|-------|---------------|-------------|------------|
| AS5051ANW XMi | AAP | Philippines | LX.AV30C.011 | AS5051AN WXMi LINPUSPH1 UMAC 1*512/60/6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII5 | N | N60GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5051ANW XMi | AAP | Malaysia | LX.AV30C.012 | AS5051AN WXMi LINPUSMA2 UMAC 1*512/60/6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII5 | N | N60GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5051ANW XMi | AAP | Thailand | LX.AV30C.013 | AS5051AN WXMi LINPUSHT2 UMAC 1*512/60/6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII5 | N | N60GB5.4K | NSM8X | ABT_ATH5413BG | N | N |
| AS5052WXM i | AAP | Thailand | LX.AV30J.019 | AS5052WXM i MCETH1 UMAC 1*1G/120/BT/6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGAG | SO1GBII6 | N | N120GB5.4K | NSM8X | ABT_ATH5413BG | FOX_BRM_2.0 | N |
| AS5051AWX Mi | EMEA | Belgium | LX.AV30J.032 | AS5051AW XMi MCEBE6 UMAC 2*512/100/6L/5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | SO512 MBII6 | N100GB5.4K | NSM8X | ABT_BRM4318BG | N | N |
| AS5051AWX Mi | EMEA | Middle East | LX.AV30J.043 | AS5051AW XMi MCEAR1 UMAC 2*512/100/6L/5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | SO512 MBII6 | N100GB5.4K | NSM8X | ABT_BRM4318BG | N | N |
| AS5051AWX Mi | EMEA | Middle East | LX.AV30J.044 | AS5051AW XMi MCEAR2 UMAC 2*512/100/6L/5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | SO512 MBII6 | N100GB5.4K | NSM8X | ABT_BRM4318BG | N | N |
| AS5051AWX Mi | EMEA | Italy | LX.AV30J.040 | AS5051AW XMi MCEIT7 UMAC 2*512/100/6L/5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | SO512 MBII6 | N100GB5.4K | NSM8X | ABT_BRM4318BG | N | N |
| AS5051AWX Mi | EMEA | Spain | LX.AV30J.039 | AS5051AW XMi MCEESJ UMAC 2*512/100/6L/5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | SO512 MBII6 | N100GB5.4K | NSM8X | ABT_BRM4318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|----------------|---------------|---|---------|------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 30J.030 | AS5051AW XMi MCECS5 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Denmark | LX.AV 30J.024 | AS5051AW XMi MCEDK6 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | France | LX.AV 30J.025 | AS5051AW XMi MCEFRF UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Germany | LX.AV 30J.027 | AS5051AW XMi MCEDEA UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Germany | LX.AV 30J.028 | AS5051AW XMi MCEDEB UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Holland | LX.AV 30J.033 | AS5051AW XMi MCENL6 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Norway | LX.AV 30J.034 | AS5051AW XMi MCENO5 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Russia | LX.AV 30J.035 | AS5051AW XMi MCERU9 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 30J.036 | AS5051AW XMi MCEPL7 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|------------------|---------------|--|---------|------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Slovenia/Croatia | LX.AV 30J.037 | AS5051AW XMi MCESI1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Portugal | LX.AV 30J.038 | AS5051AW XMi MCEPT6 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Sweden/Finland | LX.AV 30J.029 | AS5051AW XMi MCEV5 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Turkey | LX.AV 30J.041 | AS5051AW XMi MCETR5 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Switzerland | LX.AV 30J.045 | AS5051AW XMi MCEW8 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 30J.046 | AS5051AW XMi MCEUK5 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 30J.047 | AS5051AW XMi MCEWUK1 1W UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Italy | LX.AV 30J.042 | AS5051AW XMi MCEWIT11 W UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Germany | LX.AV 30J.031 | AS5051AW XMi MCEWDE1 1W UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|----------------|---------------|---|---------|------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | France | LX.AV 30J.026 | AS5051AW XMi MCEWFR1 1W UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Belgium | LX.AV 305.019 | AS5051AW XMi XPHBE1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Middle East | LX.AV 305.038 | AS5051AW XMi XPHAR1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 305.027 | AS5051AW XMi XPHCS2 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Germany | LX.AV 305.023 | AS5051AW XMi XPHDE7 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Greece | LX.AV 305.033 | AS5051AW XMi XPHEL1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Israel | LX.AV 305.034 | AS5051AW XMi XPHIS1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Italy | LX.AV 305.035 | AS5051AW XMi XPHIT1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Denmark | LX.AV 305.018 | AS5051AW XMi XPHDK1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|------------------|---------------|--|---------|------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Holland | LX.AV 305.020 | AS5051AWXMi XPHNL1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | France | LX.AV 305.021 | AS5051AWXMi XPHFRA UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 305.028 | AS5051AWXMi XPHHU6 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Spain | LX.AV 305.031 | AS5051AWXMi XPHESA UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Slovenia/Croatia | LX.AV 305.030 | AS5051AWXMi XPHSLO2 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 305.029 | AS5051AWXMi XPHPL6 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Portugal | LX.AV 305.032 | AS5051AWXMi XPHPT1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Switzerland | LX.AV 305.039 | AS5051AWXMi XPHSW5 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Turkey | LX.AV 305.036 | AS5051AWXMi XPHTR1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|----------------|------|--|--------------|---|--------|--------------------|----------------|----------------|--------------------|-----------|-----------------------|-----------|------------|
| AS5051AWXMi | EMEA | South Africa | LX.AV305.017 | AS5051AWXMi XPHSA1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | Norway | LX.AV305.024 | AS5051AWXMi XPHNO1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | Russia | LX.AV305.025 | AS5051AWXMi XPHRU2 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | Sweden/ Finland | LX.AV305.026 | AS5051AWXMi XPHSV1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | France | LX.AV305.022 | AS5051AWXMi XPHWFRB 1W UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | Italy | LX.AV305.037 | AS5051AWXMi XPHWIT21 W UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | UK | LX.AV305.040 | AS5051AWXMi XPHUK1 UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | UK | LX.AV305.041 | AS5051AWXMi XPHWUK2 1W UMAC 2*512/100/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | SO512 MBII6 | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5052WXM i | PA | USA/ Canada - Canadian French | LX.AV30J.020 | AS5052WXM Mi MCECF UMAC 2*512/120/6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGA G | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_ ATH54 13BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|---------------|------|------------------------------|---------------|--|--------|-------------|-------------|-------------|-------------|---------|----------------|-------------|----------------|
| AS5052WXM i | PA | USA/Canada - Canadian French | LX.AV 30J.021 | AS5052WXM i MCEUS UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN | ATTL50 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4K | NSM8X | ABT_ATH54 13BG | N | N |
| AS5052WXM i | PA | ACLA-Spanish | LX.AV 30J.022 | AS5052WXM i MCEES1 UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN | ATTL50 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4K | NSM8X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | PA | ACLA-Spanish | LX.AV 30J.048 | AS5051AWX Mi MCEES1 UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4K | NSM8X | ABT_BRM4 318BG | N | N |
| AS5051ANW XCi | AAP | Australia/New Zealand | LX.AV 30C.017 | AS5051ANW XCi LINPUSAU 1 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII5 | N | N80G B5.4K | NCB2 4X | ABT_BRM4 318BG | N | N |
| AS5051AWX Ci | AAP | Malaysia | LX.AV 305.042 | AS5051AWX Ci XPHMA2 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII5 | N | N80G B5.4K | NCB2 4X | ABT_BRM4 318BG | N | N |
| AS5051ANW XCi | AAP | Malaysia | LX.AV 30C.018 | AS5051ANW XCi LINPUSMA 2 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII5 | N | N80G B5.4K | NCB2 4X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Sweden/Finland | LX.AV 30J.049 | AS5051AWX Mi MCEVS5 UMAC 1*512/100/BT/6L/5R/CB_bg_VP_0.3C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | N | N100 GB5.4K | NSM8X | ABT_BRM4 318BG | FOX_BRM_2.0 | BT VoIP PCMCIA |
| AS5051AWX Mi | EMEA | Slovenia/Croatia | LX.AV 30J.050 | AS5051AWX Mi MCEES1 UMAC 1*512/100/BT/6L/5R/CB_bg_VP_0.3C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | N | N100 GB5.4K | NSM8X | ABT_BRM4 318BG | FOX_BRM_2.0 | BT VoIP PCMCIA |
| AS5051AWX Mi | EMEA | Holland | LX.AV 30J.051 | AS5051AWX Mi MCENL6 UMAC 1*512/100/BT/6L/5R/CB_bg_VP_0.3C_AN | ATMK36 | N14.1 WXGAG | SO512 MBII6 | N | N100 GB5.4K | NSM8X | ABT_BRM4 318BG | FOX_BRM_2.0 | BT VoIP PCMCIA |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|----------------------|--------------|---|--------|--------------------|----------------|--------|--------------------|-----------|-----------------------|---------------------|--------------------------|
| AS5051AWXMi | EMEA | Russia | LX.AV30J.052 | AS5051AWXMi MCERU9 UMAC 1*512/100/ BT/6L/5R/ CB_bg_VP _0.3C_AN | ATMK36 | N14.1 WXGA G | SO512 MBII6 | N | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | BT VoIP PCMC IA |
| AS5051AWXMi | EMEA | Holland | LX.AV30J.054 | AS5051AWXMi MCENL6 UMAC 1*512/100/ BT/6L/ 5R_bg_VP _0.3C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | N | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | BT VoIP PCMC IA |
| AS5051AWXMi | EMEA | Russia | LX.AV305.043 | AS5051AWXMi XPHRU2 UMAC 1*512/100/ 6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | N | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWXMi | EMEA | Sweden/ Finland | LX.AV30J.055 | AS5051AWXMi MCESV5 UMAC 1*512/100/ BT/6L/ 5R_bg_VP _0.3C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | N | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | BT VoIP PCMC IA |
| AS5051AWXMi | EMEA | Slovenia/ Croatia | LX.AV30J.053 | AS5051AWXMi MCESI1 UMAC 1*512/100/ BT/6L/ 5R_bg_VP _0.3C_AN | ATMK36 | N14.1 WXGA | SO512 MBII6 | N | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | BT VoIP PCMC IA |
| AS5052NWXMi | AAP | Thailand | LX.AV30C.019 | AS5052NWXMi LINPUSH 2 UMAC 1*512/120/ BT/6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |
| AS5053WXMi | AAP | Thailand | LX.AV30J.056 | AS5053WXM i MCETH1 UMAC 1*1G/120/ BT/6L/5R/ CB_bg_0.3 C_AN | ATTL52 | N14.1 WXGA G | SO1G BII6 | N | N120 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |
| AS5051ANWXMi | EMEA | Middle East | LX.AV30C.022 | AS5051ANWXMi LINPUSAR 9 UMAC 1*512/60/ BT/6L/ 5R_bg_0.3 C_AN | ATMK36 | N14.1 WXGA | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |
| AS5051ANWXMi | EMEA | Middle East | LX.AV30C.024 | AS5051ANWXMi LINPUSAR 9 UMAC 1*512/60/ BT/6L/5R/ CB_bg_0.3 C_AN | ATMK36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|---------------|------|----------------|----------------|--|---------|--------------|-------------|-------------|--------------|--------|-----------------|---------------|-----------------|
| AS5051ANW XMi | EMEA | Middle East | LX.AV 30C.0 20 | AS5051AN WXM i LINPUSAR 7 UMAC 1*512/60/ BT/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |
| AS5051ANW XMi | EMEA | France | LX.AV 30C.0 21 | AS5051AN WXM i LINPUSFR A UMAC 1*512/60/ 6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051ANW XMi | EMEA | Russia | LX.AV 30C.0 23 | AS5051AN WXM i LINPUSRU 5 UMAC 1*512/60/ 6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Middle East | LX.AV 305.04 4 | AS5051AW XMi XPHAR8 UMAC 1*512/60/ BT/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 30J.05 7 | AS5051AW XMi MCEPL7 UMAC 1*512/100/ BT/6L/ 5R_bg_VP _0.3C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | N | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | BT VoIP PCMC IA |
| AS5051AWX Mi | EMEA | Russia | LX.AV 305.04 5 | AS5051AW XMi XPHRU1 UMAC 1*512/100/ BT/6L/ 5R_bg_VP _0.3C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | N | N100 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | BT VoIP PCMC IA |
| AS5052WXM i | TWN | GCTWN | LX.AV 30J.05 8 | AS5052WX Mi MCETC9 UMAC 1*512/120/ BT/6L/5R/ CB_bg_0.3 C_AN | ATTL5 0 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |
| AS5052WXM i | TWN | GCTWN | LX.AV 305.04 6 | AS5052WX Mi XPHTC1 UMAC 1*512/120/ BT/6L/5R/ CB_bg_0.3 C_AN | ATTL5 0 | N14.1 WXGA G | SO512 MBII5 | N | N120 GB5.4 K | NSM8 X | ABT_ ATH54 13BG | FOX_ BRM_ 2.0 | N |
| AS5051AWX Mi | EMEA | Switzerland | LX.AV 30J.05 9 | AS5051AW XMi MCESW8 UMAC 2*512/120/ BT/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_ BRM4 318BG | FOX_ BRM_ 2.0 | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|----------------|---------------|---|---------|-------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Switzerland | LX.AV 30J.060 | AS5051AW XMi MCESW8 UMAC 2*512/120/6L/5R/CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Portugal | LX.AV 30J.061 | AS5051AW XMi MCEPT6 UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Spain | LX.AV 30J.062 | AS5051AW XMi MCEESJ UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Germany | LX.AV 30J.064 | AS5051AW XMi MCEDEA UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Germany | LX.AV 30J.065 | AS5051AW XMi MCEDEB UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Middle East | LX.AV 30J.070 | AS5051AW XMi MCEAR1 UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Middle East | LX.AV 30J.084 | AS5051AW XMi MCEAR2 UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Belgium | LX.AV 30J.066 | AS5051AW XMi MCEBE6 UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 30J.079 | AS5051AW XMi MCECS5 UMAC 2*512/120/6L/5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGAG | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|------------------|---------------|--|---------|------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Holland | LX.AV 30J.069 | AS5051AW XMi MCENL6 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Italy | LX.AV 30J.071 | AS5051AW XMi MCEIT7 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Denmark | LX.AV 30J.074 | AS5051AW XMi MCEDK6 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | France | LX.AV 30J.063 | AS5051AW XMi MCEFRF UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Norway | LX.AV 30J.073 | AS5051AW XMi MCENO5 UMAC 1*512/80/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII6 | N | N80GB5.4K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Norway | LX.AV 30J.075 | AS5051AW XMi MCENO5 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Russia | LX.AV 30J.080 | AS5051AW XMi MCERU9 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Slovenia/Croatia | LX.AV 30J.085 | AS5051AW XMi MCES11 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Switzerland | LX.AV 30J.086 | AS5051AW XMi MCESW8 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|-----------------|---------------|---|---------|------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 30J.068 | AS5051AW XMi MCEPL7 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Sweden/ Finland | LX.AV 30J.067 | AS5051AW XMi MCESV5 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 30J.081 | AS5051AW XMi MCEUUK1 1U UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 30J.087 | AS5051AW XMi MCEUK5 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Turkey | LX.AV 30J.072 | AS5051AW XMi MCETR5 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Italy | LX.AV 30J.076 | AS5051AW XMi MCEWIT11 W UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 30J.088 | AS5051AW XMi MCEUK6 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | France | LX.AV 30J.077 | AS5051AW XMi MCEWFR1 1W UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Germany | LX.AV 30J.078 | AS5051AW XMi MCEWDE1 1W UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|----------------|---------------|---|---------|------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Germany | LX.AV 305.057 | AS5051AW XMi XPHDE7 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Middle East | LX.AV 305.061 | AS5051AW XMi XPHAR1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Denmark | LX.AV 305.047 | AS5051AW XMi XPHDK1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Belgium | LX.AV 305.056 | AS5051AW XMi XPHBE1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 305.052 | AS5051AW XMi XPHCS2 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 30J.083 | AS5051AW XMi MCEWUK1 1W UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 30J.082 | AS5051AW XMi MCEWUK2 1W UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 305.051 | AS5051AW XMi XPHHU6 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Spain | LX.AV 305.059 | AS5051AW XMi XPHESA UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|--------------|------|----------------|---------------|---|---------|--------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Greece | LX.AV 305.054 | AS5051AWXMi XPHL1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Israel | LX.AV 305.069 | AS5051AWXMi XPHIS1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | France | LX.AV 305.048 | AS5051AWXMi XPHFRA UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Italy | LX.AV 305.055 | AS5051AWXMi XPHIT1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Eastern Europe | LX.AV 305.053 | AS5051AWXMi XPHPL6 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Holland | LX.AV 305.067 | AS5051AWXMi XPHNL1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | AAP | Malaysia | LX.AV 305.066 | AS5051AWXMi XPHMA2 UMAC 1*512/80/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N80G B5.4K | NSM8 X | ABT_ATH54 13BG | N | N |
| AS5051AWX Mi | EMEA | Norway | LX.AV 305.058 | AS5051AWXMi XPHNO1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | South Africa | LX.AV 305.062 | AS5051AWXMi XPHSA1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|---------------|------|-------------------|---------------|---|---------|--------------|-------------|-------------|--------------|--------|----------------|-----------|------------|
| AS5051AWX Mi | EMEA | Russia | LX.AV 305.049 | AS5051AWXMi XPHRU2 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Sweden/ Finland | LX.AV 305.050 | AS5051AWXMi XPHSV1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Slovenia/ Croatia | LX.AV 305.063 | AS5051AWXMi XPHSLO2 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Portugal | LX.AV 305.068 | AS5051AWXMi XPHPT1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Switzerland | LX.AV 305.064 | AS5051AWXMi XPHSW5 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | UK | LX.AV 305.065 | AS5051AWXMi XPHUK1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Turkey | LX.AV 305.070 | AS5051AWXMi XPHTR1 UMAC 2*512/120/6L/ 5R_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA | SO512 MBII5 | SO512 MBII5 | N120 GB5.4 K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051ANW XMi | EMEA | Turkey | LX.AV 30C.025 | AS5051ANW XMi LINPUSTR1 UMAC 1*512/60/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_BRM4 318BG | N | N |
| AS5051AWX Mi | EMEA | Turkey | LX.AV 305.071 | AS5051AWXMi XPHTR1 UMAC 1*512/60/6L/5R/ CB_bg_0.3 C_AN | ATMK 36 | N14.1 WXGA G | SO512 MBII5 | N | N60G B5.4K | NSM8 X | ABT_BRM4 318BG | N | N |

| Model | RO | Country | Acer Part no | Description | CPU | LCD | DIMM 1 | DIMM 2 | HDD 1 (GB) | ODD | Wireless LAN | Bluetooth | VOIP Phone |
|-------------|-----|---------|--------------|---|--------|----------------|----------------|--------|------------|-------|---------------|-------------|------------|
| AS5052NWXMi | AAP | India | LX.AV30C.026 | AS5052N WXMi LINPUSIL1 UMAC 1*512/80/ BT/6L/5R/ CB_bg_0.3 C_AN | ATTL50 | N14.1 WXGAG | SO512 MBII5 | N | N80GB5.4K | NSM8X | ABT_ATH5413BG | FOX_BRM_2.0 | N |

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® XP Home, Windows® XP Pro environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the TravelMate 7720/7320 Series Compatibility Test Report released by the Acer Mobile System Testing Department.

Microsoft® Windows® Vista Environment Test

| Item | Device Name |
|----------------------|--|
| CRT Port Test | |
| CRT Monitor | Acer 211c 21", ViewSonic G220F, ViewSonic PF790 19", Sony TV Trinitron (S-Video) |
| LCD Monitor | Acer FP751 17" TFT LCD, Acer AL1521, Acer AL1721, ViewSonic VD201b, Westinghouse W37G, HP LP2065, HP S9500 |
| Projector | Dell 3300MP |
| USB Port Test | |
| USB Keyboard/Mouse | Microsoft Natural Keyboard Pro Dell USB Keyboard Logicool USB Mouse (OWCM-USB) Logitech USB Wheel Mouse Logitech First Wheel Mouse Dell by Logitech Dell Internet Navigator Keyboard Dell Smart Card Keyboard HP USB Optical Austin Mouse Belkin Miniglow Optical USB Mouse HP USB Optical Mouse (RB129AA) |
| USB Speaker/Joystick | Aiwa Multimedia Digital Speaker (SC-UC78) Logitech WingMan RumblePad (G-UA3) Peripheral Dolby Headphone 5.1 Channel Panasonic USB Speaker EAB-MPC57USB JS iFun USB Speaker |
| USB Storage Drive | Iomega USB Zip 250MB Fujitsu MO-1300 1.3 GB Transcend 80G HDD PQI 6-in-1 Flash Card Reader/Writer Plextor DVD+R/RW Galileo Mass Storage 2.5 Travel Kit (with 1394) LG DVD+R/RW Sony DVD+R/RW |
| USB Camera | Intel Easy PC Camera (A20953-001) Orange Micro USB 2.0 Web Cam |
| USB HUB and Others | A TEN UH-204 IOGEAR 4-Port Hub Corega CG-WLUSBST11 |
| USB Printer/Scanner | Canon Scanner D1250 (JP OS only) HP 450WBT Deskjet Printer HP 2400 Scanjet |
| USB Flash Drive | Sony Memory Key 128MB Sony Micro Vault Pro USD-5G IBM 128MB Memory Key IBM 512MB Memory Key Apacer The USB Flash Drive 256MB |
| USB HDD | Transcend 2.5" Portable 80GB Hard Disk |

| Item | Device Name |
|-------------------------|---|
| USB ODD | Logitech CDRW+DVDROM combo LG DVD+R/RW Sony DVD+R/RW |
| IR Test | |
| IR Printer | HP LaserJet 2200 using IR HP 450wbt deskjet |
| IR Mobile Phone | Sony Ericsson T60 Motorola V600 Nokia 6820 |
| 1394 Test | |
| 1394 Storage Drive | LG DVD+R/RW 16X Sony DVD+R/RW 16X Transcend 2.5" Portable 80GB Hard Disk |
| 1394 Camera | Sony DV-TRV10 |
| 1394 Hub | ATEN FireWire Expansion HUB 6-Port IEEE 1394 Hub (FH-600) |
| Access Point 802.11a | Intel Pro/Wireless 5000 NetGear 54Mbps 802.11a Access Point Model: HE 102 |
| Access Point 802.11b | Cisco Aironet 350 Cisco Aironet 1230 |
| Access Point 802.11g | D-Link Building Networks People WiFi Certified a/b/g Wireless 108AG |
| Access Point 802.11n | D-Link Rangebooster N 650 Router Wireless-108.11n Buffalo Air Station Wireless IEEE 802.11n/g/b (WZR-G144N) Belkin N1MIMO Wireless Router High Performance Wireless-802.11n |
| Bluetooth Test | |
| Bluetooth Device | Sony Ericsson Wireless Headset Sony Ericsson T610 X Bridge Bluetooth Access Point BT300 Epson Bluetooth Print Adapter HP Deskjet 450wbt AmbiCom Bluetooth Wireless CompactFlash Card with PC Card Adapter |
| PCMCIA Test | |
| LAN/Modem Card | TDK CardBus Ethernet 10/100 32-Bit CBE-10/100BTX |
| Storage Card | Hitachi Microdrive 4G Iomega Click! 40MB |
| 1394 Card | Buffalo 1394 Interface Cardbus (IFC-ILCB/DV) I-O Data 1394 Interface CardBus (CB1394/DVC) |
| USB2.0 Card | IBM EtherJet CardBus Adapter 10/100 Adaptec USB2 Connect IOGEAR Cardbus Card USB 2.0 |
| GPRS Card | Vodafone QL1ACC-21581 3G/GPRS card Sony Ericsson GC83 GPRS card Sony Ericsson GC89 GPRS card |
| ExpressCard Test | |
| Express Card | Abcom 5-in-1 Adapter ExpressCard Reader Abcom GigaLan ExpressCard Sunix ECF2400 2 Ports 1394A ExpressCard Sunix Serial ATA External SATAII ExpressCard IK KOUWELL IEEE 1394+USB 2.0 ExpressCard SIIG ExpressCard 11-in-1 R/W |

| Item | Device Name |
|---|---|
| Memory Card Test (SD/MS/MMC/SM/CF/Microdrive/XD) | |
| SD Card | Apacer 128/256MB Transcend 256MB SanDisk 256MB Apacer 2GB (150x Hi-Speed) KINGMAX 1GB (66x Hi-Speed) SanDisk 1GB RiDATA 4GB SD PRO Memory Card |
| MS Card | I-O DATA 64MB MS Apacer 128MB MS Sony 512 MS PRO Lexar 512MB MS PRO Lexar 1GB MS PRO SanDisk 1GB MS PRO Sony 2GB MS PRO Duo High Speed Sony 2GB MS PRO |
| MMC Card | SanDisk 32MB Transcend 64/128MB Apacer 128MB Transcend 256MB SanDisk RS-MMC 128MB PQI RS-MMC 256MB Transcend 512MB A-DATA Turbo 200X 2GB MMC Card |
| XD Card | Apacer 256/512MB SanDisk 2GB Olympus 512MB |

Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- User's manuals
- Training materials
- Bios updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveler's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.

A

AFLASH Utility 53
Antennas 101
Audio 35

B

Battery Pack 62
BIOS 30
 package 30
 password control 30
 ROM size 30
 ROM type 30
 vendor 30
 Version 30
BIOS Supports protocol 30
BIOS Utility 41–53
 Navigating 42
 Onboard Device Configuration 48
 Security 45, 47
 System Security 52
Board Layout
 Top View 125
brightness
 hotkeys 15

C

Cache
 controller 31
 size 31
caps lock
 on indicator 10
CardBus 36
computer
 on indicator 10
CPU 77
CPU Fan True Value Table 30

D

DIMM Module 68
Display 4
display
 hotkeys 15

E

Error Symptom-to-Spare Part Index 110
Euro 16
External CD-ROM Drive Check 106
External Module Disassembly
 Flowchart 61

F

Features 1
Flash Utility 53
fpc cable 99
FRU (Field Replaceable Unit) List 129

H

Hard disk 33
Hard Disk Drive Module 69
HDD 33
Heatsink Module 74
Hibernation mode
 hotkey 15
Hot Keys 13

I

Indicators 9
Intermittent Problems 123
internal mic and web camera 102
inverter board 99

J

Jumper and Connector Locations 125
 Top View 125

K

Keyboard 37, 80
Keyboard or Auxiliary Input Device Check 106

L

Launch Board 86
LCD Bezel 97

LCD Brackets 100
LCD Module Disassembly
 Flowchart 96
LCD with the Brackets 98
lower cover 64

M

Main Unit Disassembly
 Flowchart 73
Mainboard 90
media access
 on indicator 10
Memory Check 107
Middle Cover and Power Board 78
Model Definition 140
Modem Board 73

N

Notebook Manager
 hotkey 15
num lock
 on indicator 10

O

Online Support Information 167
optical drive module 70

P

Panel 5
 Bottom 9
 left 5
PC Card 9, 36
PCMCIA 36
Power System Check 107
 Battery Pack 109
 Power Adapter 108
Processor 30

S

sata connector 66
Screw List 60, 61, 73, 96
secondary hdd bracket 66
Speaker Module 93

speakers
 hotkey 15
System
 Block Diagram 4
System Check Procedures 106
System Memory 31
System Utilities 41

T

Test Compatible Components 163
Top 125
Touch Pad Board 87
touchpad
 hotkey 15
Touchpad Check 109
Troubleshooting 105

U

Undetermined Problems 124
USB Board 94
utility
 BIOS 41–53

V

Video 36

W

Windows 2000 Environment Test 164
WLAN Board 68