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This device is in compliance with the essential requirements and other relevant provisions of the R&TTE Directive 1999/5/EC.

This device will be sold in the following EEA countries: Austria, Italy, Belgium, Liechtenstein, Denmark, Luxembourg, Finland, Netherlands, France, Norway, Germany, Portugal, Greece, Spain, Iceland, Sweden, Ireland, United Kingdom, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Slovakia, Poland, Slovenia.

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This device has been tested to and conforms to the regulatory requirements of the European Union and has attained CE Marking. The CE Mark is a conformity marking consisting of the letters "CE". The CE Mark applies to products regulated by certain European health, safety and environmental protection legislation. The CE Mark is obligatory for products it applies to: the manufacturer affixes the marking in order to be allowed to sell his product in the European market.

This product conforms to the essential requirements of the R&TTE directive 1999/5/EC in order to attain CE Marking. A notified body has determined that this device has properly demonstrated that the requirements of the directive have been met and has issued a favorable certificate of expert opinion. As such the device will bear the notified body number 0560 after the CE mark.

The CE Marking is not a quality mark. Foremost, it refers to the safety rather than to the quality of a product. Secondly, CE Marking is mandatory for the product it applies to, whereas most quality markings are voluntary.

FCC Statement (Federal Communications Commission)

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the service representative or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

1. This device may not cause interference.

And

2. This device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

- 1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- 2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.



Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the manufacturer for compliance with the above standards could void your authority to operate the equipment.

If your purchase option includes both **Wireless LAN** and **3.75G** modules, then the appropriate antennas will be installed. Note that In order to comply with FCC RF exposure compliance requirements, the antenna must not be co-located or operate in conjunction with any other antenna or transmitter.

Important Notice - 3.75G/HSPA & Bluetooth/Wireless LAN Modules

In order to comply with FCC regulations you should NOT operate the 3.75G/HSPA module and the Bluetooth/Wireless LAN modules at the same time as this may disrupt radio frequency, and cause interference. When the 3.75G/HSPA module is powered on, make sure that the Bluetooth/Wireless LAN modules are powered off.

IMPORTANT SAFETY INSTRUCTIONS

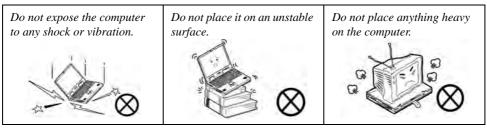
Follow basic safety precautions, including those listed below, to reduce the risk of fire, electric shock, and injury to persons when using any electrical equipment:

- 1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 2. Avoid using this equipment with a telephone line (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
- 3. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- 5. This product is intended to be supplied by a Listed Power Unit (Full Range AC/DC Adapter AC Input 100 240V, 50 60Hz, DC Output 19V, 1.58A).

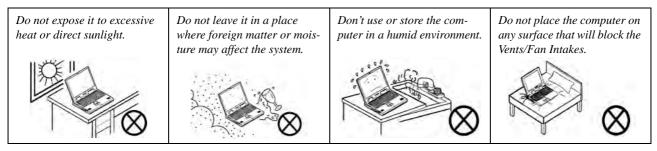
Instructions for Care and Operation

The notebook computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

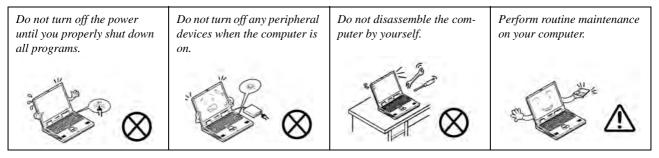
1. Don't drop it, or expose it to shock. If the computer falls, the case and the components could be damaged.



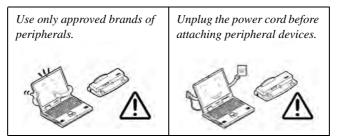
Keep it dry, and don't overheat it. Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.



- 3. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
- 4. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



5. Take care when using peripheral devices.



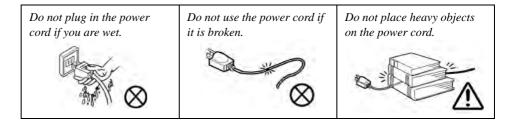
Power Safety

The computer has specific power requirements:

Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

- Only use a power adapter approved for use with this computer.
- Your AC/DC adapter may be designed for international travel but it still requires a steady, uninterrupted power supply. If you are unsure of your local power specifications, consult your service representative or local power company.
- The power adapter may have either a 2-prong or a 3-prong grounded plug. The third prong is an important safety feature; do not defeat its purpose. If you do not have access to a compatible outlet, have a qualified electrician install one.
- When you want to unplug the power cord, be sure to disconnect it by the plug head, not by its wire.
- Make sure the socket and any extension cord(s) you use can support the total current load of all the connected devices.
- Before cleaning the computer, make sure it is disconnected from any external power supplies (i.e. AC/DC adapter or car adapter).



Polymer Battery Precautions

Note the following information which is specific to polymer batteries only, and where applicable, this overrides the general battery precaution information overleaf.

- Polymer batteries may experience a slight expansion or swelling, however this is part of the battery's safety mechanism and is not a cause for concern.
- Use proper handling procedures when using polymer batteries. Do not use polymer batteries in high ambient temperature environments, and do not store unused batteries for extended periods.

See also the general battery precautionary information overleaf for further information.

Battery Precautions

- Only use batteries designed for this computer. The wrong battery type may explode, leak or damage the computer.
- Do not remove any batteries from the computer while it is powered on.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- If you do not use the battery for an extended period, then remove the battery from the computer for storage.
- Recharge the batteries using the notebook's system. Incorrect recharging may make the battery explode.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Keep children away from, and promptly dispose of a damaged battery. Always dispose of batteries carefully. Batteries may explode or leak if exposed to fire, or improperly handled or discarded.
- Keep the battery away from metal appliances.
- Affix tape to the battery contacts before disposing of the battery.
- Do not touch the battery contacts with your hands or metal objects.

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Battery Disposal & Caution

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

Cleaning

Do not apply cleaner directly to the computer; use a soft clean cloth. Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.

Servicing

Do not attempt to service the computer yourself. Doing so may violate your warranty and expose you and the computer to electric shock. Refer all servicing to authorized service personnel. Unplug the computer from the power supply. Then refer servicing to qualified service personnel under any of the following conditions:

- When the power cord or AC/DC adapter is damaged or frayed.
- If the computer has been exposed to rain or other liquids.
- If the computer does not work normally when you follow the operating instructions.
- If the computer has been dropped or damaged (do not touch the poisonous liquid if the LCD panel breaks).
- If there is an unusual odor, heat or smoke coming from your computer.

Removal Warning

When removing any cover(s) and screw(s) for the purposes of device upgrade, remember to replace the cover(s) and screw(s) before turning the computer on.

Travel Considerations

Packing

As you get ready for your trip, run through this list to make sure the system is ready to go:

- 1. Check that the battery pack and any spares are fully charged.
- 2. Power off the computer and peripherals.
- 3. Close the display panel and make sure it's latched.
- 4. Disconnect the AC/DC adapter and cables. Stow them in the carrying bag.
- 5. The AC/DC adapter uses voltages from 100 to 240 volts so you won't need a second voltage adapter. However, check with your travel agent to see if you need any socket adapters.
- 6. Put the notebook in its carrying bag and secure it with the bag's straps.
- 7. If you're taking any peripherals (e.g. a printer, mouse or digital camera), pack them and those devices' adapters and/or cables.
- 8. Anticipate customs Some jurisdictions may have import restrictions or require proof of ownership for both hardware and software. Make sure your documents are prepared.

کرلج Power Off Before Traveling

Make sure that your notebook is completely powered off before putting it into a travel bag (or any such container). Putting a notebook which is powered on in a travel bag may cause the vent(s)/fan intake(s)/outlet(s) to be blocked. To prevent your computer from overheating make sure nothing blocks the vent(s)/fan intake(s)/outlet(s) while the computer is in use.

On the Road

In addition to the general safety and maintenance suggestions in this preface, and Chapter 8: Troubleshooting, keep these points in mind:

Hand-carry the notebook - For security, don't let it out of your sight. In some areas, computer theft is very common. Don't check it with normal luggage. Baggage handlers may not be sufficiently careful. Avoid knocking the computer against hard objects.

Beware of Electromagnetic fields - Devices such as metal detectors & X-ray machines can damage the computer, hard disk, floppy disks, and other media. They may also destroy any stored data - Pass your computer and disks around the devices. Ask security officials to hand-inspect them (you may be asked to turn it on). **Note**: Some airports also scan luggage with these devices.

Fly safely - Most airlines have regulations about the use of computers and other electronic devices in flight. These restrictions are for your safety, follow them. If you stow the notebook in an overhead compartment, make sure it's secure. Contents may shift and/or fall out when the compartment is opened.

Get power where you can - If an electrical outlet is available, use the AC/DC adapter and keep your battery(ies) charged.

Keep it dry - If you move quickly from a cold to a warm location, water vapor can condense inside the computer. Wait a few minutes before turning it on so that any moisture can evaporate.

Developing Good Work Habits

Developing good work habits is important if you need to work in front of the computer for long periods of time. Improper work habits can result in discomfort or serious injury from repetitive strain to your hands, wrists or other joints. The following are some tips to reduce the strain:



- Adjust the height of the chair and/or desk so that the keyboard is at or slightly below the level of your elbow. Keep your forearms, wrists, and hands in a relaxed position.
- Your knees should be slightly higher than your hips. Place your feet flat on the floor or on a footrest if necessary.
- Use a chair with a back and adjust it to support your lower back comfortably.
- Sit straight so that your knees, hips and elbows form approximately 90-degree angles when you are working.
- Take periodic breaks if you are using the computer for long periods of time.

Remember to:



- Alter your posture frequently.
- Stretch and exercise your body several times a day.
- Take periodic breaks when you work at the computer for long periods of time. Frequent and short breaks are better than fewer and longer breaks.

Lighting

Proper lighting and comfortable display viewing angle can reduce eye strain and muscle fatigue in your neck and shoulders.

- Position the display to avoid glare or reflections from overhead lighting or outside sources of light.
- Keep the display screen clean and set the brightness and contrast to levels that allow you to see the screen clearly.
- Position the display directly in front of you at a comfortable viewing distance.
- Adjust the display-viewing angle to find the best position.

LCD Screen Care

To prevent **image persistence** on LCD monitors (caused by the continuous display of graphics on the screen for an extended period of time) take the following precautions:

- Set the Windows Power Plans to turn the screen off after a few minutes of screen idle time.
- Use a rotating, moving or blank screen saver (this prevents an image from being displayed too long).
- Rotate desktop background images every few days.
- Turn the monitor off when the system is not in use.

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Chapter 1: Quick Start Guide

Overview

This Quick Start Guide is a brief introduction to the basic features of your computer, to navigating around the computer and to getting your system started. The remainder of the manual covers the following:

- Chapter 2 A guide to using some of the main features of the computer e.g. the storage devices (hard disk, optical device, card reader), TouchPad & Mouse, Audio & Printer.
- Chapter 3 The computer's power saving options.
- Chapter 4 The installation of the **drivers** and utilities essential to the operation or improvement of some of the computer's subsystems.
- Chapter 5 An outline of the computer's built-in software or **BIOS** (Basic Input Output System).
- Chapter 6 Instructions for upgrading your computer.
- Chapter 7 A quick guide to the computer's Wireless LAN, PC Camera, 3.75G/HSPA and Bluetooth modules (some of which may be optional depending on your purchase configuration).
- Chapter 8 A troubleshooting guide.
- Appendix A Definitions of the interface, ports/jacks which allow your computer to communicate with external devices.
- Appendix B Information on the Intel Video driver controls.
- Appendix C The computer's specification.
- Appendix D Windows XP information.

Quick Start Guide

Advanced Users

If you are an advanced user you may skip over most of this Quick Start Guide. However you may find it useful to refer to "Driver Installation (WIN7)" on page 4 - 2/"Driver Installation (WINXP)" on page D - 28, "BIOS Utilities" on page 5 - 1 and "Upgrading The Computer" on page 6 - 1 in the reminder of the User's Manual. You may also find the notes marked with a \mathcal{P} of interest to you.

Beginners and Not-So-Advanced Users



Check the light colored boxes with the mark above to find detailed information about the computer's features.

If you are new to computers (or do not have an advanced knowledge of them) then the information contained in the Quick Start Guide should be enough to get you up and running. Eventually you should try to look through all the documentation (more detailed descriptions of the functions, setup and system controls are covered in the remainder of the User's Manual), but do not worry if you do not understand everything the first time. Keep this manual nearby and refer to it to learn as you go. You may find it useful to refer to the notes marked with a \mathscr{P} as indicated in the margin. For a more detailed description of any of the interface ports and jacks see "Interface (Ports & Jacks)" on page A - 1.

Warning Boxes

No matter what your level please pay careful attention to the warning and safety information indicated by the 2 symbol. Also please note the safety and handling instructions as indicated in the *Preface*.

Not Included

Operating Systems (e.g. *Windows 7*) and applications (e.g. word processing, spreadsheet and database programs) have their own manuals, so please consult the appropriate manuals.

Drivers

If you are installing new system software, or are re-configuring your computer for a different system, you will need to install the drivers listed in "Drivers & Utilities (WIN7)" on page 4 - 1. Drivers are programs which act as an interface between the computer and a hardware component e.g. a wireless network module. It is very important that you install the drivers in the order listed. You will be unable to use most advanced controls until the necessary drivers and utilities are properly installed. If your system hasn't been properly configured (your service representative may have already done that for you); refer to Chapter 4 for installation instructions.

You will need to attach an optical device drive to the computer in order to access the drivers on the **Device Drivers & Utilities + User's Manual** disc. This contains the drivers and utilities necessary for the proper operation of the computer.

Ports and Jacks

See "Notebook Ports and Jacks" on page A - 2 for a description of the interface (ports & jacks) which allow your computer to communicate with external devices, connect to the internet etc.

System Software

Your computer may already come with system software pre-installed. Where this is not the case, or where you are re-configuring your computer for a different system, you will find that this manual refers to the *Windows* 7 operating system version as indicated below.

| Operating System & Version | Note |
|----------------------------------|---|
| Windows 7(32-bit Version Only) | In order to run <i>Windows</i> 7 without limitations or decreased performance, your computer requires a minimum 1GB of system memory (RAM). |
| Windows XP (with Service Pack 3) | For information on <i>Windows XP</i> see Appendix D. |

Table 1 - 1 - Operating Systems Supported

Model Differences

This notebook series includes some model types that differ slightly in design style, and in particular the LCD back cover options (see *Appendix C* for full specification details). Note that your model's appearance may appear slightly different from those pictured throughout this manual.

System Startup

- 1. Remove all packing materials, and place the computer on a stable surface.
- 2. Securely attach any peripherals you want to use with the notebook (e.g. keyboard and mouse) to their ports.
- 3. Attach the AC/DC adapter to the DC-In jack on the left of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter.
- 4. Use one hand to carefully raise the lid/LCD to a comfortable viewing angle, while using the other hand (as illustrated in *Figure 1 1* below) to support the base of the computer (**Note**: **Never** lift the computer by the lid/LCD).
- 5. Press the power button to turn the computer "on".

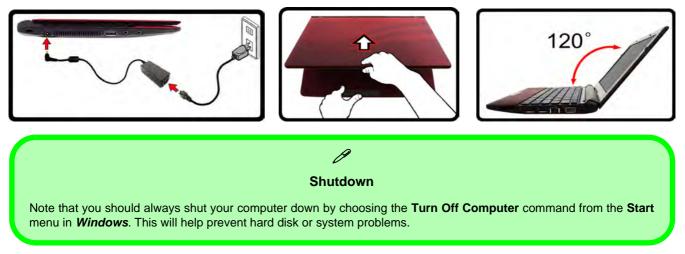


Figure 1 - 1 - Opening the Lid/LCD/Computer with AC/DC Adapter Plugged-In

Quick Start Guide

Figure 1 - 2 LCD Panel Open (Models A, B & C)

- 1. Built-In PC Camera
- 2. LCD
- 3. Keyboard
- 4. Built-In Microphone
- 5. Touchpad & Buttons

System Map: LCD Panel Open (Models A, B & C)



Wireless Device Operation Aboard

Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the key combinations to toggle power to the WLAN/ Bluetooth or 3.75G modules, and check the LED indicator icon to see if the modules are powered on or not (see Table 1 - 2, on page 1 - 9/ Table 1 - 3, on page 1 - 10).

System Map: LCD Panel Open (Model D)





Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the key combinations to toggle power to the WLAN/Bluetooth or 3.75G modules, and check the LED indicator icon to see if the modules are powered on or not (see Table 1 - 2, on page 1 - 9/ Table 1 - 3, on page 1 - 10).

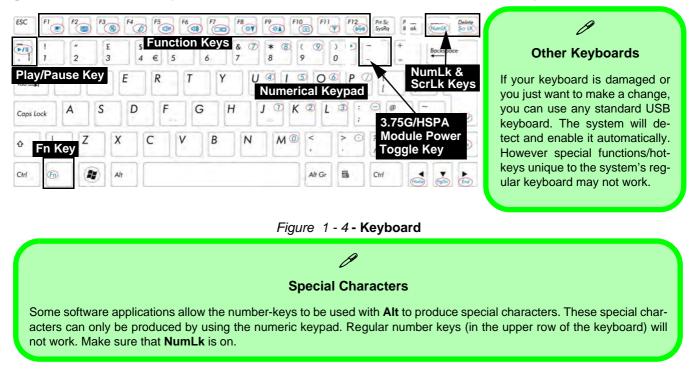
Figure 1 - 3 LCD Panel Open (Model D)

- 1. Built-In PC Camera
- 2. LCD
- 3. Power Button
- 4. Keyboard
- 5. Built-In Microphone
- 6. Touchpad & Buttons

Quick Start Guide

Keyboard

The keyboard has a numerical keypad for easy numeric data input, and features function keys to allow you to change operational features instantly. See *Table 1 - 2, on page 1 - 9* for details on the function keys.



Function/Hot Key Indicators

The function keys (F1 - F12 etc.) will act as hot keys when pressed while the **Fn** key is held down.

| Keys | Fu | inction | Keys | Function | |
|---|------------------------------|---|------------------|----------------------------------|---|
| Fn + ~ | Play/Pause (in) | Audio/Video Programs) | Fn + F7 | Display Toggle | |
| Fn + | 3.75G Module Power Toggle | | Fn + F8/F9 | Brightness Decrease/ Increase | |
| Fn + F1 | TouchPad Toggle | | Fn + F10 | PC Camera Power Toggle | |
| Fn + F2 | | D Backlight Off use TouchPad to turn on) | Fn + F11 | *WLAN Module Power Toggle | |
| Fn + F3 | Mute Toggle | | Fn + F12 | Bluetooth Module Power Toggle | |
| Fn + F4 | Fn + F4 Sleep Toggle | | Fn + NumLk | Number Lock Toggle | 8 |
| Fn + F5/F6 | Volume Decrease/ Increase | | Fn + ScrLk | Scroll Lock Toggle | |
| Make sure the Hot Key driver is installed - see "Hot Key" on page 4 - 6. *Make sure that Wireless is ON in the Windows Mobility Center to ensure proper wireless function key behavior (see page 3 - 12). | | Caps Lock | Caps Lock Toggle | | |

Table 1 - 2 - Function & Hot Key Indicators

Quick Start Guide

Figure 1 - 5 Front & Rear Views

- 1. LED Indicators
- 2. Battery

System Map: Front & Rear Views



2

LED Indicators

| Icon | Color | Description |
|---------|-----------------|---|
| ₽\0 | Orange | DC Power is Plugged In |
| | Green | The Computer is On |
| | Blinking Green | The Computer is in Sleep Mode |
| | Orange | The Battery is Charging |
| | Green | The Battery is Fully Charged |
| | Blinking Orange | The Battery Has Reached Critically Low Power Status |
| 8 | Green | Hard Disk Activity |
| ((***)) | Green | The (optional) Wireless LAN Module is Powered On |
| | Orange | The (optional) Bluetooth Module is Powered On |

Table 1 - 3 LED Indicators

1 - 10 System Map: Front & Rear Views

System Map: Left View



External Optical (CD/DVD) Device Drives

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To install applications and drivers etc. you will need to attach an external optical CD/DVD device to the USB ports.

Overheating

To prevent your computer from overheating make sure nothing blocks the vent(s)/fan intake(s) while the computer is in use.

Figure 1 - 6 Left View

- 1. Security Lock Slot
- 2. DC-In Jack
- 3. Vent/Fan Intake/ Outlet
- 4. USB 2.0 Port
- 5. Microphone-In Jack
- 6. Headphone-Out Jack

Quick Start Guide

Figure 1 - 7 **Right View**

- 1. Multi-In-1 Card Reader
- 2. 2 * USB 2.0 Ports
- 3. RJ-45 LAN Jack
- 4. External Monitor Port
- 5. Power Button (Models A, B & C Only)

System Map: Right View



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External Optical (CD/DVD) Device Drives

To install applications and drivers etc. you will need to attach an external optical CD/DVD device to the USB ports.

Multi-In-1 Card Reader

The card reader allows you to use the most popular digital storage card formats:

MMC (MultiMedia Card) / RS MMC SD (Secure Digital) / Mini SD / SDHC Compatible MS (Memory Stick) / MS Pro / MS Duo

Note: Some of these cards require PC adapters that are usually supplied with the cards.



Overheating

To prevent your computer from overheating make sure nothing blocks the vent(s)/fan intake(s) while the computer is in use.

System Map: Bottom View



Figure 1 - 8 Bottom View

- 1. Battery
- 2. Component Bay Cover
- 3. Vent/Fan Intake/ Outlet
- 4. Speakers

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3.75G/HSPA Module USIM Card

The 3.75G/HSPA module's USIM card location is located under the battery compartment. See page 1 - 14 for instructions on installing the 3.75G/HSPA USIM card.

Battery Information

Always completely discharge, then fully charge, a new battery before using it. Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges.

کن CPU

The CPU is not a user serviceable part. Opening this compartment, or accessing the CPU in any way, may violate your warranty.

Quick Start Guide

3.75G/HSPA Module USIM Card Installation

If you have included an optional 3.75G/HSPA module in your purchase option, follow the instructions below to install the USIM card (which will be provided by your service provider), and then run the **appropriate** application. See "*Mobile Partner*" *on page 7 - 17/"BandLuxe HSDPA Utility*" *on page 7 - 24* for instructions on installing the program etc.

- 1. Turn **off** the computer, and turn it over and then remove the battery (slide the latches in the direction indicated below and slide the battery out).
- 2. Insert the USIM card into the slot at the back of the battery compartment as illustrated below until it clicks fully into position, and replace the battery.

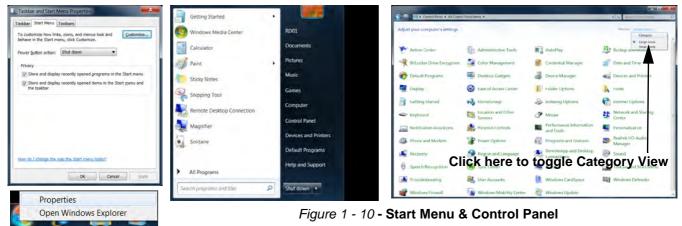


Figure 1 - 9 - Battery Removal & USIM Card Insertion

1 - 14 3.75G/HSPA Module USIM Card Installation

Windows 7 Start Menu & Control Panel

Most of the control panels, utilities and programs within *Windows 7* (For information on *Windows XP* see *Appendix D*) are accessed from the **Start** menu. When you install programs and utilities they will be installed on your hard disk drive, and a shortcut will usually be placed in the **Start** menu and/or the desktop. Right-click the **Start menu** icon , and then select **Properties** if you want to customize the appearance of the **Start** menu.



In many instances throughout this manual you will see an instruction to open the **Control Panel**. The **Control Panel** is accessed from the **Start** menu, and it allows you to configure the settings for most of the key features in *Windows* (e.g. power, video, network, audio etc.). *Windows* 7 provides basic controls for many of the features, however many new controls are added (or existing ones are enhanced) when you install the drivers. To see all controls it may be necessary to toggle off *Category View* to view the control panel icons.

Quick Start Guide

Video Features

You can configure display options from the **Display** (**Control Panel**) and **Screen Resolution** in *Windows*. For more detailed video information see *Chapter B*"*Intel Video Driver Controls*" *from page B* - 1.

To access Display (Control Panel) and Screen Resolution in Windows:

- 1. Click Start and click Control Panel.
- 2. Click Display (icon) In the Appearances and Personalization category.
- 3. Click Adjust Screen Resolution/Adjust resolution.

OR

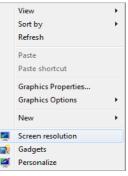
- 4. Alternatively you can right-click the desktop and select Screen resolution (see right).
- 5. Use the dropbox to select the screen **Resolution 1** (*Figure 1 11 on page 1 17*).
- 6. Click Advanced settings (2) (*Figure 1 11 on page 1 17*) to bring up the Advanced properties tabs.

To access the *Intel(R) Graphics Media Accelerator Driver for mobile* control panel:

- 1. Click Advanced settings (2) (*Figure 1 11 on page 1 17*) in the Screen Resolution control panel in *Windows*.
- 2. Click the Intel(R)... tab (3) (*Figure 1 11 on page 1 17*) and click Graphics Properties (button). OR
- 3. Right-click the desktop and select Graphics Properties from the menu.

OR

4. Click the icon in the taskbar and select **Graphics Properties** from the menu.



Screen Resolution & Intel GMA Control Panel

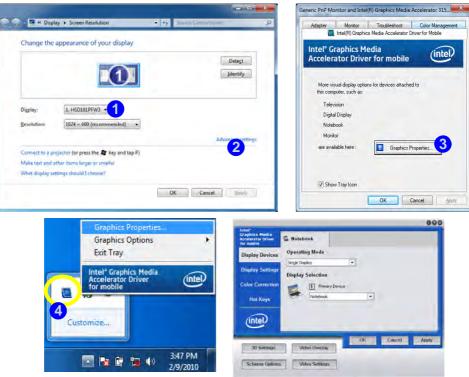


Figure 1 - 11 - Screen Resolution & Intel GMA Driver for Mobile Control Panel

Quick Start Guide

Power Options

The **Power Options** (**Hardware and Sound** menu) control panel icon in *Windows* (see page *1* - *15*) allows you to configure power management features for your computer. You can conserve power by means of **power plans** and configure the options for the **power button**, **sleep button**, **computer lid** (**when closed**), **display** and **sleep** mode from the left menu. Note that the **Power saver** plan may have an affect on computer performance.

Click to select one of the existing plans, or click *Create a power plan* in the left menu and select the options to create a new plan. Click *Change plan settings* and click *Change advanced power settings* to access further configuration options.

Pay attention to the instructions on battery care in "Battery Information" on page 3 - 11.

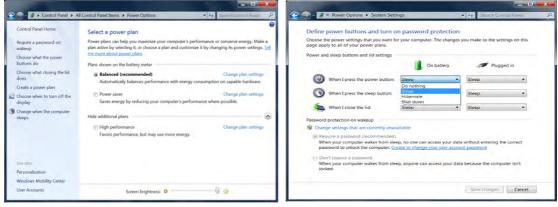


Figure 1 - 12 - Power Options

MOFA LCD Back Covers

MOFA (Magic of Film Art) technology allows fashionable and unique pictorial designs to be printed on the specially designed changeable LCD back covers. If your purchase option includes the specially designed changeable LCD back cover option, then follow the instructions in *"Changing the Optional LCD Back Covers" on page 6 - 12* to change the covers (**note these covers are not applicable to all models in this series** - consult your service center for details).



Figure 1 - 13 - Magic Of Film Art Optional LCD Back Covers



Quick Start Guide

Chapter 2: Features & Components

Overview

Read this chapter to learn more about the following main features and components of the computer:

- Hard Disk Drive
- External USB Optical (CD/DVD) Device
- Multi-In-1 Card Reader
- TouchPad and Buttons/Mouse
- Audio Features
- Adding a Printer

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Power Safety

Before attempting to access any of the internal components of your computer please ensure that the machine is not connected to the AC power, and that the machine is turned off. Also ensure that all peripheral cables, including phone lines, are disconnected from the computer.

Hard Disk Drive

The hard disk drive is used to store your data in the computer. The hard disk can be taken out to accommodate other 2.5" serial (SATA) HDDs with a height of 9.5 mm.

If you want to upgrade your computer by replacing the existing hard disk with a faster/new one you will need to contact your customer service representative. We recommend that you do not do this yourself, since if it is done incorrectly you may damage the computer and may violate your warranty.



If you are going to upgrade/replace the hard disk drive, note that It is recommended that HDDs of a **maximum speed of 5400 RPM are used**. **7200rpm or higher HDDs are not approved**.

External USB Optical (CD/DVD) Device

An external USB optical (CD/DVD) device is available as an **option** for this computer. The optical device may be used as a boot device if properly set in the **BIOS** (see *"Boot Menu" on page 5 - 12*).

Loading Discs

To insert a CD/DVD, simply slide the disc into the disc slot with label-side facing up. The busy indicator will light up while data is being accessed, or while a disc is playing. If power is unexpectedly interrupted, insert an object such as a straightened paper clip into the emergency eject hole to eject the disc.

DP USB Cables

You can connect the optional USB optical device using one of the USB cables. However if you are experiencing connection or power problems, connect both USB cables from the device to the computer.

External Optical (CD/DVD) Device Drives

To install applications and drivers etc. you will need to attach an external optical CD/DVD device to the USB ports. 2



CD Emergency Eject

If you need to manually eject a CD (e.g. due to an unexpected power interruption) you may push the end of a straightened paper clip into the emergency eject hole. However please do NOT use a sharpened pencil or similar object that may break and become lodged in the hole.

Disk Eject Warning

Don't try to remove a CD/DVD while the system is accessing it. This may cause the system to "crash".

Handling CDs or DVDs

Proper handling of your CDs/DVDs will prevent them from being damaged. Please follow the advice below to make sure that the data stored on your CDs/DVDs can be accessed.

Note the following:

- Hold the CD or DVD by the edges; do not touch the surface of the disc.
- Use a clean, soft, dry cloth to remove dust or fingerprints.
- Do not write on the surface with a pen.
- Do not attach paper or other materials to the surface of the disc.
- Do not store or place the CD or DVD in high-temperature areas.
- Do not use benzene, thinner, or other cleaners to clean the CD or DVD.
- Do not bend the CD or DVD.
- Do not drop or subject the CD or DVD to shock.

DVD Regional Codes

Go to the **Control Panel** and double-click **Device Manager (Hardware and Sound)**, then click the + next to **DVD/CD-ROM drives**. Double-click on the DVD-ROM device to bring up the **Properties** dialog box, and select the **DVD Region** (tab) to bring up the control panel to allow you to adjust the regional code.

DVD region detection is device dependent, not OS-dependent. You can select your module's region code **5** times. The fifth selection is permanent. This cannot be altered even if you change your operating system or you use the module in another computer.

| DVD Regional Coding | | | | | |
|---------------------|--|---|--|--|--|
| Region | Geographical Location | General DVD Region Volumes Driver, Details | | | |
| 1 | USA, Canada | Most DVDs are encoded for play in specific regions. To play a regionalized DVD on your computer, you must set your DVD drive to play docs from that region by selecting a geographic area from the following list. | | | |
| 2 | Western Europe, Japan, South Africa, Middle East & Egypt | CAUTION. You can change the region a limited number of times. After Changes remaining reaches zero, you cannot change the region ever Fyou reinstal Windows or move your DVD drive to a different computer. | | | |
| 3 | South-East Asia, Taiwan, South Korea, The Philippines, Indonesia, Hong Kong | Changes remaining: 5 To change the current region_select a geographic area, and then block C | | | |
| 4 | South & Central America, Mexico, Australia, New Zealand | United Arab Emattes United Arabian Dated States United States United States United States | | | |
| 5 | N Korea, Russia, Eastern Europe, India & Most of Africa | Vanuetu Vaticen Oly Current Region: Flict Selected | | | |
| 6 | China | Nex Regon: Fegon 1 | | | |

Table 2 - 1**DVD Regional Coding**



Card Reader Cover

Make sure you keep the rubber cover provided in the card reader when not in use. This will help prevent foreign objects and/or dust getting in to the card reader.

Figure 2 - 1 Right View

1. Card Reader

Multi-In-1 Card Reader

The card reader allows you to use some of the latest digital storage cards. Push the card into the slot and it will appear as a removable device, and can be accessed in the same way as your hard disk (s). Make sure you install the card reader driver (see *"Card Reader" on page 4 - 6*).

- MMC (MultiMedia Card) / RS MMC
- SD (Secure Digital) / Mini SD / SDHC
- MS (Memory Stick) / MS Pro / MS Duo

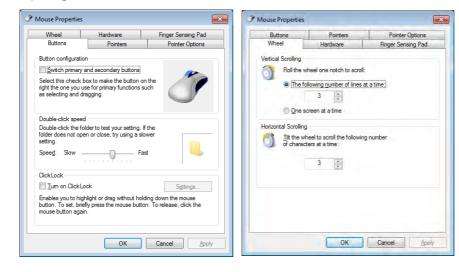
Note: Some of these cards require PC adapters that are usually supplied with the cards.



TouchPad and Buttons/Mouse

The TouchPad is an alternative to the mouse; however, you can also add a mouse to your computer through one of the USB ports. The TouchPad buttons function in much the same way as a two-button mouse.

Once you have installed the TouchPad driver (see "*TouchPad*" on page 4 - 6) you can configure the functions by double-clicking the TouchPad driver icon \blacksquare in the taskbar. You may then configure the buttons, pointers and finger-sensing pad options to your preferences.



CP TouchPad Scrolling

This computer model series may feature different TouchPad versions.

These TouchPads may differ in their vertical scrolling function in most scrollable windows.

Some TouchPads require sliding the finger up and down on the right of the TouchPad to scroll the window. Other versions require tapping/holding down the finger at the top right or bottom right of the TouchPad to scroll the window.

Figure 2 - 2 Mouse Properties 2



Mouse Driver

If you are using an external mouse your operating system may be able to auto-configure your mouse during its installation or only enable its basic functions. Be sure to check the device's user documentation for details.

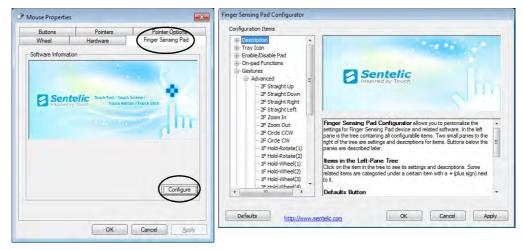
Figure 2 - 3 Finger Sensing Pad

Finger Sensing Pad Configurator

The **Finger Sensing Pad Configurator** allows you to use a configure the settings for the Finger Pad device and software. The left pane in the control panel contains all the configurable items, and you can click the "+" to expand the menu selections.

You can configure the settings from the Device Settings tab in Mouse Properties:

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Click Mouse (Hardware and Sound).
- 3. Click Finger Sensing Pad (tab) and click Configure.
- 4. Use the menu tree on the left to access the user configurable settings.



Gestures

Click **Gestures** and make sure that the **Enable Gestures** tickbox is clicked. Doubleclick **Gestures** and then double-click **Advanced** to open the submenu. You can configure any of the gestures from this submenu.

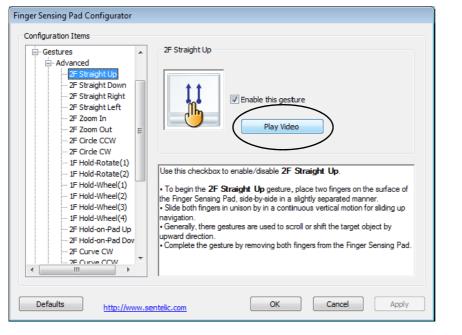




Figure 2 - 4 Finger Sensing Pad - Gestures (Advanced)

TouchPad and Buttons/Mouse 2 - 9

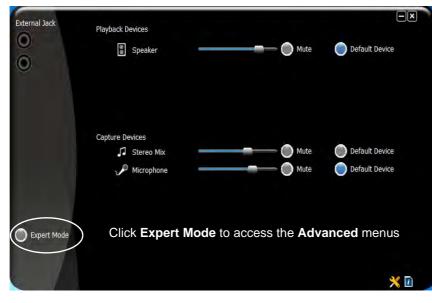
Audio Features

This computer will feature **one** of two possible audio systems depending on your purchase configuration. See the appropriate following pages for audio control panel information.

VIA HD Audio Deck

You can configure the audio options on your computer from the **Sound** or control panel in *Windows*, from the **HD VDeck** icon on the desktop or **VIA HD Audio Deck** control panel VIA HD Audio Deck.

The volume may also be adjusted by means of the Fn + F5/F6 key combination.



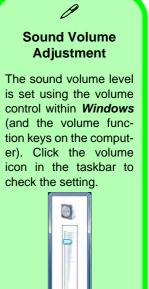


Figure 2 - 5 VIA HD Audio Deck

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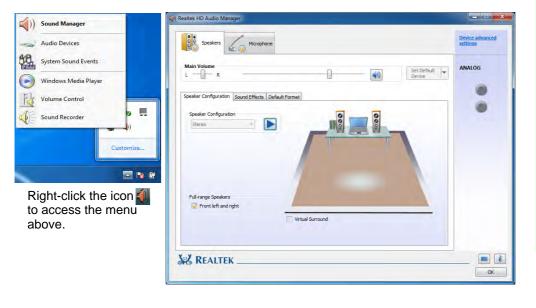
 $-\mathbf{x}$ External Jack Speaker 🎵 Stereo Mix Microphone 0 0 ·()* Volume Default Device K Mute 8 8 8 8 8 8 9 8 8 9 8 8 8 9 8 8 PC Beep ∢ Speaker Output Mute t Front ++++++ 1...0 ((---)) Expert Mode *

Expert Mode will allow you to access more advanced configuration menus.

Figure 2 - 6 VIA HD Audio Deck (Expert Mode)

Realtek HD Audio Manager

You can configure the audio options on your computer from the **Sound** O control panel in *Windows*, or from the **Realtek HD Audio Manager** O icon in the taskbar/ control panel (right-click the taskbar icon O to bring up an audio menu). The volume may also be adjusted by means of the **Fn** + **F5/F6** key combination.



Sound Volume Adjustment

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The sound volume level is set using the volume control within *Windows* (and the volume function keys on the computer). Click the volume icon in the taskbar to check the setting.



Figure 2 - 7 Realtek Audio Manager

Optimizing Audio Recording

Follow these instructions to optimize your audio recording.

- 1. Double-click the taskbar icon **a** to bring up the **Realtek HD Audio Manager**.
- 2. Click the Microphone tab.
- 3. Click the **Noise Suppression** button to prevent any background noise or feedback.
- 4. Click OK to close the Realtek HD Audio Manager.

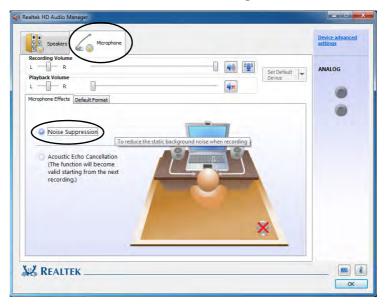


Figure 2 - 8 Optimizing Audio Recording

Adding a Printer

The most commonly used peripheral is a printer. The following conventions will help you to add a printer; however it is always best to refer to the printer manual for specific instructions and configuration options.

USB Printer

Most current printers have a USB interface connection. You may use any one of the ports to connect the printer.

Install Instructions:

- 1. Set up the printer according to its instructions (unpacking, paper tray, toner/ink cartridge etc.).
- 2. Turn ON the computer.
- 3. Turn ON the printer.
- 4. Connect the printer's USB cable to one of the USB ports on the computer.
- 5. *Windows* will identify the printer and either load one of its own drivers or ask you to supply one. Follow the on-screen instructions.

Parallel Printer

This is still a very common type of printer. The install instructions are in the sidebar, however you will need to purchase a parallel to USB converter.

Parallel Printer

After setting up the printer attach the parallel cable to the printer.

Connect the printer's parallel cable to the Parallel to USB converter, and then plug the converter into the USB port.

Turn ON the printer, then turn ON the computer.

Windows will identify the printer and either load one of its own drivers or ask you to supply one. Follow the on-screen instructions.

Overview 3 - 1

Chapter 3: Power Management

Overview

To conserve power, especially when using the battery, your computer power management conserves power by controlling individual components of the computer (the monitor and hard disk drive) or the whole system. This chapter covers:

- The Power Sources
- Turning On the Computer
- Power Plans
- Power-Saving States
- Configuring the Power Buttons
- Energy Star Power Saving
- Battery Information

The computer uses enhanced power saving techniques to give the operating system (OS) direct control over the power and thermal states of devices and processors. For example, this enables the OS to set devices into low-power states based on user settings and information from applications.

OS Note

Power management functions will vary slightly depending on your operating system. For more information it is best to refer to the user's manual of your operating system.

The Power Sources

The computer can be powered by either an AC/DC adapter or a battery pack.

AC/DC Adapter

Use only the AC/DC adapter that comes with your computer. The wrong type of AC/DC adapter will damage the computer and its components.

- 1. Attach the AC/DC adapter to the DC-in jack on the left of the computer.
- 2. Plug the AC power cord into an outlet, and then connect the AC power cord to the AC/DC adapter.
- 3. Raise the lid/LCD to a comfortable viewing angle.
- 4. Press the power button to turn "On".

Battery

The battery allows you to use your computer while you are on the road or when an electrical outlet is unavailable. Battery life varies depending on the applications and the configuration you're using. To increase battery life, let the battery discharge completely before recharging (see "How do I completely discharge the battery?" on page 3 - 15).

We recommend that you do not remove the battery. For more information on the battery, please refer to *"Resuming Operation" on page 3 - 9*.

Turning On the Computer

Now you are ready to begin using your computer. To turn it on simply press the power button on the front panel.

When the computer is on, you can use the power button as a Stand by/Hibernate/ Shutdown hot-key button when it is pressed for less than **4 seconds** (pressing and holding the power button for longer than this will shut the computer down). Use **Power Options** in the *Windows* control panel to configure this feature.



Forced Off

If the system "hangs", and the **Ctrl + Alt + Del** key combination doesn't work, press the power button for **4 seconds**, or longer, to force the system to turn itself off.

Power Button as Stand by or Hibernate Button

You can use the OS's "Power Options" control panel to set the power button to send the system into Stand by or Hibernate mode (see your OS's documentation, or "Configuring the Power Buttons" on page 3 - 8 for details).

Power Management

Resuming Operation

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See **Table 3 - 1**, **on page 3 - 9** for information on how to resume from a power-saving state.

Password

It is recommended that you enable a password on system resume in order to protect your data.

Figure 3 - 1 Power Plan Advanced Settings

Power Plans

The computer can be configured to conserve power by means of **power plans**. You can use (or modify) an existing **power plan**, or create a new one.

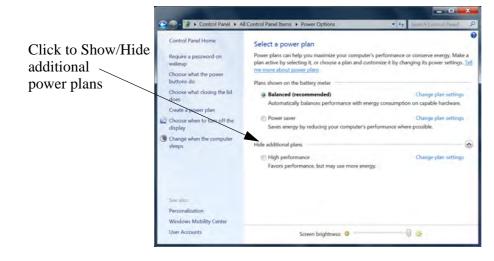
The settings may be adjusted to set the **display** to turn off after a specified time, and to send the computer into **Sleep** after a period of inactivity.

Click *Change plan settings* and then click *Change advanced power settings* to access further configuration options in **Advanced Settings**.

| Change settings for the Choose the sleep and display se | | your compi | ter to use. | Select the power plan that you want to custom then choose settings that reflect how you want |
|--|------------|------------|--------------------|--|
| | On bat | | Plugged in | computer to manage power. |
| O Dim the display: | 2 minutes | • | 5 minutes * | Balanced (Active) |
| Turn off the display: | 5 minutes | • | 10 minutes | ⊟ Balanced |
| Put the computer to sleep: | 15 minutes | • | 30 minutes 🔹 | E Require a password on wakeup |
| Adjust plan brightness: | • | - 4 | 0 0 ik | On battery Yes * Plugged in: Yes |
| | | | | Hard disk |
| Duringe advanced power setting | > | | | B Desktop background settings Wireless Adapter Settings |
| Bestore detault settings for this | plan | | | III Sleep |
| | | | Sive dunges Careel | USB settings Power buttons and lid |
| | | | | Bestore plan defa |

Each *Windows* **power plan** will also adjust the processor performance of your machine in order to save power. This is worth bearing in mind if you are experiencing any reduced performance (especially under DC/battery power).

Choose **High performance** (you may need to click **Show additional plans** to view the High performance plan) for maximum performance when the computer is powered from an AC power source. Choose the **Power saver** (bear in mind that this scheme may slow down the overall performance of the computer in order to save power) for maximum power saving when the computer is battery (DC power) powered.





Power-Saving States

You can use power-saving states to stop the computer's operation and restart where you left off. *Win* **7** uses the **Sleep, Hibernate** and **Shut Down** power-saving states.

Sleep

In **Sleep** all of your work, settings and preferences are saved to memory before the system sleeps. When you are not using your computer for a certain length of time, which you specify in the operating system, it will enter **Sleep** to save power.

The PC wakes from **Sleep within seconds** and will return you to where you last left off (what was on your desktop) without reopening the application(s) and file(s) you last used.

If your mobile PC in **Sleep** is running on battery power the system will use only a minimum amount of power. After an extended period the system will save all the information to the hard disk and shut the computer down before the battery becomes depleted.

Hibernate

Hibernate uses the least amount of power of all the power-saving states and saves all of your information on a part of the hard disk before it turns the system off. If a power failure occurs the system can restore your work from the hard disk; if a power failure occurs when work is saved only to memory, then the work will be lost. **Hibernate** will also return you to where you last left off within seconds. You should put your mobile PC into **Hibernate** if you will not use the computer for a period of time, and will not have the chance to charge the battery.

Shut down

You should **Shut down** the computer if you plan to install new hardware (don't forget to remove the battery and follow all the safety instructions in **Chapter 6**), plan to be away from the computer for several days, or you do not need it to wake up and run a scheduled task. Returning to full operation from **Shut down** takes longer than from **Sleep** or **Hibernate**.

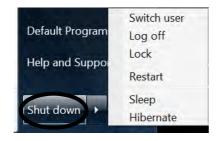


Figure 3 - 3 **Start Menu Power**

Power Management

Password Protection

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It is recommended that you enable a password on wake up in order to protect your data.

However you can disable this setting from the **Power Options** menu by clicking **Require a password on wakeup** in the left menu, and selecting the options (click **Change settings that are currently unavailable**).

> Figure 3 - 4 Power Options Define Power Buttons

Configuring the Power Buttons

The power/sleep button (Fn + F4 key combo) and closed lid may be set to send the computer in to a power-saving state. Click **Choose what the power buttons do** on the left menu in **Power Options** to bring up the menu.

| ings | 💌 🍂 🕴 Search Com | ial Panel |
|----------------------------------|---|---|
| n password protection | 1 | |
| or your computer. The change | s you make to the setti | ngs on this |
| | | |
| On battery | T Plugge | d in |
| Sleep | Sleep | + |
| Do nothing Sleep Hibernate | Sleep | + |
| Shut down Sleep | Sleep | - |
| | | |
| ailable | | |
| | | |
| | | correct |
| ep, anyone can access your da | ata because the compu | ter isn't |
| | Save changes | Cancel |
| | In password protection or your computer. The change I On battery Steep Do nothing Steep Hibernate Shut down Steep allable ep, no one can access your da | n password protection by your computer. The changes you make to the setting on battery Plugge Steep Do nothing Steep Hibernate Shut down Steep State down Steep State down Steep State down Steep State down Steep State down Steep State down Steep S |

Resuming Operation

You can resume operation from power-saving states by pressing the power button, or in some cases pressing the sleep button (Fn + F4 key combo).

| Power Status | lcon ⊉,/ປ Color | To Resume | |
|--------------------|------------------------|--|--|
| Power Off | Off | Press the Power Button | |
| Sleep | Blinking Green | Press the Power Button | |
| Sleep | Billiking Green | Press the Sleep Button (Fn + F4 Key Combo) | |
| Hibernate | Off (battery) | Press the Power Button | |
| Tibernate | Orange (AC/DC adapter) | | |
| Display Turned Off | Green | Press a Key or Move the Mouse/Touchpad | |
| | | | |

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Power Button

When the computer is on, you can use the power button as a Sleep/Hibernate/Shut Down hot key button when it is pressed for less than **4 seconds** (pressing and holding the power button for longer than this will force the computer to shut down).

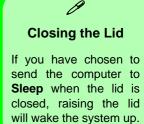


Table 3 - 1 Resuming Operation

3.75G/HSPA Modules & System Wake Up

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Note that the 3.75G modules **DO NOT** support system wake up on 3.75G/HSPA modem activity.

Configuring the Power Buttons 3 - 9

Power Management



If the taskbar icon does not appear then click the taskbar arrow and select Customize.



Select Show icon and notifications alongside the Hotkey icon and click OK. The 🌄 icon will now appear in the taskbar.

Figure 3 - 5 **Energy Star Menu**



This system supports **Energy Star** power management features that place computers (CPU, hard drive, etc.) into a low-power sleep modes after a designated period of inactivity. If you want to enable Energy Star power saving then follow these instructions:

- Right-click the taskbar icon 🌄 (see sidebar). 1.
 - Select Power Conservation Modes. Power Conservation Modes
- Select Energy Star to use the Energy Star power management and override other 3. power saving settings.





Taskbar Icon

2.

Battery Information

Follow these simple guidelines to get the best use out of your battery.

Battery Power

Your computer's battery power is dependent upon many factors, including the programs you are running, and peripheral devices attached. You can set actions to be taken (e.g. Shut down, Hibernate etc.), and set critical and low battery levels from power plan **Change plan settings > Change advanced power settings** (see *Figure 3 - 2 on page 3 - 5*).

Click the battery icon **1** in the taskbar to see the current battery level and charge status.



کے Low Batte

Low Battery Warning 3

When the battery is critically low, immediately connect the AC/DC adapter to the computer or save your work, otherwise, the unsaved data will be lost when the power is depleted.

> *Figure 3 - 6* Battery Icon

(Taskbar) & Battery Advanced Settings

Power Management

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Wireless Hot Keys

The computer's wireless function keys will not function properly if **Wireless** is turned **OFF** in the **Windows Mobility Center** control panel.

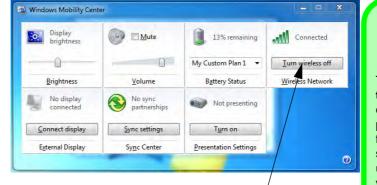
The wireless indicators may show that the WLAN module is powered on, however if wireless is OFF in the Mobility Center, the module will not be powered on.

Make sure that Wireless is **ON** in the Mobility Center to ensure proper function key behavior.

Figure 3 - 7 Windows Mobility Center

Conserving Battery Power

- Use a **power plan** that conserves power (e.g **Power saver**), however note that this may have an affect on computer performance.
- Lower the brightness level of the LCD display. The system will decrease LCD brightness slightly to save power when it is not powered by the AC/DC adapter.
- Reduce the amount of time before the display is turned off.
- Close wireless, Bluetooth, modem or communication applications when they are not being used.
- Disconnect/remove any unnecessary external devices e.g. USB devices, ExpressCards etc.



Make sure Wireless is ON to ensure proper function key behavior.

Windows Mobility Center

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The Windows Mobility Center control panel provides an easy point of access for information on battery status, power plans used and wireless device status etc.

Battery Life

Battery life may be shortened through improper maintenance. To optimize the life and improve its performance, fully discharge and recharge the battery at least once every 30 days.

We recommend that you do not remove the battery yourself. If you do need to remove the battery for any reason (e.g. long term storage) see "*Removing the Battery*" *on page 6 - 3*.

New Battery

Always completely discharge, then fully charge, a new battery (see "*Battery FAQ*" *on page 3 - 15* for instructions on how to do this).

Recharging the Battery with the AC/DC Adapter

The battery pack automatically recharges when the AC/DC adapter is attached and plugged into an electrical outlet. If the computer is powered on, and in use, it will take several hours to fully recharge the battery. When the computer is turned off but plugged into an electrical outlet, battery charge time is less. (Refer to "*LED Indicators*" on page 1 - 10 for information on the battery charge status, and to "*Resuming Operation*" on page 3 - 9 for more information on how to maintain and properly recharge the battery pack.)

Power Management

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Caution

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

Proper handling of the Battery Pack

- DO NOT disassemble the battery pack under any circumstances
- DO NOT expose the battery to fire or high temperatures, it may explode
- DO NOT connect the metal terminals (+, -) to each other

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Damaged Battery Warning

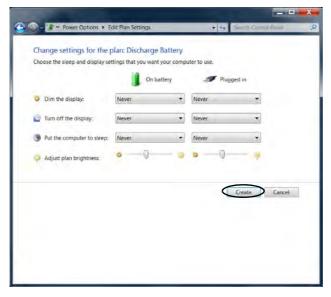
Should you notice any physical defects (e.g. the battery is bent out of shape after being dropped), or any unusual smells emanating from the notebook battery, shut your computer down immediately and contact your service center. If the battery has been dropped we do not recommend using it any further, as even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire. It is recommended that you replace your computer battery every two years.

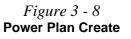
Battery FAQ

How do I completely discharge the battery?

Use the computer with battery power until it shuts down due to a low battery. Don't turn off the computer even if a message indicates the battery is critically low, just let the computer use up all of the battery power and shut down on its own.

- 1. Save and close all files and applications.
- 2. Create a power plan for discharging the battery and set all the options to Never.



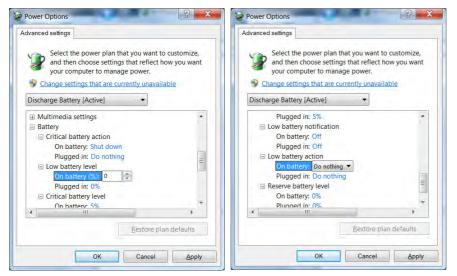


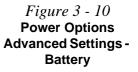
3. Click Change plan settings (after creating it) and click Change plan settings > Change advanced power settings.

Figure 3 - 9 Change Plan Settings / Change Advanced Power Settings

| All Control Panel I | Items • Power Options | | • • Sec | ch Cantrol Parel |
|---|--|--------------------------------|---------------------|---|
| Control Panel Home | Select a power p | alan | | |
| Require a password on wakeup | Power plans can help | you maximi | | performance or conserve |
| Choose what the power buttons do | changing its power se | | | a plan and customize it b er plans |
| Choose what closing the lid does | Plans shown on the b | | | - |
| Create a power plan | Discharge Batte | ery | | Change plan settings |
| Choose when to turn off the display | Power saver Saves energy br | y reducing y | our computer's perf | Change plan settings ormance where possible. |
| Change when the computer sleeps | Hide additional plan | 10000 | | |
| | Balanced (reco | | | Change plan settings |
| | | balances per | formance with ener | gy consumption on |
| | High performan | | y use more energy. | Change plan settings |
| | | | | |
| See also Personalization | | | | |
| Windows Mobility Center | | | | |
| | | | | |
| User Accounts | 100 Mar. | orightness: 1 | | |
| Change s | Rower Options • Lott Plan Settings ettings for the plan: Discharg leep and display settings that you wa | le Battery et your computer | • • | |
| Change st Change st Change st | Rower Options • East Run Settings ettings for the plan: Discharg leep and display settings that you wa | e Battery | | |
| Change to Change to Donte | Rever Options + East Run Settings ettings for the plan: Discharg leep and display entrops that you wa up on display: | le Battery et your computer | • • | |
| Change st Change st Change st | Rever Options + East Run Settings ettings for the plan: Discharg leep and display entrops that you wa up on display: | le Battery et your computer | • • | |
| 😥 👘 🚛 Ohange is Onine Dinne Safara | Rower Coticour + Linit Rain Sectionys etitiongs for the plan: Discharg leeps and discion years and one displan: the displan: Been oneyware to see | le Battery et your computer | • • | |
| Change is Obarge is Obare fer Obare Stand Attree | Rever Cystone + Los Pan Sectings ettings for the plan: Discharge beep led disarily vertings hat you we be disping: Never the disping: Never | le Battery et your computer | • • | |
| Change is Obers fer Obers Stand Read | Rever Option + Set Pain Settings entings for the plan: Discharge level and disclay vertings that you we will be a set of the plane of the display. Never the display. Never computer to Silery. Twiner | le Battery et your computer | • • | |
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| Change is Obers fer Obers Stand Antre Market | Rever Option + Set Pain Settings entings for the plan: Discharge level and disclay vertings that you we will be a set of the plane of the display. Never the display. Never computer to Silery. Twiner | le Battery et your computer | • • | 2 |
| Change is Obarge is Obare fer Obare Stand Attree | Rever Option + Set Pain Settings entings for the plan: Discharge level and disclay vertings that you we will be a set of the plane of the display. Never the display. Never computer to Silery. Twiner | le Battery et your computer | • • | 2 |
| Change is Obers fer Obers Stand Read | Rever Option + Set Pain Settings entings for the plan: Discharge level and disclay vertings that you we will be a set of the plane of the display. Never the display. Never computer to Silery. Twiner | le Battery et your computer | • • | 2 |

- 4. Scroll down to **Battery** and click + to expand the battery options.
- 5. Choose the options below (click **Yes** if a warning appears):





- Low battery levels = 0%
- Critical battery Levels = 1%
- Low battery action = Do Nothing
- Critical battery action (On battery) = Shut Down
- Critical battery action (Plugged in) = Do Nothing

Power Management

How do I fully charge the battery?

When charging the battery, don't stop until the LED charging indicator light changes from orange to green.

How do I maintain the battery?

Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges.

Chapter 4: Drivers & Utilities (WIN7)

This chapter deals with installing the drivers and utilities essential to the operation or improvement of some of the computer's subsystems. The system takes advantage of some newer hardware components for which the latest versions of most available operating systems haven't built in drivers and utilities. Thus, some of the system components won't be auto-configured with an appropriate driver or utility during operating system installation. Instead, you need to manually install some system-required drivers and utilities.

For information on Drivers & Utilities for the *Win*dows XP OS see "Driver Installation (WINXP)" on page D - 28.

What to Install

You will need to attach an optical device drive to the computer in order to access the drivers on the *Device Drivers & Utilities + User's Manual* disc. This contains the drivers and utilities necessary for the proper operation of the computer.

Table 4 - 1, on page 4 - 3 lists what you need to install and it is very important that the drivers are installed in the order indicated.

Module Driver Installation

The procedures for installing drivers for the Wireless LAN, PC Camera, 3.75G/HSPA and Bluetooth Combo modules are provided in "*Modules & Options*" on page 7 - 1.

Make sure any modules (e.g. WLAN, PC Camera, 3.75G/HSPA or Bluetooth Combo) are **ON** before installing the appropriate driver.

Drivers & Utilities (WIN7)

Driver Installation (WIN7)

Insert the *Device Drivers & Utilities + User's Manual* disc into an attached optical drive and click *Install Drivers/Option Drivers* (button).

Follow the instructions to install the driver. Alternatively click **Start**, navigate (**Browse.**) to the executable file and then follow the manual setup instructions.



Figure 4 - 1 - Drivers Installer Screen 1

- Check the driver installation order from *Table 4 1*, on page 4 - 3 (the drivers must be installed in this order) which is the same as that listed in the *Drivers Installer* menu below.
- 2. Click to select the driver you wish to install, (you should note down the drivers as you install them).
- 3. Follow the instructions for each individual driver installation procedure as listed on the following pages.

Note: If you need to reinstall any driver, you should uninstall the driver first.



Figure 4 - 2 - Drivers Installer Screen 2

| | Manual Driver Installation |
|------------|---|
| Page # | Click Browse CD/DVD (button) in the Drivers Install- |
| Page 4 - 5 | <i>er</i> application and browse to the executable file in the appropriate driver folder. |
| Page 4 - 5 | |
| Page 4 - 5 | Windows Update After installing all the drivers make sure you enable |
| Page 4 - 6 | Windows Update in order to get all the latest security |
| Page 4 - 6 | updates etc. (all updates will include the latest hotfixes |

lrivers make sure you enable ler to get all the latest security updates etc. (all updates will include the latest hotfixes from Microsoft). See "Windows 7 Update" on page 4 - 7 for instructions.

Drivers & Utilities (WIN7)

| Bluetooth Module (Driver for Combo Module Only) | Page 7 - 43 |
|---|-------------|
| | |

Driver - Windows 7

Chipset

LAN

Video (VGA)

Card Reader

Wireless LAN Module

PC Camera Module

3.75G/HSPA Module

TouchPad

Hot Key

Audio

Table 4 - 1 - Driver Installation

Page 4 - 6

Page 4 - 6

Page 7 - 2

Page 7 - 8

Page 7 - 17

Drivers & Utilities (WIN7)

Updating/Reinstalling Individual Drivers

If you wish to update/reinstall individual drivers it may be necessary to uninstall the original driver. To do this go to the **Control Panel** in the *Windows OS* and double-click the **Programs and Features** icon (**Programs > Uninstall a program**). Click to select the driver (if it is not listed see below) and click **Uninstall**, and then follow the on screen prompts (it may be necessary to restart the computer). Reinstall the driver as outlined in this chapter.

If the driver is not listed in the **Programs and Fea**tures menu:

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Double-click **Device Manager** (Hardware and **Sound > Device Manager**).
- 3. Double-click the **device** you wish to update/reinstall the driver for (you may need to click "+" to expand the selection).
- 4. Click **Driver** (tab) and click the **Update Driver** or **Uninstall** button and follow the on screen prompts.

User Account Control

If a **User Account Control** prompt appears as part of the driver installation procedure, click **Continue** or **Allow**, and follow the installation procedure as directed.

Windows Security Message

If you receive a *Windows* security message as part of the driver installation process. Just click "*Install this driver software anyway*" or "*Install*" to continue the installation procedure.

You will receive this message in cases where the driver has been released after the version of *Windows* you are currently using. All the drivers provided will have already received certification for *Windows*.

New Hardware Found

If you see the message "**New Hardware Found**" during the installation procedure (**other than when outlined in the driver install procedure**), click **Cancel** to close the window, and follow the installation procedure.



The driver installation procedure outlined in this Chapter (and in **Chapter 7 Options & Modules**), are accurate at the time of going to press.

Drivers are always subject to upgrade and revision so the exact procedure for certain drivers may differ slightly. As a general guide follow the default on screen instructions for each driver (e.g. **Next > Next > Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

Make sure any modules (e.g. PC Camera, WLAN or 3.75G/HSPA) are \mathbf{ON} before installing the appropriate driver.

Driver Installation Procedure

Insert the *Device Drivers & Utilities + User's Manual* disc into your attached CD/DVD drive and click *Install Drivers* (button).

Chipset

- 1. Click **1.Install Chipset Driver > Yes**.
- 2. Click **Next > Yes > Next > Next**.
- 3. Click **Finish** to restart the computer.

Video (VGA)

- 1. Click **2.Install VGA Driver > Yes**.
- 2. Click **Next > Yes > Next > Next**.
- 3. Click **Finish** to restart the computer.

LAN

- 1. Click **3.Install LAN Driver > Yes**.
- 2. Click **Install > Finish** to complete the installation.
- 3. The network settings can now be configured.

Drivers & Utilities (WIN7)

Card Reader

- 1. Click 4.Install Cardreader Driver > Yes.
- 2. Click **Install > Finish** to complete the installation.

TouchPad

- 1. Click **5.Install Touchpad Driver > Yes**.
- 2. Select the installation language and click **OK**.
- 3. Click Next.
- 4. Click **Finish > Restart Now** to restart the computer.

Hot Key

- 1. Click **6.Install HotKey AP** > **Yes**.
- 2. Click **Next > Next**.
- 3. Click **Finish > Finish** to restart the computer.

Audio

- 1. Click **7.Install Audio Driver > Yes**.
- 2. Click Next.
- 3. Click the button to agree to the license and click **Next**.
- 4. Click **Next > Next > Next**.
- 5. Click **Finish** to restart the computer.

(See Over)

Note that after installing the audio driver the system will not return to the *Drivers Installer* screen. To install any of the optional drivers listed overleaf, eject the *Device Drivers & Utilities + User's Manual* disc and then reinsert it (or double-click the disc icon in **My Computer**), and click *Option Drivers* (button) to access the optional driver menu.

Windows Experience Index

After the drivers are installed follow this procedure to ensure an accurate rating from the *Windows Experience Index*:

- 1. Click Start, and click Control Panel.
- 2. Click Performance Information and Tools (System and Security > System > Check the Windows Experience Index).
- 3. Click "Rate this computer".
- 4. The computer will take a few minutes to assess the system performance.
- 5. Close the control panel.

Windows 7 Update

After installing all the drivers make sure you enable **Windows Update** in order to get all the latest security updates etc. (all updates will include the latest **hotfixes** from Microsoft).

To enable Windows Update make sure you are connected to the internet:

- 1. Click **Start**, and click **Control Panel** (or point to **Settings** and click **Control Panel**).
- 2. Click Windows Update (System and Security).
- 3. Click Check for updates (button).
- 4. The computer will now check for updates (you need to be connected to the internet).
- 5. Click **Install now** (button) to begin checking for the updates.
- 6. Click **Install updates** (button) to install the updates.

Drivers & Utilities (WIN7)

Optional Drivers

See the pages indicated overleaf for the driver installation procedures for any modules included in your purchase option.





Figure 4 - 3 - Drivers Installer - Option Drivers Menu

Make sure any modules (e.g. WLAN, PC Camera, 3.75G/HSPA or Bluetooth) are ON before installing the appropriate driver.

Wireless LAN Module

See the introduction in "Wireless LAN Module" on *page* 7 - 2, and check the installation procedure.

PC Camera Module

See the introduction in "PC Camera Module" on page 7 - 8, and check the installation procedure.

3.75G/HSPA Module

See the introduction in "3.75G/HSPA Module" on page 7 - 15, and check the installation procedure.

Bluetooth Module

A driver is only required for the Combination Wireless LAN & V3.0 Bluetooth. See "Bluetooth Combo Driver Installation" on page 7 - 62.

The operating system is the default setting for **Blue**tooth control for the standard V2.0 Bluetooth module in *Windows* 7 and does not require a driver. See "Bluetooth Module" on page 7 - 43 for configuration instructions

Chapter 5: BIOS Utilities

Overview

This chapter gives a brief introduction to the computer's built-in software:

Diagnostics: The POST (Power-On Self Test)

Configuration: The Phoenix SecureCore Setup Utility

If your computer has never been set up, or you are making important changes to the system (e.g. hard disk setup), then you should review this chapter first and note the original settings found in *Setup*. Even if you are a beginner, keep a record of the settings you find and any changes you make. This information could be useful if your system ever needs servicing.

There is one general rule: *Don't make any changes unless you are sure of what you are doing*. Many of the settings are required by the system, and changing them could cause it to become unstable or worse. If you have any doubts, consult your service representative.

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BIOS Screens

Note that the BIOS screens pictured on these pages are intended for guidance in setting up your system's BIOS.

BIOS versions are subject to constant change and revision, therefore your computer's actual screens may appear slightly different from those pictured on these pages.

POST Screen

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 BIOS information
 CPU type
 Memory status
 Enter Setup prompt appears only during POST

Note: The POST screen as pictured right is for guideline purposes only. The POST screen on your computer may appear slightly different. If you disable the Boottime Diagnostic Screen, the POST screen will not appear.

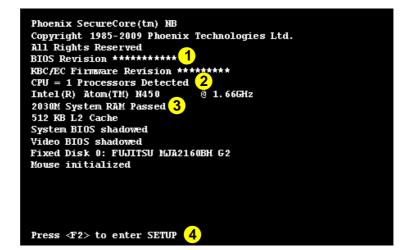
> *Figure 5 - 1* **POST Screen**

The Power-On Self Test (POST)

Each time you turn on the computer, the system takes a few seconds to conduct a **POST**, including a quick test of the on-board RAM (memory).

As the **POST** proceeds, the computer will tell you if there is anything wrong. If there is a problem that prevents the system from booting, it will display a system summary and prompt you to run *Setup*.

If there are no problems, the *Setup* prompt will disappear and the system will load the operating system. Once that starts, you can't get into *Setup* without rebooting.



Failing the POST

Errors can be detected during the **POST**. There are two categories, "fatal" and "non-fatal".

Fatal Errors

These stop the boot process and usually indicate there is something seriously wrong with your system. Take the computer to your service representative or authorized service center as soon as possible.

Non-Fatal Errors

This kind of error still allows you to boot. You will get a message identifying the problem (make a note of this message!) followed by the prompt:

- Press <F1> to resume
- <F2> to enter Setup

Press F1 to see if the boot process can continue. It may work, without the correct configuration.

Press **F2** to run the **Setup** program and try to correct the problem. If you still get an error message after you change the setting, or if the "cure" seems even worse, call for help.



Incorrect settings can cause your system to malfunction. To correct mistakes, return to *Setup* and restore the *Setup Defaults* with <**F9**>.

The Setup Utility

The **Phoenix SecureCore Setup Utility** tells the system how to configure itself and manage basic features and subsystems (e.g. port configuration).

Entering Setup

To enter *Setup*, turn on the computer and press F2 during the **POST**. The prompt (*Press F2 to Enter Setup*) seen on page 5 - 2 is usually present for a few seconds after you turn on the system. If you get a "Keyboard Error", (usually because you pressed F2 too quickly) just press F2 again.

If the computer is already on, reboot using the Ctrl + Alt + Delete combination and then hold down F2 when prompted. The *Setup* main menu will appear.

Setup Screens

The following pages contain additional advice on **portions** of the **Phoenix SecureCore Setup Utility**.

Along the top of the screen is a menu bar with menu headings. When you select a heading, a new screen appears. Scroll through the features listed on each screen to make changes to **Phoenix SecureCore Setup Utility**.

Instructions on how to navigate each screen are in the box along the bottom of the screen. If these tools are confusing, press **F1** to call up a **General Help** screen, and then use the arrow keys to scroll up or down the page.

The **Item Specific Help** on the right side of each screen explains the highlighted item and has useful messages about its options.

If you see an arrow \blacktriangleright next to an item, press **Enter** to go to a sub-menu on that subject. The sub-menu screen that appears has a similar layout, but the **Enter** key may execute a command.

Setup Menus

The **Setup** menus shown in this section are for **reference** only. Your computer's menus will indicate the configuration appropriate for your model and options.

Main Menu

| | | Phoenix Secu | ireCore(ti | n) Setup | Utility | | |
|----------------------|-----------------------------------|--------------|-----------------------------------|------------|----------|------|--|
| Main | Advance | d Securit | y B | oot | Exit | | |
| Custon I | | | [09:54:17] | | | Item | Specific Help |
| System T System D | | | [<u>09</u> :34:17] [05/28/201 | 01 | | | |
| 5 Joccur 2 | | | [007.207.202 | •] | | | |
| ► SATA Por | t 1 | l | FUJITSU M | JA2160BH G | 2] | | <pre><shift-tab>, or > selects field.</shift-tab></pre> |
| System M | emory: | | 633 KB | | | | |
| Extended | Memory: | : | 2037 MB | | | | |
| BIOS Rev | ision: | | ****** | | | | |
| KBC/EC F | irmware Revis | ion: 🔸 | ****** | | | | |
| VGA Card | : | | ****** | | | | |
| VBIOS Re | vision: | * | ****** | | | | |
| VBIOS Bu | ild Date: 👘 | • | ****** | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 1 Help | ↑ ↓ Sel | ect Item | | Change V | alues | | Setup Defaults |
| lse Exit | $\leftrightarrow \rightarrow$ Sel | ect Menu | | Select >: | Sub-Menu | | Save and Exit |

System Time & Date (Main Menu)

The hour setting uses the 24-hour system (i.e., $\emptyset\emptyset$ = midnight; 13 = 1 pm). If you can change the date and time settings in your operating system, you will also change these settings. Some applications may also alter data files to reflect these changes.

Figure 5 - 2 Main Menu

SATA Port 1 (Main Menu)

Pressing **Enter** opens the sub-menu to show the configuration of a HDD on the computer's Serial ATA Port 1. Use the *Auto* (Type:) setting to have the items configured automatically for you.

System/Extended Memory (Main Menu)

This item contains information on the system memory, and is not user configurable. The system will auto detect the amount of memory installed.

BIOS Revision/KBC/EC Firmware Revision (Main Menu)

This item contains information on the current BIOS and firmware versions.

VGA Card/VBIOS Revision/VBIOS Build Date (Main Menu) This item contains information on the current video card and video BIOS.

Advanced Menu

| М | fain | Advan | | nix SecureCor Security | e(tm) Setu Boot | ıp Utility Exit | |
|------------------|--|--|------------------------------|--|--------------------|--------------------|---|
| S L B P | divanced (GATA Mode .egacy USE Boot-time Jower on E Battery Lo | Selectio 3 Support Diagnost 3oot Beep | on: :: :ic Screen) | [AHCI] [Enabl [Disab] [Disab] | Led] Led] | | Item Specific Help Select options for Advanced Chipset features. |
| F1 | Неlp | <u> </u> | Select It | em -/+ | (1) | Values | F9 Setup Defaults |

Detect External CRT (Advanced Menu > Advanced Chipset Control) This sub-menu allows you to Enable/Disable detection for **External CRT's** (external displays). You can disable detection to save system power.

Bluetooth Power Setting (Advanced Menu > Advanced Chipset Control) You can use this item Enable/Disable power to the Bluetooth module if you wish to save system power.

Figure 5 - 3 Advanced Menu

SATA Mode Selection

Windows **7** operating system with **AHCI** mode enabled (default setting), **DO NOT** disable AHCI mode (if you wish to disable AHCI mode you will need to reinstall the *Windows* **7** OS).

DO NOT enable AHCI mode if you are using the Windows XP OS.

5

SATA Mode Selection (Advanced Menu)

You can configure SATA (Serial ATA) control to operate in either **IDE** (native/ compatible) or **AHCI** (Advanced Host Controller Interface) modes from this menu. The **SATA mode** should be set to **AHCI** mode for this system (unless you are sure your hard disk can only operate in **IDE** mode or you are using the *Windows XP* OS). If you are unsure of the mode your hard disk supports contact your service center. **DO NOT enable AHCI mode if you are using the** *Windows XP* OS.

Legacy USB Support (Advanced Menu)

Use this menu item to enable/disable the support for Legacy Universal Serial Bus in non-USB aware operating systems.

Boot-time Diagnostic Screen (Advanced Menu)

Use this menu item to enable/disable the Boot-time Diagnostic Screen or POST screen (see "*The Power-On Self Test (POST)*" on page 5 - 2).

Power On Boot Beep (Advanced Menu)

Use this menu item to enable/disable the beep as the computer starts up.

Battery Low Alarm Beep (Advanced Menu)

Use this menu item to enable/disable the audible warning when the battery has reached low power status.

Security Menu

| Main Advance | ed Security | Boot Exit | |
|---|------------------------|---------------|--|
| Companyi ang Dagamand | Is: Clear | | Item Specific Help |
| Supervisor Password User Password Is: | Clear | | |
| | | | Supervisor Password |
| Set Supervisor Passw Set User Password | ord [Enter] [Enter] | | controls access to t setup utility. |
| | | | secup utility. |
| Password on boot: | Disabled |] | |
| | | | |
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| | | | |
| | | | |
| | | | |
| Help ↑↓ Se | elect Item -/+ | Change Values | F9 Setup Defaul |

Security Menu

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The changes you make here affect the access to the **Setup** utility itself, and also access to your machine as it boots up after you turn it on. These settings do not affect your machine or network passwords which will be set in your software OS.

> *Figure 5 - 4* Security Menu

Set Supervisor Password (Security Menu)

You can set a password for access to the **Phoenix SecureCore Setup Utility**. This will not affect access to the computer OS (only the **Phoenix SecureCore Setup Utility**).

Set User Password (Security Menu)

You can set a password for user mode access to the **Phoenix SecureCore Setup Utility**. This will not affect access to the computer OS, (only the *Setup* utility) unless you choose to set a *Password on Boot* (see below). Many menu items in the **Phoenix SecureCore Setup Utility** cannot be modified in user mode. You can only set the user password after you have set the supervisor password.

Password on boot (Security Menu)

Specify whether or not a password should be entered to boot the computer (you may only set a password on boot if a supervisor password is enabled). If "*Enabled*" is selected, only users who enter a correct password can boot the system (see the warning in the sidebar). The default setting is "*Disabled*".

Note: To clear existing passwords press **Enter** and type the existing password, then press **Enter** for the new password (without typing any password entry) and **Enter** again to confirm the password clearance.

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Password Warning

If you set a boot password (Password on boot is "Enabled"), **NEVER** forget your password.

The consequences of this could be serious. If you cannot remember your boot password you must contact your vendor and you may lose all of the information on your hard disk.

Boot Menu

| Main | Advanced | Security | Boot | Exit | |
|--|-----------------------------------|-----------------|-------|-----------|---|
| Boot pri | ority order: | | | | Item Specific Help |
| 1: USB 2: IDE 3: USB 4: USB 5: PCI 6: 7: 8: 8: Excluded | CDROM: HDD: FUJITSU MJ KEY: | t Ethernet Cont | | | Keys used to view or configure devices: Up and Down arrows select a device. <+> and <-> moves the device up or down. <>> exclude or include the device to boot. <shift +="" 1=""> enables on disables a device.</shift> |
| Help | ^↓ Select | Item -/+ | Chane | re Values | F9 Setup Defaults |

When you turn the computer on it will look for an operating system (e.g. *Windows* 7) from the devices listed in this menu, and **in this priority order**. If it cannot find the operating system on that device, it will try to load it from the next device in the order specified in the **Boot priority order**. Item specific help on the right is available to help you move devices up and down the order.

5

BIOS Screens

Figure 5 - 5 Boot Menu

Note that the BIOS screens pictured on these pages are intended for guidance in setting up your system's BIOS.

BIOS versions are subject to constant change and revision, therefore your computer's actual screens may appear slightly different from those pictured on these pages.

Exit Menu

| | | enix SecureCor | | _ | |
|---------|------------------|----------------|----------|----------|-----------------------|
| Main | Advanced | Security | Boot | Exit | |
| | | | | | Item Specific Help |
| | | | | | |
| | scarding Changes | 5 | | | |
| | tup Defaults | | | | Exit System Setup and |
| | Changes | | | | save your changes to |
| Save Ch | auges | | | | CMOS. |
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| | | | | | |
| | | | | | |
| Неlр | ↑↓ Selec | t Item – / | + Change | e Values | 19 Setup Defaults |

Figure 5 - 6 Exit Menu

Choosing to *Discard Changes*, or *Exit Discarding Changes*, will wipe out any changes you have made to the *Setup*. You can also choose to restore the original *Set-up* defaults that will return the *Setup* to its original state, and erase any previous changes you have made in a previous session.

Chapter 6: Upgrading The Computer

Overview

This chapter contains information on upgrading the computer. Follow the steps outlined to make the desired upgrades. If you have any trouble or problems you can contact your service representative for further help. Before you begin you will need:

- A small crosshead or Phillips screwdriver
- A small regular slotted (flathead) screwdriver
- An antistatic wrist strap

Before working with the internal components you will need to wear an antistatic wrist strap to ground yourself because static electricity may damage the components.

The chapter includes:

- Removing the Battery
- Upgrading the System Memory (RAM)
- Changing the Optional LCD Back Covers

Please make sure that you review each procedure before you perform it.



Please check with your service representative before undertaking any upgrade procedures to find out if this will VOID your warranty.

6

The CPU is not a user serviceable part. Accessing the CPU in any way, may violate your warranty.

Unauthorized tampering with the HDD may also violate your warranty.



Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

When Not to Upgrade

These procedures involve opening the system's case, adding and sometimes replacing parts.

You should not perform any of these upgrades if:

- Your system is still under warranty or a service contract
- You don't have all the necessary equipment
- You're not in the correct environment
- You doubt your abilities

Under any of these conditions, contact your service representative to purchase or replace the component(s).



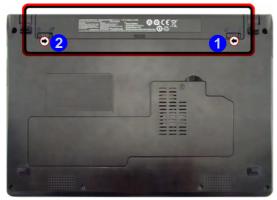
Removal Warning

When removing any cover(s) and screw(s) for the purposes of device upgrade, remember to replace the cover(s) and screw(s) before turning the computer on.

Removing the Battery

If you are confident in undertaking upgrade procedures yourself, for safety reasons it is best to remove the battery.

- 1. Turn the computer off, and turn it over.
- 2. Slide the latch (1) in the direction of the arrow.
- 3. Slide the latch 2 in the direction of the arrow, and hold it in place.
- 4. Slide the battery out in the direction of the arrow **3**...





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Re-Inserting the Battery

Make sure you align the grooves on the side of the battery with the pins in the battery bay when re-inserting the battery.

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Warranty Warning

Please check with your service representative before undertaking any upgrade procedures to find out if this will VOID your warranty.

Figure 6 - 1 Battery Removal

Upgrading the System Memory (RAM)

The computer has **one** memory socket for 204 pin Small Outline Dual In-line (SO-DIMM) **DDRIII (DDR3)** type memory modules (see "*Memory*" on page C - 2 for details of supported module types).

The total memory size is automatically detected by the POST routine once you turn on your computer.

- 1. Turn off the computer, and remove the battery.
- 2. Locate the component bay cover and remove screw 1.
- 3. Carefully lift the component bay cover **2** up.





Figure 6 - 2 Component Bay Cover Removal

4. Gently pull the two release latches on the sides of the memory socket in the direction indicated by the arrows (3 & 4) in *Figure 6 - 3*.



5. The RAM module will **5** pop-up, and you can remove it.



Figure 6 - 3 **RAM Module Release Latches**

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Contact Warning

Be careful not to touch the metal pins on the module's connecting edge. Even the cleanest hands have oils which can attract particles, and degrade the module's performance.

> *Figure 6 - 4* RAM Module Removal



Note that the computer has five cover pins. These pins need to be aligned with slots in the bottom of the case to insure a proper cover fit, before screwing down the bay cover.

Figure 6 - 5 Component Bay Cover Pins

- 6. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
- 7. The module's pin alignment will allow it to only fit one way. Make sure the module is seated as far into the slot as it will go. DO NOT FORCE the module; it should fit without much pressure.
- 8. Press the module in and down towards the mainboard until the slot levers click into place to secure the module.
- 9. Replace the component bay cover (see sidebar) and screw.



10. Replace the battery and restart the computer to allow the BIOS to register the new memory configuration as it starts up.

Changing the Optional LCD Back Covers

If your purchase option includes the specially designed changeable LCD back cover option (not available for all models), then follow the instructions below to change the covers (note these covers are not applicable to all models in this series - consult your service center for details).

- 1. Open the LCD and carefully remove the rubber screw covers 1 & 2 and set them aside.
- 2. Remove screws (3) & (4) from the front cover.

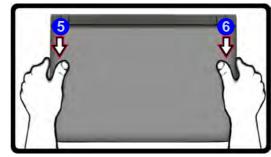


| Ø |
|--|
| Rubber Screw Covers |
| After removing the rub- ber screw covers, place them on a clean dry surface (or attach them to the front cover itself) in order to pre- vent loss of adhesive. |

Figure 6 - 6 Removing the Covers & Screws

3. Carefully slide the cover forward in the direction of the arrows **5** & **6** as illustrated below.

Figure 6 - 7 Slide the Cover Forward



4. Remove the LCD back cover 7.

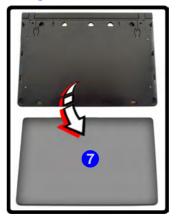
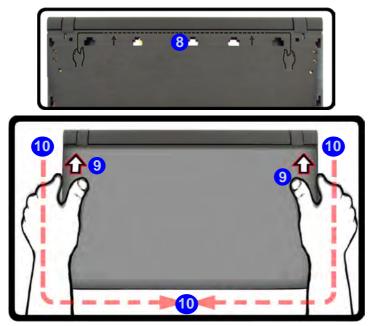
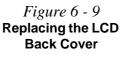


Figure 6 - 8 Remove the LCD Back Cover

6 - 8 Changing the Optional LCD Back Covers

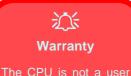
5. Align the replacement cover with the dotted line (8) as illustrated below (and as marked on the cover).





- 6. Slide the cover forward until it clicks firmly into place 9.
- 7. Run your hands around the sides and front of the cover 10 to make sure it is firmly aligned in place (carefully press down to make sure the fit is secure).
- 8. Replace the screws and rubber covers (see Figure 6 6 on page 6 7).

Upgrading The Computer



serviceable part. Accessing the CPU in any way, may violate your warranty.

Unauthorized tampering with the HDD may also violate your warranty.

Upgrading the Hard Disk

If you want to upgrade your computer by replacing the existing hard disk with a faster/new one you will need to contact your customer service representative. We recommend that you do not do this yourself, since if it is done incorrectly you may damage the computer and may violate your warranty.

6 - 10 Upgrading the Hard Disk

Chapter 7: Modules & Options Overview

This chapter contains information on the following modules, which may come with your computer, depending on the configuration purchased. If you are unsure please contact your service representative.

- Wireless LAN Module
- PC Camera Module
- 3.75G/HSPA Module
- Bluetooth Module

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Important Notice - 3.75G/HSPA & Bluetooth/Wireless LAN Modules

If your purchase option includes both **Wireless LAN** and **3.75G** modules, then the appropriate antennas will be installed. Note that In order to comply with FCC RF exposure compliance requirements, the antenna must not be co-located or operate in conjunction with any other antenna or transmitter.

In order to comply with FCC regulations you should NOT operate the 3.75G/HSPA module and the Bluetooth/Wireless LAN modules at the same time as this may disrupt radio frequency, and cause interference.

When the 3.75G/HSPA module is powered on, make sure that the Bluetooth/Wireless LAN modules are powered off.

Driver Installation & Module Power

Make sure any modules (e.g. WLAN, PC Camera, 3.75G/HSPA & Bluetooth modules) are **ON** before installing the appropriate driver.



The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the Fn + F11 key combination to toggle power to the WLAN module, and check the indicator to see if the module is powered on or not (see Table 1 - 2, on page 1 - 9/ Table 1 - 3, on page 1 - 10).

Wireless LAN Module

If you have included an **802.11b/g/n WLAN** module in your purchase option, make sure that the Wireless LAN module is on before installing the driver (the WLAN module's default power state is off).

Use the **Fn** + **F11 key combination** (see "*Function/Hot Key Indicators*" on page 1 - 9) to toggle power to the Wireless LAN module. Make sure you install the drivers in the order indicated in *Table 4 - 1, on page 4 - 3*. Your installation procedure will be dependent upon which WLAN module is included in your purchase option.

Wireless should be turned **ON** in the **Windows Mobility Center** to ensure proper wireless function key behavior (see *"Wireless Hot Keys" on page 3 - 12*).

802.11b/g/n WLAN Driver Installation

If you see the message "Found New Hardware" click Cancel to close the window.

- 1. Insert the *Device Drivers & Utilities + User's Manual disc* into your external optical device drive.
- 2. Click **Option Drivers** (button).
- 3. Click **1.Install WLAN Driver > Yes**.
- 4. Select the installation language and click Next.
- 5. Click **Next > Install**.
- 6. Click **Finish** to restart the computer.

Note: The operating system is the default setting for Wireless LAN control in *Windows* 7 (see your *Windows* 7 documentation).



work and Sharing Center control panel in Windows (Network and Internet) to connect to any available wireless networks.

Figure 7 - 1 Click Taskbar Icon Menu & Network and Sharing Center

Connecting to a Wireless Network

Make sure the Wireless LAN module is turned on.

Click the taskbar wireless icon , and then double-click an access point to connect to or click to Open Network and Sharing Center if you do not see a network you want to connect to in the taskbar menu (a list of options will appear allowing setting changes, and creating a new network).

| Connections are available | | Control Panel Home Manage wireless networks | View your basic network information and set up connections |
|---|-------------------------|---|---|
| Wireless Network Connection ZyXEL PDA_DLINK CA00 | | Dange adapter settings Onange advanced tharing settings | EDDL-PC Internet (This computer) Connect to a network View your active networking Connect to an extension Change your networking settings Set to a net connection or network Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Set to a networking settings Settings settings |
| ADSL-LINKSYSY-N DI-524K DWL-g | lite- lite- lite- | Set into HomeGroup Internet Options Windows Firewall | Choose homegroups and sharing options Access files and printers located on other network computers, or change sharing settings. Troublemoot problems Diagnose and repair metwork problems, or get troubleancosing information |
| corega Open Network and Sharing Ce | Sul . | | |

- 2. You may need to enter a security key for any access point to which you are trying to connect.
- 3. Click to select a network location (e.g. Home, Work or Public).
- 4. Click "View or change settings in Network and Sharing Center" to access further options for the connection.

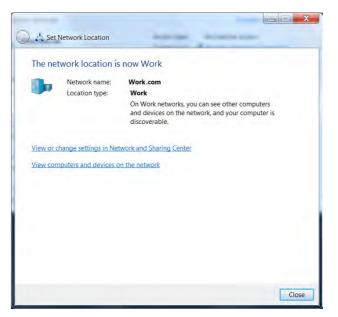
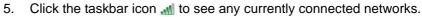


Figure 7 - 2 Network Location Set

Modules & Options

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6. To disconnect from the wireless network you can click the taskbar wireless icon and, click the active connection and then click **Disconnect** (button).



Security Enabled Networks You should try to make sure that any network you are connecting to is a secure network.

Connecting to unsecure networks may allow unauthorized access to your computer, documents, websites and files etc.

Figure 7 - 3 Click Taskbar Icon Menu - Disconnect

Windows Mobility Center

The **Windows Mobility Center** control panel provides an easy point of access for information on battery status, power plans used and wireless device status etc.

To access the Windows Mobility Center:

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Double-click Windows Mobility Center (Mobile PC).
- 3. Click the button to **Turn wireless off/on**, or click the icon **to access the network** menu.



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Wireless Hot Keys

The computer's wireless function keys will not function properly if **Wireless** is turned **OFF** in the **Windows Mobility Center** control panel.

The wireless indicators may show that the WLAN module is powered on, however if wireless is OFF in the Mobility Center, the module will not be powered on.

Make sure that Wireless is **ON** in the Mobility Center to ensure proper function key behavior.

Figure 7 - 4 Windows Mobility Center



Latest PC Camera Driver Information

Check the **Device Driv**ers & Utilities + User's **Manual disc**, and any accompanying insert pages, for the latest updated information on the PC Camera driver, which may override the information provided here.

PC Camera Driver Uninstallation

If you need to uninstall the driver, then uninstall the **WebCam Installer** item from the **Programs and Features** control panel in **Windows**.

PC Camera Module

The PC Camera application captures video files and takes pictures. Before installing the driver, make sure that the optional PC Camera is on. Use the Fn + F10 key combination (see *"Function/Hot Key Indicators" on page 1 - 9*) to toggle power to the PC Camera module. Make sure you install the drivers in the order indicated in *Table 4 - 1, on page 4 - 3*.

There are a number of different camera modules available with this computer model series. You will have the appropriate application installed for your camera (note that some versions of the camera application do not support the zoom function). Make sure you access the application via the desktop shortcut.

PC Camera Driver Installation

- 1. Insert the *Device Drivers & Utilities* + *User's Manual disc* into your external optical device drive.
- 2. Use the **Fn** + **F10** key combination to turn the camera module on and give the system a few seconds to recognize the camera module before beginning the installation process (the message "*device is ready to use*" should appear).
- 3. Click **Option Drivers** (button).
- 4. Click **2.Install Webcam Driver > Yes**.
- 5. Choose the language you prefer and click **Next** > **Next** > **Finish** to restart the computer.

OR

Click Next > Next > Install > Finish > Yes to restart the computer. OR

Click Next > Install > Finish > Finish to restart the computer.

6. Run the camera application program from the desktop shortcut (if the hardware is turned off use the Fn + F10 key combination to turn it on again).

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PC Camera Screen Refresh

The PC Camera module supports a frame rate of 12 fps. If you find that the screen refresh rate is subject to lag or stuttering, then **reduce the window size**, or adjust the **Output Size** and/or **Color Space Compression**.

To reduce **Output Size** and/or **Color Space Compression** run the **WebCam** application, click **Options** and select **Video Capture Pin**. Adjust the settings from the appropriate pull-down menu.

PC Camera Audio Setup

If you wish to capture video & **audio** with your camera, it is necessary to setup the audio recording options in *Windows*.

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Click Sound 🔮 (Hardware and Sound).
- 3. Click **Recording** (tab).
- 4. Right-click Microphone and make sure the item is not disabled.
- 5. Double-click Microphone (or select Properties from the right-click menu).
- 6. Click Levels (tab), and adjust the Microphone and Microphone Boost sliders to the level required.
- 7. Click **OK** and close the control panels.
- 8. Run the camera application program from the desktop shortcut.
- 9. Go to the **Devices** menu heading and select **Microphone** (it should have a tick alongside it).
- 10. Go to the **Capture** menu heading and select **Capture Audio** (it should have a tick alongside it).

Camera Application

The camera application is a video viewer for general purpose video viewing and testing, and for capturing video files to .avi format.

- Run the camera application from the desktop shortcut (it is recommended that you set the capture file before the capture process - see "Set Capture File" on page 7 - 11).
- 2. Go to the **Capture** menu heading (if you wish to capture audio check "*PC Camera Audio Setup*" on page 7 10) and select **Start Capture**.
- 3. Click **OK/Yes** (the file location will be displayed in the pop-up box) to start capturing the video, and press **Esc** to stop the capture (you can view the file using the **Windows Media Player**).

Set Capture File

Prior to capturing video files you may select the **Set Capture File..** option in the **File** menu, and set the file name and location before capture (this will help avoid accidentally overwriting files). Set the name and location then click **Open**, then set the **"Capture file size:"** and click **OK**. You can then start the capture process as on the previous page.

Note the important information in reducing video file size below in order to save file space, and help prevent system problems.

Pre-Allocating File Size/Space

You may pre-allocate the file size (**File > Allocate File Size/Space**) for the capture file in the camera program (you may need to set a folder location first).

Pre-allocating space on the hard disk can improve the capture quality (particularly of large capture files), by reducing the amount of work the hard disk has to do in finding space for the video data as it is being captured.

See also "*Reducing Video File Size*" on page 7 -12.

Reducing Video File Size

Note that capturing high resolution video files requires a substantial amount of disk space for each file. After recording video, check the video file size (right-click the file and select **Properties**) and the remaining free space on your hard disk (go to **My Computer**, right-click the hard disk, and select **Properties**). If necessary you can remove the recorded video file to a removable medium e.g. CD, DVD or USB Flash drive.

Note that the *Windows* 7 system requires a minimum of **15GB** of free space on the **C: drive** system partition. In order to prevent system problems it is recommended that you save the captured video file to a location other than the **C: drive** (see set capture file above), limit the file size of the captured video (see "*Pre-Allocating File Size/Space*" on page 7 - 11) or reduce video resolution (see below).

To Reduce Video Resolution Output Size:

- 1. Run the camera application program from the desktop shortcut.
- 2. Go to Options and scroll down to select Video Capture Pin....
- 3. Click the **Output Size** drop box and select a lower resolution size in order to reduce the captured file size.
- 4. Click OK.

Eliminating Screen Flicker

If you find that the video screen in the camera program is flickering, you can try to adjust the setting in the **Video Capture Filter** options.

- 1. Run the camera application from the desktop shortcut.
- 2. Go to Options and scroll down to select Video Capture Filter....
- 3. Click either **50Hz** or **60Hz** under **Frequency**.

| roperties | | |
|--------------------------|--------------|---------------------------|
| Property Page Vic | deo Proc Amp | |
| Auto White Ba | lance | RGB gain |
| Auto | Tungsten | G |
| O Daylight | Fluorescent | B |
| Rotation | | Frequency |
| Horizontal | Vertical | O Disable O 50 Hz O 60 Hz |
| | | |
| | | Reset |
| - | - | OK Cancel Apply |



Latest PC Camera Driver Information

Check the **Device Driv**ers & Utilities + User's **Manual disc**, and any accompanying insert pages, for the latest updated information on the PC Camera driver, which may override the information provided here, including the figures pictured here.

Figure 7 - 5 Video Capture Filter

Zoom

The camera program allows you to zoom the camera in and out.

- 1. Run the camera application from the desktop shortcut.
- 2. Go to Zoom and select Zoom Out/Zoom In.

Figure 7 - 6 **Zoom/Setting**

| Zoom Help | |
|-----------|--|
| Zoom Out | |
| Zoom In | |

Snapshot Folder

The Snapshot folder's default location is on the desktop. Do not move this folder or an error may appear when you try to take a still picture.

If you accidentally delete or move the folder, you can create a new Snapshot folder on the desktop in order to capture the files.

Taking Still Pictures

The camera program allows you to take still pictures.

- 1. Run the camera application from the desktop shortcut.
- 2. Go to Options and select Take Picture/Snapshot.
- 3. The picture (in JPEG format) will be placed in the **Snapshot** folder desktop (see sidebar).



7 - 14 PC Camera Module

3.75G/HSPA Module

If you have included an **optional 3.75G/HSPA** (High Speed Packet Access) module in your purchase option, you will have the appropriate application (**Mobile Partner** or **BandLuxe HSDPA Utility**) provided for your particular module. Follow the instructions *on page 1 - 14* to install the USIM card (supplied by your service provider), and then install the application (see over for further details).

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Important Notice - 3.75G/HSPA & Bluetooth/Wireless LAN Modules

In order to comply with FCC regulations you should NOT operate the 3.75G/HSPA module and the Bluetooth/Wireless LAN modules at the same time as this may disrupt radio frequency, and cause interference. When the 3.75G/HSPA module is powered on, make sure that the Bluetooth/Wireless LAN modules are powered off.

3.75G/HSPA Module Options

There are **two optional** 3.75G/HSPA modules available for this series of computer models. Each module is supplied with the appropriate application software.

The module type supplied may depend upon the computer model purchased. Check with your service center for details.

Install the driver from the Drivers Installer menu and check the instructions for the appropriate application on the following pages.



ules **DO NOT** support system wake up on 3.75G/HSPA modem activity. **Before installing the application, make sure that the 3.75G/HSPA module is ON** (installing the driver with the module off will not allow the software to detect the module hardware correctly). Use the Fn + $\boxed{\ }$ key combination (see "*Function/Hot Key Indicators*" *on page 1 - 9*) to toggle power to the 3.75G/HSPA module. Note that exiting the application does NOT turn off the 3.75G/HSPA module.

- Mobile Partner See "Mobile Partner Application Installation" on page 7 17 for driver installation information and "Mobile Partner Application" on page 7 18 for instructions on using the Mobile Partner application.
- BandLuxe HSDPA Utility See "BandLuxe HSDPA Utility Installation" on page 7 - 24 for driver installation information and "BandLuxe HSDPA - Connection Manager" on page 7 - 25 for instructions on using the BandLuxe HSDPA Utility.

Mobile Partner

With the **3.75G/HSPA** module and USIM card (supplied by your service provider) installed you may then install the **Mobile Partner** application. The **Mobile Partner** application allows you to directly access your HSPA internet service from the computer.

Mobile Partner Application Installation

- Enable power to the module by pressing the Fn + key combination (give the module about 10 seconds to power on - the on screen icon will indicate the module's power status).
- 2. If a *Found New Hardware* window appears, click **Cancel** (click **Cancel** for all *Found New Hardware* windows that appear).
- 3. Insert the *Device Drivers & Utilities + User's Manual disc* into your external optical device drive.
- 4. Click **Option Drivers** (button).
- 5. Click **3.Install 3G Driver > Yes**.
- 6. Choose the language you prefer and click **OK**, and then click **Next**.
- 7. Click I Agree (button) to accept the license agreement.
- 8. Click **Next > Install**.
- 9. Click Finish.
- 10. Access the **Mobile Partner** application from the **Start** menu (**Start > Programs/All Programs > Mobile Partner**), or by double-clicking the **Mobile Partner** icon on the desktop.

Wireless Device Operation Aboard Aircraft

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The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn** + _ (**I**) key combination to toggle power to the 3.75G/ HSPA modem module, and check the indicator to see if the module is powered on or not (see *Table* 1 - 2, on page 1 -9/ *Table* 1 - 3, on page 1 - 10).



Mobile Partner Application

You will need to contact your service provider to obtain the exact details of how exactly to configure the settings on this page.

Profile Management

- 1. Power on the **3.75G/HSPA** module using the **Fn** + $\boxed{}$ key combination.
- Access the Mobile Partner application from the Start menu (Start > Programs/ All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop .
- 3. If you have not created a profile, click **Tools** and select Options, and then click **Profile Management**.
- 4. Click **New** and input the appropriate information for **Profile Name, APN** and **Authentication** etc. as supplied by your service provider.
- 5. Click **Save** to save the profile.



Figure 7 - 7 **Profile Management**

Connecting to the Service Provider

- 1. Power on the **3.75G/HSPA** module using the **Fn** + = key combination.
- Access the Mobile Partner application from the Start menu (Start > Programs/ All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop .
- 3. The software will run and you can select the **Profile Name** from the menu.
- 4. Click **Connect** to begin the connection process.





- 5. The Mobile Partner application will then display the connection information.



Figure 7 - 9

Network Connection Prompt

6. When the connection is successful you can move the cursor over the network icon in the taskbar to display the connection information.

Figure 7 - 10 Connected Taskbar Notification



- 7. You can then access the internet, download e-mail etc. as per any internet connection.
- 8. While you are connected the indicators in the Mobile Partner window will display uploading and downloading icons and a network icon in the taskbar **[**].



9. To disconnect click the **Disconnect** icon, or right click the taskbar icon and select **Disconnect**.

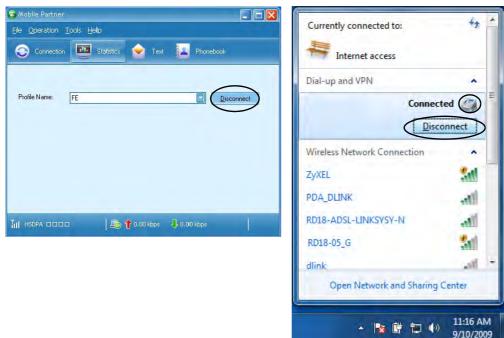


Figure 7 - 11 **Disconnect**

Modules & Options

- 10. The program will disconnect from the service provider.
- 11. The module will still be on, and you will need to press the **Fn** + key combination to turn it off.

12. If you click the **Mobile Partner** close icon **⊠** a message will be displayed asking you to click **OK** to confirm the program exit and to **terminate the connection**.



- Exiting the program terminates the connection, but DOES NOT turn off the 3.75G/ HSPA module, and you will need to press the Fn + key combination to turn off the module (pay careful attention to this aboard aircraft - see "Wireless Device Operation Aboard Aircraft" on page 7 - 17).
- 14. If the module is on and the computer enters a power-saving state, then the power status of the module on resuming from the power-saving state will be as below:
- If the 3.75G/HSPA module is on and the computer is **Shut Down or Restarted**; the module will be **off** when the computer starts up.
- If the 3.75G/HSPA module is on and the computer enters **Sleep or Hibernate**; the module will be **off** when the computer resumes from sleep.

Figure 7 - 12 Exit Prompt

Text Messaging Service

In addition to standard internet services you may also send and receive SMS text messages using the **Mobile Partner** program, if your service supports SMS.

Reading SMS Messages

- 1. An icon x will blink at the bottom of the **Mobile Partner** interface to notify you of any new messages received.
- 2. Click the **Text** icon **o** in the **Mobile Partner** Interface.
- 3. Select the Local > Inbox or SIM/USIM Card folder and select any message to read it.
- 4. Right-click the message and choose an option to reply, forward or delete the message.

Creating and Sending SMS Messages

- 1. Click the **Text** icon **o** in the **Mobile Partner** Interface.
- 2. Click the New button 🔀.
- 3. Enter the recipient's number in the **Send To...** field or click the **Send To...** button to select an entry from the phone book, and click **OK**.
- 4. Type in the message details.
- 5. Click the **Send** button, **Save** button to send the message later or **Close > Yes** to save in the **Draft** folder.

For more details on SMS click the **Help** menu and select **Online Help** or press **F1** and select **SMS**.



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the Fn + _ (-) key combination to toggle power to the 3.75G/ HSPA modem module, and check the indicator to see if the module is powered on or not (see Table 1 - 2, on page 1 -9/ Table 1 - 3, on page 1 - 10).

BandLuxe HSDPA Utility

With the **3.75G/HSPA** module and USIM card (supplied by your service provider) installed you may then install the **BandLuxe HSDPA Utility**. The **BandLuxe HS-DPA Utility** allows you to directly access your HSPA internet service from the computer.

BandLuxe HSDPA Utility Installation

- Enable power to the module by pressing the Fn + key combination (give the module about 10 seconds to power on - the on screen icon will indicate the module's power status).
- 2. If a *Found New Hardware* window appears, click **Cancel** (click **Cancel** for all *Found New Hardware* windows that appear).
- 3. Insert the *Device Drivers & Utilities + User's Manual disc* into your external optical device drive.
- 4. Click **Option Drivers** (button).
- 5. Click **3.Install 3G Driver > Yes**, and then click **Next**.
- 6. Choose the language you prefer and click **OK** > **Next**.
- 7. Click the button to accept the license and click Next.
- 8. Click **Next > Install**.
- 9. Click Finish.
- 10. Access the BandLuxe HSDPA Utility from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > Band-Luxe > BandLuxe HSDPA Utility R11 > Connection Manager).

3.75G/HSPA Module 7 - 25

BandLuxe HSDPA - Connection Manager

The connection information is stored on the USIM card supplied by the service provider (where this is not the case you may need to create a profile - see "*Creating a Profile*" *on page 7 - 28*).

- 1. Power on the 3.75G/HSPA module using the Fn + = key combination.
- 2. Access the Connection Manager from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).
- 3. Click CONNECT



Figure 7 - 13 BandLuxe Connection Manager (Not connected)

- 4. The system will connect to your network (you may need to set your network connection to home, work or public on the first connection).
- 5. The connected icon will appear at the top of the utility screen.

Figure 7 - 14 Connected



6. You can then access the internet, download e-mail etc. as per any internet connection.



Figure 7 - 15 BandLuxe Connection Manager (Connected)

Modules & Options While you are connected the taskbar icon will display the connected icon in, and 7. the taskbar will display the connected icon and BandLuxe HSDPA Connection Manage *Figure* 7 - 16 Taskbar Icon (Connected) Customize... 9:29 AM 💽 😼 🛈 12 0 8/3/2010 To disconnect from the service provider, click the **Disconnect** 8. icon. or click the close icon at the top right of the utility, and click Yes to confirm. 9. The program will disconnect from the service provider. 10. The module will still be on, and you will need to press the **Fn** + = key combination to turn it off. 11. If you are unsuccessful in connecting this way you may need to add a profile with information provided by your service provider (see over).

Creating a Profile

- 1. Access the Connection Manager from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).
- 2. Click the **Menu > Profile**.



3. The default profile will display the service provider's name from the USIM card.



Figure 7 - 17 Menu - Profile

Figure 7 - 18 **Default Profile**

- 4. Click **New** (button) and input any **Network Settings** required by your service provider (all fields may not need to be filled in).
- 5. The profile name is used to identify your profile if a number of profiles are used.
- 6. You will need to check with your service provider to confirm if the **User Name** and **Password** are required.
- 7. You will need to enter the **Access Point Name** and phone **Number** as supplied by the service provider.
- 8. Click **Save** to save the profile.

| Profile Name : | BandLuxe | |
|----------------|------------|--------|
| Number : | 1234567 | Save |
| User Name : | MyUse Name | Cancel |
| Password : | ••••• | |
| APN : | Internet | Detail |
| | | |
| | | |



Figure 7 - 19 **Profile Detail**

New SIM Card

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If you switch to a different SIM card, then the default profile will no longer be valid. You will need to create a new profile as described here. If you do not have access to all the information necessary to create a new profile you should uninstall the BandLuxe software and then reinstall it. The new default profile should obtain the information from the SIM card.

> *Figure 7 - 20* **Profile Set as Default**

- 9. Click the newly created profile in the profile window and then click **Default** (button) to set the profile as the default connection (note that only one profile may be stored as the default connection).
- 10. The newly created profile will now be stored as the default connection when you click **Connect** in the **Connection Manager Home** screen.
- 11. To use a profile click to select it, and then click **Apply** (button) and the settings will be transferred to **Connection Manager**.

| Default | Name | New |
|---------|-------------------------|----------|
| YES | BandLuxe FET | |
| | | Delete |
| | Get the latest APN list | database |

Choosing a Profile

If you need to switch stored profiles follow the instructions below:

- 1. Access the Connection Manager from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).
- 2. Click the **Menu > Profile**.
- 3. Highlight the profile required and click Default.
- 4. Click **OK** to confirm.
- 5. YES will be displayed alongside the chosen default profile.



Figure 7 - 21 Choosing a Profile



(APN) list. When the network connection is established, click the Get the latest APN list database (button) to update the information.

Figure 7 - 22 Profile Properties (General)

Editing a Profile

If you need to edit stored profiles follow the instructions below:

- 1. Access the Connection Manager from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).
- 2. Click the Menu > Profile.
- 3. Highlight the profile required and click Edit.
- You will then be able to access the General tab (you will need to confirm with your service provider for any changes to make here, and the other tabs are generic to *Windows*).

| Phone numb | ber | Configure |
|--------------------|---------------------------|-----------------------|
| At <u>e</u> a code | - | |
| | - *99# | Altemates |
| Country/re | gion code: | |
| THE LASS OF | baradar | (m.) |
| Use dia | ling rules | Dialing <u>R</u> ules |
| | | |
| | e privacy statement for d | |

Text Messaging Service (SMS)

In addition to standard internet services you may also send and receive SMS text messages using the **Connection Manager**, if your service supports SMS.

Inbox

The **Inbox** will contain any received SMS. Click to select the message and it will scroll open above. Select the message and press the **Save**, **Delete** or **Reply** buttons to perform the appropriate function. Unread messages are displayed as closed envelope icons **MIP**, and read messages are open displayed as envelope icons **MIP**.







Figure 7 - 23 SMS Inbox with Message Open





Select a contact from the **Outlook** address book.

Select a contact from the **Band-Luxe** contact list.

Figure 7 - 24 SMS Contact List

Sent

The **Sent** folder contains any successfully sent SMS. Select the message and press the **Delete** to erase the record.

Outbox

The **Outbox** folder contains any completed but unsent SMS. Select the message and press **Send** or **Delete** as appropriate.

Compose

Click **Compose** to create a new message. You can enter the telephone number in the **To** field, or click the contact button $\overline{\cdots}$ to add a contact from a list. The contact list allows you to choose 3 contact options (see sidebar).

Click a contact and click **Select** to choose it, and click **Exit** to return to the **Compose** screen.

| Name | Number | 1 |
|--------|---------------|--------|
| Rty | 0992999355 | Select |
| Test | 1256125363561 | |
| ny ger | 0536461951 | Exit |
| Ter | 0921553725 | |

Template

A template can store text that is used regularly in messages, and can be easily inserted in to any new SMS.

Click **Template** (button) to view any stored templates. Click to highlight a template and click **Select** (button) to insert it into the message. Click **New** (button) to create a new template, and **Save** (button) to add it to the existing list.

To delete a template click to highlight it, and click **Delete** (button) to delete it.

| Reminder - Friday's meeting time is now set for 3:30PM each Please remember that the meeting every Monday is at 9:00; | Select |
|--|--------|
| | Cancel |
| | Delete |



Draft

The Draft folder contains messages that have been composed but not yet sent. Click to highlight a message in the draft window and click **Edit** (button) to return to the **Compose** window to finish the message editing.

Language

The Connection Manager

offers multiple language

interfaces. Click the menu

and select a language

from the dropbox. Click Save (button) to imple-

ment the changes. You

will then return to the

home screen with chosen language selected.

Setting

The **Setting** menu allows you to edit the programs basic parameters.

- 1. Access the Connection Manager from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).
- 2. Click the Menu > Setting.
- 3. Click the appropriate tab heading to edit the settings.
- 4. After you have edited the settings, click **Save** (button) to confirm the changes.

General

Click the **Auto connect on startup** checkbox to have the program automatically connect to the internet when the program is run. Click **Save** (button) to confirm the changes.

Figure 7 - 26 **Setting - General**

| Auto connect on startup | |
|-------------------------------|------|
| Language | Save |
| English - United States (1) 🔹 | |
| | |

SMS - Preference

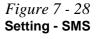
Click the **New SMS Notify** checkbox to be automatically notified when a new SMS arrives. If enabled a the incoming message notification will appear in the taskbar,



Figure 7 - 27 Incoming SMS Notification

and an envelope icon will appear in the upper left corner of the **Home** screen when a new message arrives.





SMS - SMS Service Center

Click the **Use default number in phone** checkbox to use the default number from the USIM card, or uncheck to manually input a new service center number. Click **Save** (button) to confirm the changes.

SIM

This menu allows you to edit the USIM card **Personal Identification Number** (**PIN**) and **Enable/Disable** the PIN if necessary. Press **Apply** after making any changes. A SIM card must be inserted for this function to be activated.

| Enable/Disable | 1 |
|-----------------|-------|
| Current PIN | Apply |
| Change PIN code | |
| New PIN | |
| Confirm PIN | Apply |

If a PIN code is enabled, the input will be requested during USIM card initialization. After 3 incorrect PIN code entries the USIM card will be locked, and you will need to contact your service provider to unlock it.



Radio

Set the appropriate network search options from the dual mode setting menu. Click **Apply** (button) after making any changes.

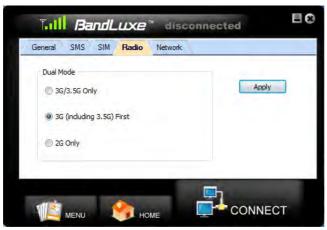


Figure 7 - 30 **Setting - Radio**

Note: 2G/3G/3.5G data transferring will be disconnected when you apply a new Radio setting.



Figure 7 - 31 Setting - Network & Prefer List

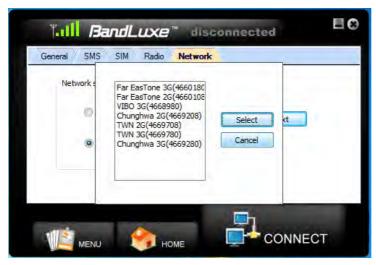
Network - Network Selection

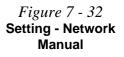
Edit the network selection settings from this menu. The **Standard (auto)** setting will search for networks in the order specified in the **Prefer** list. Click **Standard (auto)** > **Next** to view and adjust the **Prefer** list. The Prefer list is displayed at the top of the screen, and the bottom of the screen lists all available networks. Click **Scan** to bring up a list of all available networks.

| eneral SMS SIM Radio Network | Prefer list : | |
|------------------------------|--|--------|
| Network selection | Far EasTone (4660188) | * |
| Standard(auto) | J | Save |
|) Manual | 2 | Cance |
| | Far EasTone 3G(4660180) Far EasTone 2G(4660108) TWN 2G(4669708) Chunghwa 2G(4669208) TWN 3G(4669780) | * Scan |

Click to highlight a network in the **Prefer** list, and click the up arrow on the left to move it up the list (to increase its preference); click the down arrow to decrease the preference. Clicking the red icon removes the highlighted network from the **Prefer** list.

In the bottom list, highlight a network and click the up arrow above to move that network to the Prefer list. Click **Save** (button) to confirm the changes. The **Manual** setting allows you to choose a network from all available. Click **Manual** > **Next** to view the list. Click to highlight a network from the list, and click **Select** (button) to choose the network, or **Cancel** (button) to make no change.





Statistics & Information

The **Statistics** screen displays a graph of recent upload and download activity. No data will be displayed if there is no current connection.

- 1. Access the Connection Manager from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).
- 2. Click the **Menu > Statistics**.
- 3. Click **Connection Log** (tab) to see data counting by each and total connection status (for reference only).

| 2754.0 2203.2 | Time : 1:36 mins | DateTime | Operator | Download(KB) | Upload(KB) | |
|------------------|---------------------|---------------------|-------------|--------------|------------|--------------|
| 2 | | 08/02/2010 14:37:46 | Far EasTone | 14538.32 | 806.45 | Download |
| 2 1001.4 | 20122-02 | 08/02/2010 16:45:20 | Far EasTone | 5511.14 | 119.09 | 82.66 MB |
| 1101.6 | and the second | 08/02/2010 16:51:59 | Far EasTone | 15420.21 | 239.08 | |
| S 550.8 | | 08/03/2010 09:28:39 | Far EasTone | 4217.77 | 91.73 | Upload: |
| 0.0 Download | Download : | 08/03/2010 09:31:34 | Far EasTone | 2.73 | 2.11 | 2.27 MB |
| E LANIE ROBO | 112.75 Kbps | 08/03/2010 10:50:19 | Far EasTone | 219.03 | 125.08 | |
| 80.0 | Ubload : | 08/03/2010 11:17:53 | Far EasTone | 5.37 | 2.96 | |
| 8 64.0 | 10.42 Kbos | 08/03/2010 15:03:12 | Far EasTone | 44733.41 | 941.09 | Relor |
| 1900 64 0 | | | | | | THE NO |
| 220 Sec. 1 | | | | | | |
| 160 | | | | | | Clea |
| ⊇ 16.0 | | | | | | Annalisation |

The Information screen displays Version or Signal specifications.

- 1. Access the Connection Manager from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).
- 2. Click the Menu > Information.
- 3. Click About, USSID or STK (tab) to view the appropriate information.

Figure 7 - 33 Statistics & Connection Log

Bluetooth Module

There are two Bluetooth module options available for this computer. If your purchase option (**Model D only**) includes the **Combination Wireless LAN & V3.0 Bluetooth module** then install the driver as instructed overleaf. Follow the instructions on page 7 - 49 to configure the Bluetooth settings. See "*Bluetooth Module*" on page D - 41 for information on the *Windows XP OS*.

If your purchase option includes a **standard V2.1 Bluetooth module**, then the operating system's **Bluetooth Devices** control panel is used to configure the Bluetooth settings in *Windows 7*, and therefore does not require a driver. Use the Fn + F12 key combination to toggle power to the Bluetooth module and Fn + F11 to toggle power to the WLAN module (see *"Function/Hot Key Indicators" on page 1 - 8*).



Bluetooth Data Transfer

Note that the transfer of data between the computer and a Bluetooth enabled device is supported in **one direction only (simultaneous data transfer is not supported)**. Therefore if you are copying a file from your computer to a Bluetooth enabled device, you will not be able to copy a file from the Bluetooth enabled device to your computer until the file transfer process from the computer has been completed.

Bluetooth Module & Resuming From Sleep Mode

The Bluetooth module's default power state will be **on** after resuming from the **Sleep** power-saving state. Note the information in the sidebar on wireless device operation aboard aircraft.

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Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the Fn + F12 key combination to toggle power to the Bluetooth module, and check the LED indicator to see if the module is powered on or not (see Table 1 -2, on page 1 - 9/ Table , on page 1 - 10).



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The Combination Wireless LAN & V3.0 Bluetooth module supports high speed (V3.0) data transfer. However to achieve such transfer speeds, both devices must support high speed data transfer.

To obtain high speed (V3.0) data transfer make sure that both the WLAN and Bluetooth modules are powered on.

Check your Bluetooth compatible device's documentation to confirm it supports high speed data transfer, and for configuration information..

Bluetooth Combo Driver Installation

Note this driver is required only for the combo Bluetooth and WLAN module only.

- Before installing the driver make sure the Bluetooth module is powered on (use Fn + F12 key combinations), then insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/DVD drive. If a *Found New Hardware* window appears, click Cancel in all windows that appear, and then proceed to install the driver as below.
- 2. Click **Option Drivers** (button).
- 3. Click **4.Install Combo BT Driver > Yes**.
- 4. Choose the language you prefer and click OK.
- 5. Click Next.
- 6. Click the button to accept the license and click Next.
- Click Next > (select if you want to create an icon to appear on the desktop) Next > Install.
- 8. Click Finish.
- 9. The **My Bluetooth** icon **B** will appear on the desktop and the **Bluetooth** item will be installed in the **Programs/All Programs** menu.
- 10. See "*Bluetooth Networking Setup*" *on page* 7 48 for information on Bluetooth networking.

*Note to achieve high speed data transfer both the Bluetooth and WLAN modules must be powered ON (see sidebar and page 7 - 46).

Bluetooth Module 7 - 45

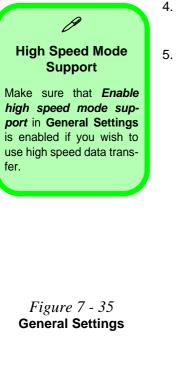
Bluetooth & WLAN Combo Settings

This information applies to the combo Bluetooth and WLAN module only.

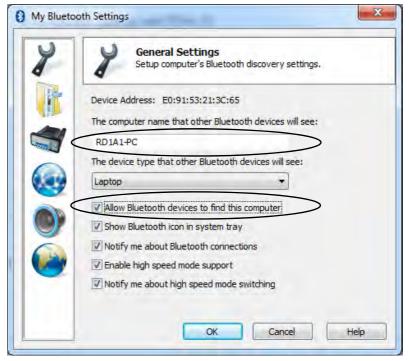
- 1. Make sure the Bluetooth module is powered on.
- 2. Double-click the **My Bluetooth** application on the desktop (or access it from the **Programs/All Programs** menu).
- 3. Click My Bluetooth Settings (menu heading).



Figure 7 - 34 My Bluetooth Settings



- Click General Settings to change the computer name that other Bluetooth devices will see, and click the tickbox to Allow Bluetooth devices to find this computer.
- Click **OK** to confirm the settings.



- 6. Click File Transfer Settings it to Enable sharing of my files with other Bluetooth devices.
- 7. Click **OK** to confirm the settings.

| 8 My Blueto | oth Settings File Transfer Settings Set the folder location for incoming files. |
|-------------|---|
| | Store received files in this folder: C: \Users\RD1A1\Documents\My Received Files Browse |
| | CK Cancel Help |



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Bluetooth Networking Setup

This information applies to the combo Bluetooth and WLAN module only.

- 1. Make sure the Bluetooth module is powered on.
- 2. Double-click the **My Bluetooth** application on the desktop (or access it from the **Programs/All Programs** menu).
- 3. Click My Bluetooth Settings (see Figure 7 34 on page 7 45).



Figure 7 - 37 **Network Settings**

- 4. Click Network Settings (make sure the Bluetooth module is powered on.
- 5. Click Enable Bluetooth Network and click OK.
- 6. A message will appear in the taskbar to confirm that the network driver has been installed.

Bluetooth & WLAN Combo Module Configuration

Setup your Bluetooth Device so the Computer Can Find it

- 1. Turn your Bluetooth device (e.g. PDA, mobile phone etc.) on.
- 2. Make the device discoverable (to do this check your device documentation).

To Turn the Bluetooth Module On

1. Press the **Fn + F12** key combination to power on the Bluetooth module.

To Add a Bluetooth Device

- 1. Double-click the **My Bluetooth** application on the desktop (or access it from the **Programs/All Programs** menu).
- 2. Double-click the device you want to pair with the computer (if no devices appear press **F5** or click the **Refresh** button to search for devices).





Figure 7 - 39 Bluetooth Device Options 3. You will then be presented with a menu of options to select from.



4. Click the appropriate button to connect to the device.

- 5. You may need to allow the connection from your device, and you will then need to provide a passcode from the device.
- 6. You can then enter the passcode on the computer and click **OK** to establish the connection.



Figure 7 - 40 **Bluetooth Pairing Code & Connection** Established

Add a Device

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Click Start, and click Control Panel and then click Devices and Printers (Hardware and Sound). Click Add a device to search for any available Bluetooth devices.

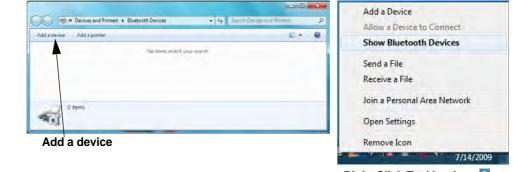
Bluetooth Configuration in Windows 7

Setup your Bluetooth Device so the Computer Can Find it

- 1. Turn your Bluetooth device (e.g. PDA, mobile phone etc.) on.
- 2. Make the device discoverable (to do this check your device documentation).

To Turn the Bluetooth Module On

- 1. Press the **Fn + F12** key combination to power on the Bluetooth module.
- 2. A Bluetooth icon 📓 will appear in the taskbar.
- 3. You can then do any of the following to access the **Bluetooth Devices** control panel.
- Double-click the taskbar icon 🕈 to access the Bluetooth Devices control panel.
- Click/Right-click the taskbar icon 📓 and choose an option from the menu.

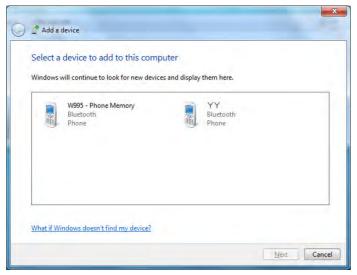


Right-Click Taskbar Icon 👪

Figure 7 - 41 Bluetooth Devices & Click Icon Menu

To Add a Bluetooth Device

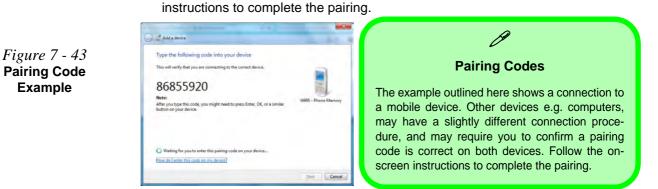
- 1. Access the Bluetooth Devices control panel and click Add a device.
- 2. Double-click the device you want to pair with the computer.



Pairing Options If a device has been previously connected then the pairing option menu will appear when you attempt subsequent connections. You can choose to have the computer create a pairing code for you, use the device's existing pairing code or you can pair certain devices without using a code.

> *Figure 7 - 42* Add a Device

3. On first connection the computer will provide you with a pairing code to be entered onto the device.



- 5. *Windows* will check to see if any drivers are required to complete the pairing.
- 6. Follow any on-screen instructions on the computer if device drivers are required to be installed.

Enter the code into your Bluetooth enabled device and follow any on-screen

7. Click Close.

4.

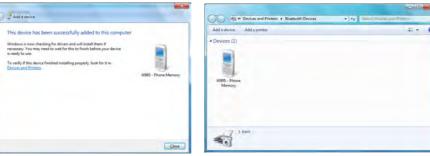


Figure 7 - 44 Pairing Complete & Bluetooth Device Enabled

To Change Settings for the Bluetooth Device

- 1. Click the taskbar icon and select Show Bluetooth Devices.
- 2. Right-click on the device you want to change and click **Properties** to:
- Change the name of the device (click Bluetooth, type a new name and click OK).
- Enable/Disable a service (click Services, clear/tick the check box next to the service and click OK).

To Make your Computer Discoverable to Bluetooth Devices

- 1. Click the taskbar icon and select **Open Settings**.
- 2. Click **Options**, and make sure that **Allow Bluetooth devices to find this computer** check box (**Discovery**) has a tick inside it.
- 3. Make sure that the *Alert me when a new Bluetooth device wants to connect* check box (**Connections**) has a tick inside it, if you want to be notified when a Bluetooth device wants to connect.

| Blueto | oth Settings | | - |
|---------|---------------|---|-------|
| Options | COM Ports | Hardware | |
| Disc | overv | | |
| 1 | Allow Blueto | oth devices to find this computer | |
| 4 | | t your privacy, select this check box only when a Bluetooth device to find this computer. | |
| Con | nections | | |
| 3 | Allow Blueto | oth devices to connect to this computer | |
| 12 | Alert me who | en a new Bluetooth device wants to connect | |
| J Sho | w the Bluet | ooth icon in the gotification area | |
| Chang | e settings fo | n à Bustouth enabled deux s. Restore Default | 3 |
| _ | | OK Cancel | Apply |

Bluetooth Help

To get help on Bluetooth configuration and settings, select **Help and Support** from the **Start** menu. Type Bluetooth in the **Search Help** box, and select an item from the returned search results to get more information.

Figure 7 - 45 Bluetooth Settings -Options

Chapter 8: Troubleshooting

Overview

Should you have any problems with your computer, before consulting your service representative, you may want to try to solve the problem yourself. This chapter lists some common problems and their possible solutions. This can't anticipate every problem, but you should check here before you panic. If you don't find the answer in these pages, make sure you have followed the instructions carefully and observed the safety precautions in the preface. If all else fails, talk to your service representative. You should also make a record of what happened and what remedies you tried.

Of course, if something goes wrong, it will happen at the most inconvenient time possible, so you should preview this section just in case. If, after you've tried everything, and the system still won't cooperate, try turning it off for a few minutes and then rebooting. You will lose any unsaved data, but it may start working again. Then call your service representative.

Troubleshooting

Basic Hints and Tips

Many of the following may seem obvious but they are often the solution to a problem when your computer appears not to be working.

- **Power** Is the computer actually plugged into a working electrical outlet? If plugged into a **power strip**, make sure it is actually working. Check the **LED Indicators** (see *Table 1 3*, *on page 1 10*) to see the computer's power status.
- Connections Check all the cables to make sure that there are no loose connections anywhere.
- Power Savings Make sure that the system is not in Hibernate or Sleep mode by pressing the keys configured in your *Power Options* (see "Configuring the Power Buttons" on page 3 8/"Configuring the Power Button" on page D 23), the Fn + F4 key combination, or power button to wake-up the system.
- **Brightness** Check the brightness of the screen by pressing the **Fn** + **F8** and **F9** keys to adjust the brightness.
 - Display Choice Press Fn + F7 to make sure the system is not set to "external only" display.
- Boot Drive Make sure there are no optical media and/or USB storage devices in any connected drive when you start up your machine (this is a common cause of the message "Invalid system disk Replace the disk, and then press any key" / "Remove disks or other media. Press any key to restart").

Backup and General Maintenance

- Always **backup** your important data, and keep copies of your OS and programs safe, but close to hand. Don't forget to note the **serial numbers** if you are storing them out of their original cases, e.g. in a CD wallet.
- Run **maintenance programs** on your hard disk and OS as often as you can. You may schedule these programs to run at times when you are not using your computer. You can use those that are provided free with your OS, or buy the more powerful dedicated programs to do so.
- Write down your passwords and keep them safe (away from your computer). This is especially important if you choose to use a Supervisor password for the BIOS (see "The Power-On Self Test (POST)" on page 5 2).
- Keep copies of vital settings files such as network, dialup settings, mail settings etc.(even if just brief notes).

Warranty

The CPU is not a user serviceable part. Opening this compartment, or accessing the CPU in any way, may violate your warranty.

Troubleshooting

Viruses

- Install an **Anti-Virus** program and keep the **definitions file** (the file which tells your program which viruses to look for) up to date. New computer viruses are discovered daily, and some of them may seriously harm your computer and cause you to lose data. **Anti-Virus** programs are commercially available and the **defini-tions file updates** are usually downloadable directly from the internet.
- Be careful when opening e-mail from sources you don't know. **Viruses** are often triggered from within **e-mail attachments** so take care when opening any attached file. You can configure most **Anti-Virus** programs to check all **e-mail attachments**. **Note**: You should also beware of files from people you know as the virus may have infected an **address book** and been automatically forwarded without the person's knowl-edge.
- Keep a "Bootable CD-ROM/DVD-ROM/USB storage device" (this CD/DVD/USB device provides basic information which allows you to startup your computer) handy. You may refer to your OS's documentation for instructions on how to make one, and many Anti-Virus programs will also provide such a disk (or at least instructions on how to make one).

Upgrading and Adding New Hardware/Software

- Do not be tempted to make changes to your **Windows Registry** unless you are very sure of what you are doing, otherwise you will risk severely damaging your system.
- Don't open your computer or undertake any repair or upgrade work if you are not comfortable with what you are doing.
- Read the **documentation**. We can assume, since you are reading this that you are looking at the computer's manual, but what about any new peripheral devices you have just purchased? Many problems are caused by the installation of new hardware and/or software. Always refer to the documentation of any new hardware and/or software, and pay particular attention to files entitled "**READ ME**" or "**READ ME FIRST**".
- When installing a new device always make sure the device is powered on, and in many cases you will need to restart the computer. Always check that all the cables are correctly connected.
- Make sure you have installed the **drivers** for any new hardware you have installed (latest **driver files** are usually available to download from vendor's websites).

Troubleshooting

- Thoroughly check any **recent changes** you made to your system as these changes may affect one or more system components, or software programs. If possible, go back and undo the change you just made and see if the problem still occurs.
- Don't over complicate things. The less you have to deal with then the easier the source of the problem may be found; **Example** if your computer has many devices plugged into its ports, and a number of programs running, then it will be difficult to determine the cause of a problem. Try disconnecting all of the devices and restarting the computer with all the peripheral devices unplugged. A process of elimination (adding and removing devices and restarting where necessary) will often find the source of a problem, although this may be time consuming.

Problems and Possible Solutions

| Problem | Possible Cause - Solution |
|--|--|
| You turned on the power but it doesn't work. | Battery missing / incorrectly installed. Check the battery bay, make sure the battery is present and seated properly (the design of the battery only allows it to go in one way). Make sure there's nothing interfering with the battery contacts. |
| The battery LED power indicator [], is blinking orange. | Low Battery. Plug in the power source. If the computer doesn't start up immediately, turn it off then on again. |
| You are losing battery power too quickly. | The system is using too much power. If your OS has a Power Options plan (see "Power Plans" on page 3 - 4/"Power Schemes" on page D - 19) check its settings. You may also be using a USB device/external device that is drawing a lot of power. |
| Actual battery operating time is shorter than expected. | The battery has not been fully discharged before being recharged. Make sure the battery is fully discharged and recharge it completely before reusing (see "Battery FAQ" on page 3 - 15). |
| | <i>Power Options have been disabled.</i> Go to the Control Panel in <i>Windows</i> and re-enable the options. |
| | A peripheral device is consuming a lot of power. Turn off the unused device to save power. |

Troubleshooting

| Problem | Possible Cause - Solution |
|-------------------------------------|---|
| The computer feels too hot . | Make sure the computer is properly ventilated and the Vent/Fan intakes are not blocked. If this doesn't cool it down, put the system into Hibernate mode or turn it off for an hour. Make sure the computer isn't sitting on a thermal surface (see "Overheating" on page 1 - 11). Make sure you're using the correct adapter. |
| | Make sure that your notebook is completely powered off before putting it into a travel bag (or any such container). Putting a notebook which is powered on in a travel bag may cause the Vent/Fan intakes to be blocked. |
| Nothing appears on screen. | The system is in a power saving mode. Toggle the sleep/resume key combination, Fn + F4 (see <i>"Resuming Operation" on page 3 - 9</i>). |
| | The screen controls need to be adjusted. Toggle the screen control key combinations $Fn + F8/F9$. If you're connected to an external monitor, make sure it's plugged in and turned on. You should also check the monitor's own brightness and contrast controls. |
| | <i>The computer is set for a different display.</i> Toggle the screen display key combination, Fn + F7 . If an external monitor is connected, turn it on. |
| | The screen saver is activated. Press any key or touch the TouchPad. |

| Problem | Possible Cause - Solution | | |
|--|---|--|--|
| No image appears on the external monitor I have plugged in and powered on. | | | |
| You forget the boot password . | If you forget the password, you may have to discharge the battery of the CMOS. Contact your service representative for help. | | |
| アassword Warning If you choose to set a boot password, NEVER forget your password. The consequences of this could be serious. If you cannot remember your boot password you must contact your vendor and you may lose all of the information on your hard disk. | | | |
| The sound cannot be heard or the volume is very low . The volume might be set too low . Check the volume control in the Volum Control Panel in the Windows taskbar, or use the key combination Fn + F5 a F6 (see "Function/Hot Key Indicators" on page 1 - 9) to adjust. | | | |
| Audio cannot be recorded from the built- in or external microphone. The audio recording options need to be configured from the VIA HD Audio Deck/Realtek HD Audio Manager. See "Audio Features" on page 2 - "Audio Features" on page D - 5 for configuration information, and " Camera Audio Setup" on page 7 - 10 for information on recording audio from the PC Camera. | | | |

| Problem | Possible Cause - Solution | | |
|--|---|--|--|
| Unwelcome numbers appear when typing. | Check that Num Lock is not turned ON . | | |
| | Ø Other Keyboards | | |
| If your keyboard is damaged or you just want to make a change, you can use any standard USB keyboard. The system will detect and enable it automatically. However special functions/hot keys unique to the system's regular keyboard may not work. | | | |
| The system freezes or the screen goes dark. | The system's power saving features have timed-out. Use the AC/DC adapter, press the sleep ($Fn + F4$) key combination, or press the power button if no LEDs are lit. | | |
| The system never goes into a power saving mode. | Power Options features are not enabled. Go to the <i>Windows</i> Power Options menu and enable the features you prefer (see " <i>Power Plans</i> " on page 3 - 4/ " <i>Power Schemes</i> " on page D - 19). | | |
| The Wireless LAN or Bluetooth modules cannot be detected. | The modules are off. Check the LED indicators (1) and/or function key indicator to see if the WLAN or Bluetooth module is on or off (see <i>Table 1 - 3, on page 1 - 10</i>). If the LED indicator is off, then press the Fn + F11 (WLAN) or Fn + F12 (Bluetooth) key combination(s) in order to enable the modules (see <i>"Function/ Hot Key Indicators" on page 1 - 9/ "Function/Hot Key Indicators" on page D - 4</i>). | | |

| Problem | Possible Cause - Solution |
|---|--|
| The PC Camera module cannot be detected. | The module is off. Press the Fn + F10 key combination in order to enable the module (see <i>"Function/Hot Key Indicators" on page 1 - 9/"Function/Hot Key Indicators" on page D - 4</i>). Run the camera application to view the camera picture. |
| The Wireless LAN, Bluetooth or PC Camera modules cannot be configured. | The driver(s) for the module(s) have not been installed. Make sure you have installed the driver for the appropriate module (see the instructions for the appropriate module in <i>"Modules & Options" on page 7 - 1</i>). |
| A file cannot be copied to/from a connected Bluetooth device. | The transfer of data between the computer and a Bluetooth enabled device is supported in one direction only (simultaneous data transfer is not supported). If you are copying a file from your computer to a Bluetooth enabled device, you will not be able to copy a file from the Bluetooth enabled device to your computer until the file transfer process from the computer has been completed |
| The Wireless LAN indicators S S S S A show that the WLAN module is powered on, however the module does not connect. | The WLAN module is turned off in the Windows Mobility Center. The computer's wireless function keys will not function properly if Wireless is turned OFF in the Windows Mobility Center control panel. Make sure that Wireless is ON in the Mobility Center to ensure proper function key behavior (see "Wireless Hot Keys" on page 3 - 12). |
| The Card Reader/Network (LAN) Device does not appear in the Device Manager in <i>Windows</i> . | This is a power saving feature. When not in use the Card Reader/Network (LAN) Device will not appear in the Windows Device Manager as they are not consuming any power. However as soon as the Card Reader is reading from/ writing to an inserted card, or the LAN card is experiencing network activity, the device will reappear in the Windows Device Manager . |

Troubleshooting

| Problem | Possible Cause - Solution |
|---|---|
| I am sliding my finger up and down on the right side of the TouchPad to scroll a Window and the TouchPad does not respond . | There are different TouchPad versions available on this computer, and this version requires tapping/holding to scroll. Either tap repeatedly, or hold the finger down, at the top or bottom right of the touchpad (depending on the scrolling direction required) to scroll the window. |
| An external display is attached, but cannot be detected. | External display detection has been disabled in the BIOS. Check that detecting external CRTs has not been disabled in the BIOS. See "Detect External CRT (Advanced Menu > Advanced Chipset Control)" on page 5 - 8. |

Bluetooth Connection Problems

If you are experiencing problems connecting to some Bluetooth devices (in particular certain mobile phones and headsets) it maybe necessary to download and install the **Windows Mobile Device Center** software (for *Windows Vista* and *Windows 7*). Go to the Microsoft website and search for the **Microsoft Windows Device Center Driver for** *Windows Vista* (64-bit or 32-bit) and Windows 7 (64-bit or 32-bit), and then download the driver.

- 1. Install the *Microsoft Windows Device Center Driver* as appropriate for your operating system.
- 2. *Windows Vista* will automatically configure the driver for you, however *Windows 7* requires further configuration.
- 3. Make sure the Bluetooth device is powered on.
- 4. Go the *Windows 7* control panel and double-click **Device Manager** (Hardware and Sound > Devices and **Printers**).
- 5. **Bluetooth Peripheral Device(s)** will be listed under **Other Devices** (note this will only be listed if you have connected, or tried to connect to, a Bluetooth device previously).





8

Troubleshooting

- 6. Right-click Bluetooth Peripheral Device and click on Update Driver Software.
- 7. Click Browse my computer for driver software.
- 8. Click Let Me pick from a list of device drivers on my computer.

| 🐷 😳 Update Driver Software - Bluetooth Peripheral Drive | 🚱 🔄 Update Driver Software - Bluetooth Peripheral Device |
|---|---|
| How do you want to search for driver software? | Browse for driver software on your computer |
| Search automatically for updated driver software Windows will serch your computer and the Internet for the latest driver software for your dence, unless you've disabiled this feature in your device installation settings. | Sauch for driver coffmare in this location: ENLIGENT Scott Directments • If Jockub subfailders • |
| Bigowse my computer (b) all ver softwars Locate and install driver software manually. | Let not pres from street of unset stores and my computer The lat will show installed does sufface compatible with the device, and all down and any stores in the same cleary as the device. |
| Cancel | Net Conce |

Figure 8 - 2 - Browse my computer.../Let me pick from...

9. Select Bluetooth Radios from the list.



8 - 14 Bluetooth Connection Problems

- 10. A list of drivers will appear with Manufacturer on one side and Model in the other.
- Choose Microsoft Corporation (make sure you choose the full name Microsoft Corporation and do not choose Microsoft - Note that you must have installed the Microsoft Windows Device Center Driver for Microsoft Corporation to appear in the list).
- 12. Select Windows Mobile-based device support from the Model list.

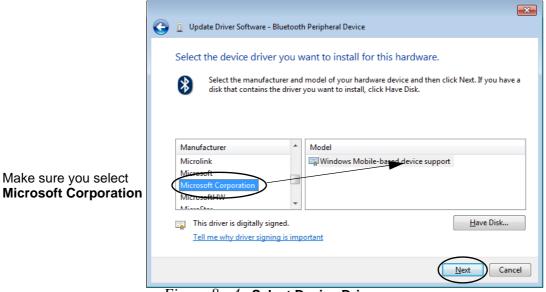


Figure 8 - 4 - Select Device Driver

- 13. Click Next > Yes and the driver will install.
- 14. Click **Close** to complete the installation.

Troubleshooting

- 15. The **Device Manager** should now display the **Windows Mobile-based device support** under **Bluetooth Radios**.
- 16. You will need to repeat the process for any other Bluetooth Peripheral Devices listed under Other Devices.

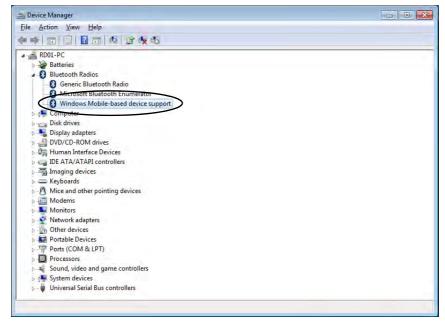


Figure 8 - 5 - Device Manager - Bluetooth Radio

Appendix A: Interface (Ports & Jacks) Overview

The following chapter will give a quick description of the interface (ports & jacks) which allow your computer to communicate with external devices, connect to the internet etc.

Notebook Ports and Jacks

| Item | Description |
|-----------------------|--|
| Card Reader Port | The card reader allows you to use some of the latest digital storage cards. Push the card into the slot and it will appear as a removable device. |
| DC-In Jack | Plug the supplied AC/DC adapter into this jack to power your computer. |
| External Monitor Port | This port allows you to connect an external monitor, or Flat Panel Display, to get dual video or simultaneous display on the LCD and external monitor/FPD. |
| Headphone-Out Jack | Headphones or speakers may be connected through this jack. Note : Set your system's volume to a reduced level before connecting to this jack. |
| Microphone-In Jack | Plug an external microphone in to this jack to record on your computer. |
| RJ-45 LAN Jack | This port supports LAN (Network) functions. Note: Broadband (e.g. ADSL) modems usually connect to the LAN port. |

| Item | Description |
|--------------------|---|
| Security Lock Slot | To prevent possible theft, a Kensington-type lock can be attached to this slot. Locks can be purchased at any computer store. |
| USB 2.0/1.1 Ports | These USB 2.0 compatible ports (USB 2.0 is fully USB 1.1 compliant) are for low-speed peripherals such as keyboards, mice or scanners, and for high-speed peripherals such as external HDDs, digital video cameras or high-speed scanners etc. Devices can be plugged into the computer, and unplugged from the computer, without the need to turn the system off (if the power rating of your USB device is 500mA or above, make sure you use the power supply which comes with the device). |

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Intel Video Driver Controls

Appendix B: Intel Video Driver Controls

The basic settings for configuring the LCD are outlined in "Video Features" on page 1 - 16.

Intel Video Driver Installation

Make sure you install all the drivers in the order indicated in *Table 4 - 1*, on page 4 - 3.

Video

- 1. Insert the *Device Drivers & Utilities + User's Manual disc* into your external optical device drive.
- 2. Click 2.Install VGA Driver > Yes.
- 3. Click **Next > Yes > Next > Next**.
- 4. Click **Finish** to restart the computer.

Dynamic Video Memory Technology

Intel[®] DVMT automatically and dynamically allocates as much (up to **384MB**) system memory (RAM) as needed to the video system (**the video driver must be installed**). DVMT returns whatever memory is no longer needed to the operating system.

DVMT Notes

DVMT is not local video memory.

DVMT is not user-configurable.

DVMT will not function in MS-DOS. DOS uses the legacy memory indicated.



tray icon go to the Intel(R) Graphics Media Accelerator Driver tab (in the Screen Resolution > Advanced options) and click the "Show Tray Icon" tickbox.

Figure B - 1 Intel GMA Control Panels

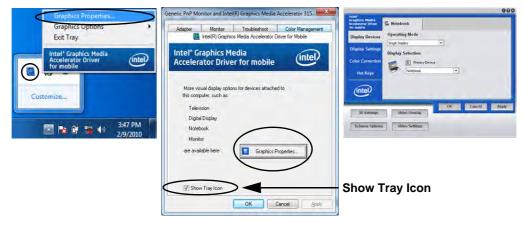
Intel GMA Driver for Mobile

Advanced video configuration options are provided by the Intel(R) Graphics Media Accelerator Driver for Mobile. To access the *Intel(R) Graphics Media Accelerator Driver for mobile* control panel:

- 1. Click Advanced settings in the Screen Resolution control panel in Windows.
- 2. Click the Intel(R)... tab and click Graphics Properties (button).

OR

- 3. Right-click the desktop and select **Graphics Properties** from the menu. OR
- 4. Double-click the Intel(R) GMA Driver for Mobile control panel in Windows.



You may make changes to the devices, color, schemes, **Hot Keys** etc. by clicking the appropriate menu item or button.



| tel' raphics Hedia celerator Driver r mobile | Ø Monitor | G Notebook | | |
|---|----------------|------------|-------------|----------|
| isplay Devices | Color: @ All | C Red | | |
| isplay Settings | | C Green | | |
| olor Correction | Gamma 1.0 | 10 0 | = 5.0 | |
| Hot Keys | Brightness : 0 | -60 - 0- | - 100 / | / |
| (intel) | Contrast : 50 | 40 0 | - 100 Resto | n Dala I |
| 30 Settings | Video Overl | OK | Cancel | Ap |





At least one other display must be attached in order to view multiple display selection options.

Β

Figure B - 2 Intel Graphics Media Accelerator Driver for mobile (Control Panel Tabs)



Application.exe

You will need to locate the actual **application executable (.exe) file**, not just the shortcut. To find the application rightclick its **shortcut** on the desktop click **Properties**. Click the **Shortcut** (tab) and see where the executable file is located by clicking the **Find Target** (button). Note the location and you will then be able to browse to this file.

Scheme Options

Use **Scheme Options** to configure quick settings for applications which require specific resolution and color settings in order to run properly e.g. games, multimedia programs. To set the scheme options:

- 1. Go to the **GMA for mobile** control panel (see page **B** 2).
- 2. Configure your display configuration, resolution etc. as per your requirements, from **Display Devices** (tab).
- 3. Click on Scheme Options (button).
- 4. Type a name for the scheme then click **Save**.
- 5. If you want to automatically launch an application when running the scheme click on **Browse** (button).
- 6. **Browse** to the executable file for the application you want to set the scheme for (see sidebar), and click **Open** to select it.
- 7. Click **Save** to save the settings (you can click in the "**Restore the display settings after exiting this application**" box to return to your original settings when you exit the program).
- 8. Click **OK** to exit the program.
- 9. You can run the scheme by clicking the taskbar icon and selecting the scheme from **Select Scheme**.



Figure B - 3 Select Scheme

Display Devices & Options

Besides the built-in LCD, you can also use an **external VGA monitor** (CRT) or **external Flat Panel Display** as your display device. A VGA monitor/Flat Panel Display connects to the external monitor port. The following display modes are available (if you are unable to detect an attached display, check that detecting external CRTs has not been disabled in the BIOS - see "*Detect External CRT (Advanced Menu > Advanced Chipset Control)*" on page 5 - 8).

| Intel Display Mode | Description |
|---|---|
| Single Display | One of the connected displays is used as the display device |
| Multiple Display - Intel(R) Dual Display Clone | Both connected displays output the same view and may be configured independently |
| Multiple Display - Extended Desktop | Both connected displays are treated as separate devices, and act as a virtual desktop |

Function Key Combination

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You can use the **Fn + F7** key combination to toggle through the display options:

- Notebook Only
- External Display Only
- Notebook + External Display

Make sure you give the displays enough time to refresh.

Table B - 1Display Modes

В

Attaching Displays

When you first attach an external display you may find that the desktop does not occupy the full screen area. Use either the display's auto adjust/configure controls, or the Intel(R) GMA Driver for Mobile control panel to configure the full screen display.



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At least one other display must be attached in order to view **Multiple Display** selection options.

Video Settings

Click Video Settings (button) in the Intel(R) GMA Driver for mobile control panel to access settings for Video Color Controls.

Figure B - 4 **Display Devices**

Attaching Other Displays

If you prefer to use a monitor or flat panel display, connect it to the external monitor port on the left of the computer.

To Enable Intel(R) Dual Display Clone Mode

- 1. Attach your external display to the external monitor port, and turn it on.
- 2. Go to the Intel(R) GMA Driver for mobile control panel and click Display Devices.
- 3. Click to choose Intel(R) Dual Display Clone (Operating Mode).
- 4. Click **Apply**, and **OK** to confirm the settings change.
- 5. Click **Display Settings** to adjust the settings for the attached devices.



B - 6 Attaching Other Displays

To Enable Extended Desktop Mode:

- 1. Attach your external display to the external monitor port, and turn it on.
- 2. Go to the Intel(R) GMA Driver for mobile control panel and click Display Devices.
- 3. Click to choose Extended Desktop (Operating Mode).
- 4. Click **Apply**, and **OK** to confirm the settings change.
- 5. Click **Display Settings** to adjust the settings for the attached devices.



Click the appropriate monitor icon and drag it to match the physical arrangement you wish to use (e.g. the secondary display may be extended left/right/above/below the primary display).

Click Display Settings to make any adjustments required.

Display Settings Extended Desktop

You can have different Colors, Screen Area and Monitor Refresh Rates for each display device **provided your monitor can support them**.

You can drag the monitor icons to match the physical layout of your displays. Icons and programs may also be dragged between the displays.

B

Figure B - 5 Extended Desktop Mode

Function Key Combination

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You can use the **Fn** + **F7** key combination to toggle through the display options:

- Notebook Only
- External Display Only
- Notebook + External Display

Make sure you give the displays enough time to refresh.

Figure B - 6 Screen Resolution Multiple Displays (Win 7)

Attaching Other Displays

Configuring an External Display in Windows 7

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Go to the Screen resolution control panel.
- 3. Click the **Detect** button.
- 4. The computer will then detect any attached displays.

| Change the ap | pearance of your display | |
|--|--|-----------------------------|
| | | Dete <u>c</u> t [dentify |
| Display; Resolution: A If your resolut Multiple displays; | 12: Multiple Monitors • 1024 × 600 • ton is below 1024 × 768, some items may not fit Duplicate these displays • | on the screen, |
| This is currently yo | C. C. P. Construction of the Construction of t | Advanced settings |
| Make text and oth | ector (or press the 🐉 key and tap P) er items larger or smaller ngs should I choose? | |

5. You can configure the displays from the **Multiple Displays** menu.

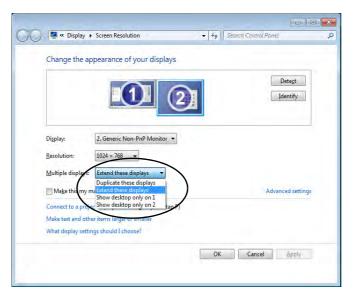


Figure B - 7 Screen Resolution Multiple Display Options (Win 7)

- Duplicate these displays Shows an exact copy of the main display desktop on the other display(s)
- Extend these displays Treats both connected displays as separate devices
- Show desktop only on 1/2 Only one of your displays is used.

Using the Windows Logo Key 😹 + P Key Combination to Switch Displays

You can also use the $\mathbf{a} + \mathbf{P}$ key combination to quickly change display configuration and modes (this is particularly useful when attaching a projector) in *Windows* 7.

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Press the $(\mathbf{x} + \mathbf{P})$ key combination.
- 3. An on-screen menu will pop up.
- 4. Use the cursor keys (or $\mathbf{z} + \mathbf{P}$) to select the appropriate configuration from the menu, and press Enter to confirm the selection.

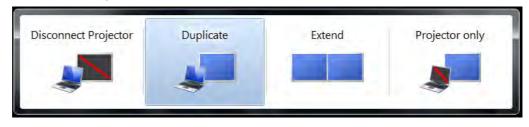


Figure B - 8 + P Display Configuration Selection (Win 7)

Appendix C: Specifications

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Latest Specification Information

The specifications listed in this Appendix are correct at the time of going to press. Certain items (particularly processor types/ speeds and CD/DVD device types) may be changed, delayed or updated due to the manufacturer's release schedule. Check with your service center for details.

Specifications

| Processor | Display | Video Adapter | |
|--|---|--|--|
| Intel® Atom® Processor N455 1.66 GHz , 512K On-die L2 Cache & 667MHz FSB, TDP 6.5W - BGA Package, 45nm (45 Nanometer) Process Technology Intel® Atom® Processor N475 | Models A & B: 10.1" (25.6cm) WSVGA (1024 * 600) 16:9 TFT LED Backlit Panel (3.6mm thick) Models C & D: 10.1" (25.6cm) WSVGA (1024 * 600) | Intel® GMA 3150 Integrated Video Intel® Dynamic Video Memory Technology Supporting Shared Memory of up to 384MB Supports Intel® Clear Video Technology Supports DirectX® 9.0 | |
| 1.83 GHz , 512K On-die L2 Cache & 667MHz FSB, TDP 6.5W - BGA Package, 45nm (45 Nanometer) Process Technology | 16:9 TFT LED Backlit Panel (5.2mm thick) Memory | BIOS One 8Mb SPI Flash ROM | |
| Intel® Atom® Processor N550 1.50 GHz, 1MB On-die L2 Cache & | Single DDR3 Data Channel One 204 Pin SO-DIMM Socket Supporting | Phoenix™ BIOS Storage | |
| 667MHz FSB, TDP 8.5W - BGA Package, 45nm (45 Nanometer) Process Technology | DDRIII (DDR3) 1066/1333MHz Memory (Real operational frequency depends on the processor FSB) | One Changeable 2.5" 9.5 mm (h) SATA (Serial) Hard Disk Drive External Super-Multi Optical Device Drive | |
| Core Logic | Memory Expandable up to 2GB | with USB Interface (Factory Option) | |
| Intel® NM10 Express Chipset | (Using 1GB/2GB Modules) | Security | |
| | | Kensington Lock BIOS Password | |

Specifications

| | Card Reader |
|--|--|
| 10Mb/100Mb Base-TX Ethernet LAN 802.11b/g/n Wireless LAN Half Mini-Card Module (Factory Option) | Embedded Multi-In-1 Card Reader - MMC/ RS MMC - SD/ Mini SD / SDHC |
| UMTS/HSPDA-based 3.75G/HSPA (Half Mini-Card) Module (Factory Option) Bluetooth v2.1 + EDR Module (Factory | - MS/ MS Pro/ MS Duo Note: RS MMC/ Mini SD/ MS Duo Cards require a PC adapter |
| Option) Combo WLAN (802.11b/g/n) and Bluetooth v3.0 + HS Half Mini-Card | Slot Two Mini-Card Slots (USB & PCle) |
| Module with PCIe & USB Interface (Factory Option for Model D Computers) | Slot 1: for WLAN 802.11 b/g/n Module (Half Mini-Card) with PCIe Interface OR |
| 300K Pixel USB PC Camera Module 1.3M Pixel USB PC Camera Module (Factory Option) | Combo WLAN (802.11b/g/n) and Bluetooth v3.0 + HS Half Mini-Card Module with PCIe & USB Interface (Factory Option for Model D |
| Operating Systems Windows® 7 (32-bit Only) | Computers) Slot 2: for UMTS/HSPDA-based 3.75G/ HSPA Module (Half Mini-Card) with USB |
| | 802.11b/g/n Wireless LAN Half Mini-Card Module (Factory Option) UMTS/HSPDA-based 3.75G/HSPA (Half Mini-Card) Module (Factory Option) Bluetooth v2.1 + EDR Module (Factory Option) Combo WLAN (802.11b/g/n) and Bluetooth v3.0 + HS Half Mini-Card Module with PCIe & USB Interface (Factory Option for Model D Computers) 300K Pixel USB PC Camera Module 1.3M Pixel USB PC Camera Module (Factory Option) Operating Systems |

Specifications

| Power | Management |
|-------|------------|
|-------|------------|

Wake On LAN Wake On USB (*Windows 7 Only*) Energy Star 5.0 Compliant

Power

Full Range AC/DC Adapter AC Input: 100 - 240V, 50 - 60Hz DC Output: 19V, 1.58A (30 Watts)

Battery

Removable 3 Cell Smart Lithium-Ion Battery Pack 24.42WH

Removable 6 Cell Smart Lithium-Ion Battery Pack 48.84WH (**Factory Option**)

Design Feature

Magic Of Film Art II Changeable LCD Back Covers (Factory Option for Model B Computers)

IMR (Injected Molded Resin) LCD Back Covers (Factory Option for Model C Computers)

Environmental Spec

TemperatureOperating:5°C - 35°CNon-Operating:-20°C - 60°CRelative HumidityOperating:20% - 80%Non-Operating:10% - 90%

Dimensions & Weight

Model A:

266mm (w) * 185mm (d) * 18.5 - 25.4mm (h) 0.94kg with 3 Cell Battery

Model B:

266mm (w) * 185mm (d) * 18.5 - 26.6mm (h) 0.97kg with 3 Cell Battery

Models C & D:

266mm (w) * 185mm (d) * 19.7 - 27.1mm (h) 0.96kg with 3 Cell Battery

Appendix D: Windows XP Information

This Appendix contains information (including control panel information, driver installation etc.) for users of the *Windows XP OS*.

Windows XP Start Menu & Control Panel

Most of the control panels, utilities and programs within *Windows XP* (and most other *Windows* versions) are accessed from the **Start** menu. When you install programs and utilities they will be installed on your hard disk drive, and a shortcut will usually be placed in the Start menu and/or the desktop. You can customize the look of the **Start** menu by right-clicking the **Start** menu and selecting **Properties** from the menu.



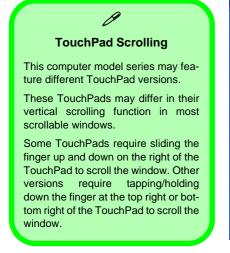
Figure D - 1 - Start Menu & Control Panel

In many instances throughout this manual you will see an instruction to open the **Control Panel**. The **Control Panel** is accessed from the **Start** menu, and it allows you to configure the settings for most of the key features in Windows (e.g. power, video, network, audio etc.). Windows XP provides basic controls for many of the features, however many new controls are added (or existing ones are enhanced) when you install the drivers. To see all controls it may be necessary to toggle off Category View.

TouchPad and Buttons/Mouse

The TouchPad is an alternative to the mouse; however, you can also add a mouse to your computer through one of the USB ports. The TouchPad buttons function in much the same way as a two-button mouse.

Once you have installed the TouchPad driver (see "*TouchPad*" on page D - 31) you can configure the functions by double-clicking the TouchPad driver icon and on the **taskbar**. You may then configure the TouchPad tapping, buttons, scrolling, pointer motion and sensitivity options to your preferences. See "*Finger Sensing Pad Configurator*" on page 2 - 8 and "*Gestures*" on page 2 - 9 for further information.



| se Properties | | ? 🞽 | Mouse Properties | | |
|-------------------|--|--------------------|------------------|---------------------------|--------------------|
| Wheel | Hardware | Finger Sensing Pad | Buttons | Pointers | Pointer Options |
| Buttons | Pointers | Pointer Options | Wheel | Hardware | Finger Sensing Pad |
| Button configurat | ion | | Scrolling | | |
| Switch primary | y and secondary buttons | 6 | Roll the | wheel one notch to scroll | 5 |
| | box to make the button on t use for primary functions suc dragging. | | © (The | following number of lines | at a time: |
| ouble-click spee | ed | | ⊖ <u>o</u> ne | scieen al a unie | |
| | folder to test your setting. If the period of the set o | | | | |
| ClickLock | | | | | |
| | Lock | Settings. | | | |
| | ighlight or drag without holdir iefly press the mouse button. ain. | | | | |
| | ОК | Cancel Apply | - | OK | Cancel Ap |

Figure D - 2 - Mouse Properties

Function/Hot Key Indicators

The function keys (F1 - F12 etc.) will act as hot keys when pressed while the **Fn** key is held down.

| Keys | Function | | Keys | Fur | nction |
|--|---|-----------|------------------|----------------------------------|-----------|
| Fn + ~ | Play/Pause (in Audio/Video Programs) | | Fn + F7 | Displa | ay Toggle |
| Fn + | 3.75G Module Power Toggle | 6 | Fn + F8/F9 | Brightness Decrease/ Increase | |
| Fn + F1 | TouchPad Toggle | | Fn + F10 | PC Camera Power Toggle | |
| Fn + F2 | Turn LCD Backlight Off (Press a key to or use TouchPad to turn on) | | Fn + F11 | *WLAN Module Power Toggle | |
| Fn + F3 | Mute Toggle | | Fn + F12 | Bluetooth Module Power Toggle | |
| Fn + F4 | Sleep Toggle | | Fn + NumLk | Number Lock Toggle | |
| Fn + F5/F6 | Volume Decrease/ Increase | | Fn + ScrLk | Scroll Lock Toggle | |
| Make sure the Hot Key driver is installed - see "Hot Key" on page D - 31. *Make sure that Wireless is ON in the Windows Mobility Center to ensure proper wireless function key behavior (see page 3 - 12). | | Caps Lock | Caps Lock Toggle | | |

Table D - 1 - Function & Hot Key Indicators

Audio Features

This computer will feature **one** of two possible audio systems depending on your purchase configuration. See the appropriate following pages for audio control panel information.

A

Sound Volume Adjustment How high the sound volume can be set depends on the setting of the volume control within *Windows* (and the volume control

function keys on the computer). Click the Volume icon on the task-

Volume

Mute

bar to check the setting.

VIA HD Audio Deck

You can configure the audio options on your computer from the **Sound** control panel in *Windows*, from the **HD VDeck** icon on the desktop mathematical or **VIA HD Audio Deck** control panel and .

The volume may also be adjusted by means of the Fn + F5/F6 key combination.

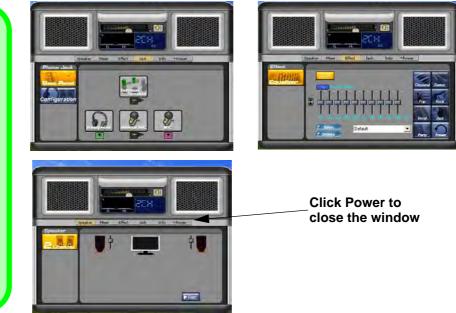


Figure D - 3 - VIA HD Audio Configuration Menus

Realtek HD Audio Manager

You can configure the audio options on your computer from the **Sounds and Audio Devices** O *Windows* control panel, or from the **Realtek HD Audio Manager** O icon in the taskbar/control panel (this will bring up the Realtek Audio Configuration menus). The volume may also be adjusted by means of the **Fn** + **F5/F6** key combination.



Figure D - 4 - Realtek Audio Configuration Menus

Video Features

You can switch display devices, and configure display options, from the **Display Properties** control panel in *Windows* as long as the appropriate **video driver** is installed.

To access Display Properties in Windows:

- 1. Click Start, point to Settings and click Control Panel (or just click Control Panel).
- 2. Double-click Display (icon) In the Appearances and Themes category.
- 3. Click Settings (tab) in the Display Properties dialog box.
- 4. Move the slider to the preferred setting in Screen resolution (1) (*Figure D 5 on page D 9*).
- 5. Click the arrow, and scroll to the preferred setting in Color quality (2) (Figure D 5 on page D 9).
- 6. You can also access **Display Properties** by right-clicking the desktop and scrolling down and clicking **Properties**. Click **Settings** (tab) and adjust as above.
- 7. Open the **Display Properties** control panel, and click **Advanced** (button) **()** (*Figure D 5 on page D 9*) to bring up the Advanced properties tabs.
- 8. Click the Intel(R) Graphics Media Accelerator Driver for Mobile tab, and click Graphics Properties (button) to make any video adjustments you require.
- 9. You can also access **Graphics Properties** from the *Windows* Intel(R) GMA Driver for Mobile control panel, or from the taskbar icon .

Dynamic Video Memory Technology

Intel[®] DVMT automatically and dynamically allocates as much (up to **384MB**) system memory (RAM) as needed to the video system (**the video driver must be installed**). DVMT returns whatever memory is no longer needed to the operating system.

Windows XP Information

(intel)

Display & Graphics Properties

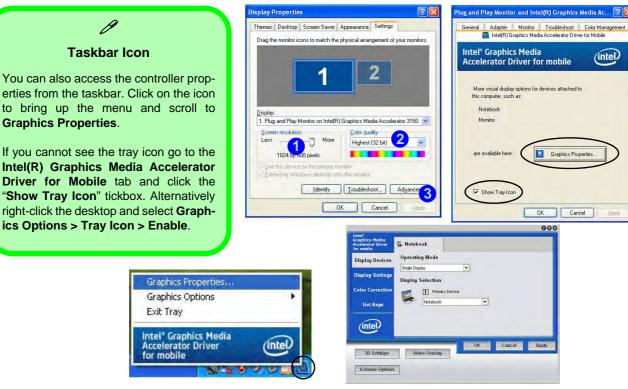


Figure D - 5 - Display & Graphics Properties

Windows XP Information

You may make changes to the devices, color, schemes, **Hot Keys** etc. by clicking the appropriate menu item or button.

| 00 | | |
|---|--|---|
| Intel [®] Graphics Media Accelerator Driver for mobile | Reter Geschaft Media Ar models Ar models | Ø |
| Display Settings Display Selection Display Settings | Disptay Davices Color © All C Roé Disptay Saitings C Disp | Function Key Combination |
| Color Correction Hot Keys (intel) | Color Correction Gemma 1.0 1.0 D Hot Keys Brightness -0 -0 100 (intel) Contrast :50 40 -0 100 | You can use the Fn + F7 key combination to toggle through the display options: |
| 30 Settings Video Overlay OK Cancel Apply Scheme Options | 20 Settlegs Video Overlay OK Cancel Apply Scheme Options | Notebook Only External Display Only Notebook + External Display |
| 00 | | Make sure you give the displays enough time to refresh. |
| Intel Graphics Hedia Accelerater Driver Hot Keys | Graphics Media Accelerato Driver 🐲 Notebook and Monitor | chough time to remean. |
| Bispiny Devices 🖉 Enable Hot Keys | Ter modele Display Devices Operating Mode | Help Menus |
| Action Net Keys Display Settings Endels Monthools Color Correction Endels Monthools Hot Keys Color Gambels Provides Acploided | Display Sattings Color Correction Hot Reys Hot Reys | Right-click on many of the items in the tabs to bring up the "What's This?" button. |
| Intel Renda Disa. | Spondary Creat Model Inform Model Inform Model The data of decordary Selective data of decordary | Click the "What's This?" button |
| 20 Settings Video (berting) Scheme Options | 30 Settings Vilier (Average down for discovered by Apply system: Scherze Options | to bring up the help menu. |

Figure D - 6 - Intel GMA Driver for Mobile

Display Devices & Options

Besides the built-in LCD, you can also use an **external VGA monitor** (CRT) or **external Flat Panel Display** as your display device. A VGA monitor/Flat Panel Display connects to the external monitor port. The following display modes are available.

| Intel Display Mode | Description |
|---|---|
| Single Display | One of the connected displays is used as the display device |
| Multiple Display - Intel(R) Dual Display Clone | Both connected displays output the same view and may be configured independently |
| Multiple Display - Extended Desktop | Both connected displays are treated as separate devices, and act as a virtual desktop |

Table D - 2 - **Display Options**

Windows XP Information

Display Selection

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At least one other display must be attached in order to view multiple **Display Selection** options.

BIOS Setting

Make sure that you have not disabled external display detection in the BIOS if attempting to connect external displays (see *Page 5 - 8*).

Figure D - 7 **Display Devices**

Attaching Other Displays

If you prefer to use a monitor or flat panel display, connect it to the external monitor port on the left of the computer.

- 1. Attach your external display to the external monitor port, and turn it on.
- 2. Go to the Intel(R) GMA Driver for mobile control panel and click Display Devices.
- 3. Click to choose the display option from the **Operating Mode** menu.
- 4. Click Apply, and OK to confirm the settings change.



To Enable Intel(R) Dual Display Clone (Intel GMA)

- 1. Attach your external display to the external monitor port, and turn it on.
- 2. Go to the Intel(R) GMA Driver for mobile control panel and click Display Devices.
- 3. Click to choose Intel(R) Dual Display Clone (Operating Mode).
- 4. Click **Apply**, and **OK** to confirm the settings change.
- 5. Click **Display Settings** to adjust the settings for the attached devices.

| Intel [®] Graphics Media Accelerator Driver for mobile | 🐲 Notebook and Monitor | |
|--|------------------------|--------------|
| Display Devices | Operating Mode | |
| Display Settings | Display Selection | |
| Color Correction | Primary Device | |
| Hot Keys | Notebook | |
| (intel) | Monitor | |
| 3D Settings | OK O | Cancel Apply |
| Scheme Options | - <u> </u> | |

Figure D - 8 - Display Devices - Intel(R) Dual Display Clone

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Windows XP Information

To Enable Extended Desktop (Intel GMA)

- 1. Attach your external display to the external monitor port, and turn it on.
- 2. Go to the Intel(R) GMA Driver for mobile control panel and click Display Devices.
- 3. Click to choose Extended Desktop (Operating Mode).
- 4. Click **Apply**, and **OK** to confirm the settings change.
- 5. Click **Display Settings** to adjust the settings for the attached devices.

Display Settings Extended Desktop

B

You can have different Colors, Screen Area and Monitor Refresh Rates for each display device **pro**vided your monitor can support them.

You can drag the monitor icons to match the physical layout of your displays. Icons and programs may also be dragged between the displays.



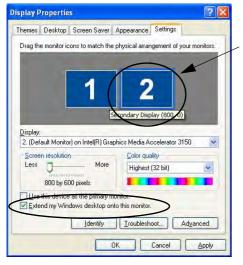
Click the appropriate monitor icon and drag it to match the physical arrangement you wish to use (e.g. the Secondary Device may be extended left/right/above/ below the Primary Device).

Click Display Settings to make any adjustments required.

Figure D - 9 - Display Devices - Extended Desktop

To Enable Extended Desktop (Windows Display Properties)

- 1. Attach your external monitor to the external monitor port, and turn it on.
- 2. Click Start, point to Settings (or click Control Panel) and click Control Panel (if you are in Category View choose Appearance and Themes).
- 3. Double-click **Display** (icon).
- 4. In the **Display Properties** dialog box, click **Settings** (tab).
- 5. Click the monitor icon (e.g. 2), and make sure you have checked "Extend my Windows desktop onto this monitor." and click Apply.



Click the appropriate monitor icon (e.g. 2) to be able to select the option to extend the desktop on to it.

In this example the Primary Display **1** is on the left, the Secondary Display **2** is on the right.

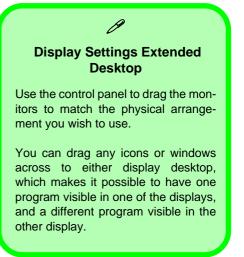


Figure D - 10 - Display Properties (Extended Desktop)

Windows XP Information

OS Note

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Power management functions will vary slightly depending on your operating system. For more information it is best to refer to the user's manual of your operating system.

(Note: All pictures used on the following pages are from the *Windows XP* OS.)

Power Management Features

To conserve power, especially when using the battery, your computer uses the ACPI power management system. Power management conserves power by controlling individual components of the computer (the monitor and hard disk drive) or the whole system.

The **Power Options** control panel icon in *Windows* (see page D - 2) allows you to configure power management features for your computer. You may conserve power through individual components such as the monitor or hard disk, or you may use either **Stand by** or **Hibernate** mode to conserve power throughout the system.

Advanced Configuration and Power Interface

The **ACPI** interface provides the computer with enhanced power saving techniques and gives the operating system (OS) direct control over the power and thermal states of devices and processors. For example, it enables the OS to set devices into low-power states based on user settings and information from applications. ACPI is fully supported in *Windows XP*.

The Power Sources

The computer can be powered by either an AC/DC adapter or a battery pack.

AC/DC Adapter

Use only the AC/DC adapter that comes with your computer. The wrong type of AC/DC adapter will damage the computer and its components.

- 1. Attach the AC/DC adapter to the DC-in jack on the left of the computer.
- 2. Plug the AC power cord into an outlet, and then connect the AC power cord to the AC/DC adapter.
- 3. Raise the lid/LCD to a comfortable viewing angle.
- 4. Press the power button to turn "On".

Battery

The battery allows you to use your computer while you are on the road or when an electrical outlet is unavailable. Battery life varies depending on the applications and the configuration you're using. To increase battery life, let the battery discharge completely before recharging (see *"How do I completely discharge the battery?" on page D - 27*).

We recommend that you do not remove the battery. For more information on the battery, please refer to "*Battery Information*" *on page D - 24*.



Note that you should always shut your computer down by choosing the **Turn Off Computer** command from the **Start** menu in **Windows**. This will help prevent hard disk or system problems.

Turning on the Computer

Now you are ready to begin using your computer. To turn it on simply press the power button on the front panel.

When the computer is on, you can use the power button as a Stand by/Hibernate/ Shutdown hot-key button when it is pressed for less than **4 seconds** (pressing and holding the power button for longer than this will shut the computer down). Use **Power Options** in the *Windows* control panel to configure this feature.

P Forced Off

If the system "hangs", and the **Ctrl + Alt + Del** key combination doesn't work, press the power button for **4 seconds**, or longer, to force the system to turn itself off.

Power Button as Stand by or Hibernate Button

If you are using a fully ACPI-compliant OS, (such as Windows XP) you can use the OS's "Power Options" control panel to set the power button to send the system into Stand by or Hibernate mode (see your OS's documentation, or "Configuring the Power Button" on page D - 23 for details).

Power Schemes

You can set your computer to conserve power through individual components by means of **Power Schemes**. You can also adjust the settings for each scheme to set the monitor to turn off after a specified time, and the computer's hard disk motor to turn off if the hard disk drive has not been accessed for a specified period of time (if the system reads or writes data, the hard disk motor will be turned back on). The schemes may also be set to set a specified time for the system to enter **Stand by** or **Hibernate** modes (see "*System Power Options*" on page D - 21).

| Calendaria and | | | | |
|-------------------------------------|--|----------|----------------------|---|
| | ver scheme with Note that chang cheme. | | | |
| Portable/Laptop | | | | ~ |
| Home/Office Desk Portable/Laptop | | | | - |
| vlax Battery Vhen computer is: | Plugger | din (| Bunning or batteries | 1 |
| urn off <u>m</u> onitor: | After 15 mins | * 1 | After 5 mins | ~ |
| um off hard disks: | After 30 mins | * | After 5 mins | ~ |
| ystem standby: | After 20 mins | v | After 5 mins | 2 |
| ystem hibernates: | After 3 hours | * | After 2 hours | ~ |

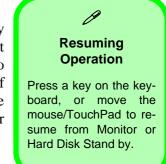


Figure D - 11 **Power Schemes**

Each *Windows* **Power Scheme** will also adjust the processor performance of your machine in order to save power. This is worth bearing in mind if you are experiencing any reduced performance (especially under DC/battery power).

Choose the **Home/Office Desk** scheme for maximum performance when the computer is powered from an AC power source. Choose the **Max Battery** scheme (bear in mind that this scheme may slow down the overall performance of the computer in order to save power) for maximum power saving when the computer is battery (DC power) powered. *Windows* will use **Portable/Laptop** as the default scheme.

System Power Options

You can use the system power options to stop the computer's operation and restart where you left off. This system features **Stand by** and **Hibernate** sleep mode levels (**Hibernate** mode will need to be enabled by clicking the option in the **Hibernate** tab in the **Power Options** control panel - see "*Hibernate*" on page D - 22).

Hibernate Mode vs. Shutdown

Hibernate mode and Shutdown are the same in that the system is off and you need to press the power button to turn it on. Their main difference is:

When you come back from hibernation, you can return to where you last left off (what was on your desktop) without reopening the application(s) and file(s) you last used.

You can use either method depending on your needs.

Stand by Mode vs. Hibernate Mode

If you want to stay away from your work for just a while, you can put the system on Stand by instead of in hibernation. It takes a longer time to wake up the system from **Hibernate** mode than from **Stand by** mode.

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Stand by/Hibernate or Shutdown Error

The computer may stop responding when you put it into (or resume from) Stand By or Hibernate, or when you shut down.

This error is caused by power management within *Windows XP*, when applied to a PC Camera attached to the internal USB hub.

Microsoft has posted a Hotfix for this error on its website (search for Hotfix KB909667).

Download and install the Hotfix to correct this error.

Stand by

Stand by saves the least amount of power, but takes the shortest time to return to full operation. During Stand by the hard disk is turned off, and the CPU is made to idle at its slowest speed. All open applications are retained in memory. When you are not using your computer for a certain length of time, which you specify in the operating system, it will enter Stand by mode to save power.

Hibernate

Hibernate uses no power and saves all of your information on a part of the HDD before it turns the system off. Although it saves the most power it takes the longest time to return to full operation. You can set your computer to automatically enter Hibernate mode when the battery power is almost depleted. You will need to enable Hibernate mode from the **Hibernate** tab in the Power Options control panel. **The system will resume from Hibernate mode by pressing the power button**.



System Resume

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The system can resume from Stand by mode by:

- Pressing the power button
- Pressing the Sleep/ Resume key combination
- An incoming call received on the modem (if enabled)
- Network card (Wake On LAN) activity (if enabled)

Figure D - 12 Enable Hibernation

Configuring the Power Button

The power button may be set to send the computer in to either **Stand by** or **Hibernate** mode. In **Stand by** mode, the LED **D**/**U** will blink green. In **Hibernate** mode the LED will be off (battery) or orange (AC/DC adapter). If you are in a power saving mode set to save power through individual components (e.g. hard disk, monitor), the LED will remain green.

| Power Schemes Alarms Power Meter Advanced Hibernste | Power Schemes Alarms Power Meter Advanced Hibernate | |
|--|---|--|
| Select the power-saving settings you want to use: | Select the power-saving settings you want to use. | |
| Options | Options | |
| Always show icon on the taskbar | Always show icon on the taskbar | |
| Prompt for password when computer resumes from standby | Prompt for password when computer resumes from standay | |
| Powet buttom | Power buttons | |
| When I close the lid of my portable computer: | When I close the lid of my portable computer | |
| Stand by 😠 | Stand by 👻 | |
| Dia nothing Stand by | When I press the power button on my computer: | |
| Shut down 💌 | Shut down | |
| When I press the sleep button on my computer: | When I press the sleep button on my computer. | |
| Stand by 👻 | Stand by | |
| | Do nothing Ask me what to do Stand by Hibernate | |
| OK Cancel Soph | Shukdo w | |
| | Select the power-swing settings you want to use: Dation Administ show scon on the taskbai Administ show scon on the taskbai Proves buttom Proves buttom When I close the lid of my portable computer: Stand by When I close the lid of my portable computer: Stand by When I press the sleep button on my computer: | |

ed. In *Windows* this is referred to as the **Sleep** button.

Sleep Button

You may also configure

the Sleep/Resume key combination (Fn + F4)

from the menu illustrat-

Figure D - 13 Power Options (Advanced - Power Buttons)

Power Button

Lid

Sleep/Resume (Sleep) Button



When the battery is critically low, immediately connect the AC/DC adapter to the computer or save your work, otherwise, the unsaved data will be lost when the power is depleted.

> Figure D - 14 Power Options (Alarm & Power Meter)

Battery Information

Please follow these simple guidelines to get the best use out of your battery.

New Battery

Always completely discharge, then fully charge, a new battery (see "*Battery FAQ*" *on page D* - 27 for instructions on how to do this).

Battery Life

Your computer's battery life is dependent upon many factors, including the programs you are running, and peripheral devices attached. **Power Options** (you may set low battery **Alarms** and actions, and check the **Power Meter** from the **Power Options** control panel), and settings in the OS will help prolong the battery life if configured appropriately.

| www.Schemes | Alams | Power Meter A | dvanced Hibemate | |
|------------------|-----------|------------------------|--------------------|------|
| Low battery a | am | | | |
| Activate k | w battery | alam when power | et level te aches | 10% |
| 0% | 3 | | | 100% |
| | | | | |
| AlarmA | ction | Notification: | Sound, Text | |
| | - | Action: Run Program | Stand by None | |
| Critical battery | | ero alam oihen pr | aver level reacher | 32 |
| - | | ay adding research | | |
| 04: -3 | | | | 100% |
| Alarn A | ction] | Notification | Sound Test | |
| Linder | and the | Action | Hibernate | |
| | | Run Program: | None | |
| | | | | _ |



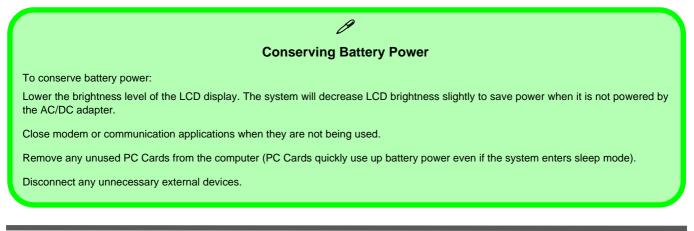
D - 24 Battery Information

Battery life may be shortened through improper maintenance. To optimize the life and improve its performance, fully discharge and recharge the battery at least once every 30 days.

We recommend that you do not remove the battery yourself. If you need to remove the battery for any reason, see "*Removing the Battery*" on page 6 - 3.

Recharging the Battery with the AC/DC Adapter

The battery pack automatically recharges when the AC/DC adapter is attached and plugged into an electrical outlet. If the computer is powered on, and in use, it will take several hours to fully recharge the battery. When the computer is turned off but plugged into an electrical outlet, battery charge time is less. (Refer to "*LED Indicators*" on page 1 - 10 for information on the battery charge status, and to "*Battery Information*" on page D - 24 for more information on how to maintain and properly recharge the battery pack.)



Proper handling of the Battery Pack

- DO NOT disassemble the battery pack under any circumstances
- DO NOT expose the battery to fire or high temperatures, it may explode
- DO NOT connect the metal terminals (+, -) to each other

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Damaged Battery Warning

Should you notice any physical defects (e.g. the battery is bent out of shape after being dropped), or any unusual smells emanating from the notebook battery, shut your computer down immediately and contact your service center. If the battery has been dropped we do not recommend using it any further, as even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire. It is recommended that you replace your computer battery every two years.

Battery FAQ

How do I completely discharge the battery?

Use the computer with battery power until it shuts down due to a low battery. Don't turn off the computer by yourself even when you see a message that indicates the battery is critically low, just let the computer use up all of the battery power and shut down on its own. Disable the **Power Options** functions in the **Control Panel**, especially any **Alarms (unclick** the tickboxes - see page D - 24) and **Schemes** (change all the settings to **Never** - see page D - 19). As the battery nears the end of its life save and close any critical files.

How do I fully charge the battery?

When charging the battery, don't stop until the LED charging indicator light changes from orange to green.

How do I maintain the battery?

Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges.

X

Caution

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

Driver Installation (WINXP)

Insert the *Device Drivers & Utilities + User's Manual Disc*, click *Install Drivers/Option Drivers* (button) and then click the appropriate driver name from the *Drivers Installer* menu. Follow the instructions to install the driver. Alternatively click **Start**, navigate (**Browse.**) to the executable file and then follow the manual setup instructions.



D

Figure D - 15 - Drivers Installer Screen 1

- Check the driver installation order from *Table D 3* (the drivers must be installed in this order) which is the same as that listed in the *Drivers Installer* menu below.
- 2. Click to select the driver you wish to install, (you should note down the drivers as you install them).
- 3. Follow the instructions for each individual driver installation procedure as listed on the following pages.
- 4. Note: If you need to reinstall any driver, you should uninstall the driver first.



Figure D - 16 - Drivers Installer Screen 2

D - 28 Driver Installation (WINXP)

| WinXP SP3 Driver | Page # |
|---------------------|-------------|
| Chipset | Page D - 30 |
| Video (VGA) | Page D - 30 |
| LAN | Page D - 31 |
| Card Reader | Page D - 31 |
| TouchPad | Page D - 31 |
| Hot Key | Page D - 31 |
| Audio | Page D - 31 |
| Hot Key | Page D - 31 |
| Wireless LAN Module | Page D - 34 |
| PC Camera Module | Page D - 36 |
| 3.75G/HSPA Module | Page D - 38 |

Table D - 3 - Driver Installation

Updating/Reinstalling Individual Drivers

If you wish to update/reinstall individual drivers it may be necessary to uninstall the original driver. To do this go to the **Control Panel** in the **Windows OS** and doubleclick the **Add/Remove Programs** item. **If you see the individual driver listed** (if not see below), uninstall it, following the on screen prompts (it may be necessary to restart the computer). Go to the appropriate section of the manual to complete the update/reinstall procedure for the driver in question.

If the driver is not listed in the **Add/Remove Programs** item:

- Click Start (menu), point to Settings and click Control Panel (or click Start > Control Panel).
- 2. Double-click **System** (icon); System (icon) is in **Performance and Maintenance** (category).
- 3. Click Hardware (tab) > Device Manager (button).
- 4. Double-click the **device** you wish to update/reinstall the driver for (you may need to click "+").
- 5. Look for the **Update Driver** button (check the **Driver** tab) and follow the on screen prompts.

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Windows XP Service Pack 3

Make sure you install **Windows XP Service Pack 3** (or a Windows XP version which includes Service Pack 3) **be-fore installing any drivers**.

Driver Installation General Guidelines

The driver installation procedure outlined in this Chapter are accurate at the time of going to press.

Drivers are always subject to upgrade and revision so the exact procedure for certain drivers may differ slightly. As a general guide follow the default on screen instructions for each driver (e.g. **Next > Next > Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

Make sure any modules (e.g. PC Camera, WLAN or 3.75G/HSPA) are **ON** before installing the appropriate driver.

New Hardware Found

If you see the message "**New Hardware Found**" during the installation procedure (**other than when outlined in the driver install procedure**), click **Cancel** to close the window, and follow the installation procedure.

Driver Installation Procedure

Insert the *Device Drivers & Utilities + User's Manual* disc, click *Install Drivers/Option Drivers* (button) and then click the appropriate driver name from the *Drivers Installer* menu.

Chipset

- 1. Click **1.Install Chipset Driver > Yes**.
- 2. Click **Next > Yes > Next > Next**.
- 3. Click **Finish** to restart the computer.

Video (VGA)

- 1. Click **2.Install VGA Driver > Yes**.
- 2. Click **Next > Yes > Next > Next**.
- 3. Click **Finish** to restart the computer.

LAN

- 1. Click **3.Install LAN Driver > Yes**.
- 2. Click **Install > Finish** to complete the installation.
- 3. The network settings can now be configured.

Card Reader

- 1. Click 4.Install Cardreader Driver > Yes.
- 2. Click **Install > Finish** to complete the installation.

TouchPad

- 1. Click **5.Install Touchpad Driver > Yes**.
- 2. Select the installation language and click **OK**.
- 3. Click Next.
- 4. Click **Yes** to restart the computer.

Hot Key

- 1. Click **6.Install HotKey** AP > Yes.
- 2. Click **Next > Install**.
- 3. Click **Finish > Finish** to restart the computer.

Audio

- 1. Click **7.Install Audio Driver > Yes**.
- 2. Click Next.
- 3. Click the button to agree to the license and click **Next**.
- 4. Click **Next > Next > Next**.
- 5. Click **Finish** to restart the computer.

Note that after installing the audio driver the system will not return to the *Drivers Installer* screen. To install any of the optional drivers listed overleaf, eject the *Device Drivers & Utilities + User's Manual* disc and then reinsert it (or double-click the disc icon in **My Computer**), and click *Option Drivers* (button) to access the optional driver menu.

Module Drivers

See the following pages for the driver installation procedures for any of the optional modules included in your purchase configuration.



Figure D - 17 - Drivers Installer Option Drivers Menu Make sure any modules (e.g. WLAN, PC Camera, 3.75G/HSPA or Bluetooth) are **ON** before installing the appropriate driver.

Wireless LAN Module

See the introduction in *"Wireless LAN Module" on page D - 34*, and check the installation procedure.

PC Camera Module

See the introduction in "*PC Camera Module*" on page D - 36, and check the installation procedure.

3.75G Module

See the introduction in *"3.75G/HSPA Module" on* page D - 38, and check the installation procedure.

Bluetooth Module

The operating system is the default setting for **Blue-tooth** control for the **Bluetooth module** in *Windows XP* and does not require a driver.

Wireless LAN, Bluetooth & 3.75G Modules



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are **OFF** if you are using the computer aboard aircraft.



Wireless LAN, Bluetooth & 3.75G Modules Power Toggle

Enable power to the modules as follows:

Fn + F11 = Wireless LAN Module Power Toggle

Fn + F12 = Bluetooth Module Power Toggle

Fn + = 3.75G Module Power Toggle

The LED indicator (1) will be **green** if the WLAN module is on, and **orange** if the Bluetooth module is on.



The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the Fn + F11 key combination button to toggle power to the WLAN module, and check the LED indicator to see if the module is powered on or not (see Table D - 1, on page D - 4/ Table 1 - 3, on page 1 -10).

Wireless LAN Module

If you have included an **802.11b/g/n WLAN** module in your purchase option, make sure that the Wireless LAN module is on before installing the driver (the WLAN module's default power state is off).

Use the Fn + F11 key combination (see *"Function/Hot Key Indicators" on page D* - 4) to toggle power to the Wireless LAN module. Make sure you install the drivers in the order indicated in *Table D* - 3, on page D - 29.

802.11b/g/n WLAN Driver Installation

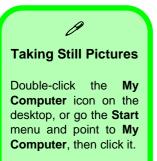
- 1. Make sure the module is powered on, and then insert the *Device Drivers & Utilities + User's Manual* disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **1.Install WLAN Driver > Yes**.
- 4. Select the installation language and click Next.
- 5. Click **Next > Install**.
- 6. Click Finish to restart the computer.
- 7. The operating system is the default setting for Wireless LAN control in *Win-dows XP*.
- 8. Access any available wireless networks from **Network Connections** > **Wireless Network Connection** menu in *Windows* (or click the icon **wireless** in the taskbar), and click **View Wireless Connections**.



Network Connection Use the *Windows* Network Connections

work Connections control panel to access available wireless networks (Start > Settings > Network Connections or Start > Connect To > Show all Connections).

Figure D - 18 Wireless Network Control Panels



Double-click the camera icon. Click **Take a new picture** in the **Camera Tasks** box.

PC Camera Module

Before installing the optional **PC Camera** module driver use the Fn + F10 key combination to toggle power to the module. There are a number of different camera modules available with this computer model series. You will have the appropriate application installed for your camera. Make sure you access the application via the desktop shortcut.

Use the Fn + F10 key combination (see "*Function/Hot Key Indicators*" on page D - 4) to toggle power to the PC Camera module. Make sure you install the drivers in the order indicated in *Table D* - 3, on page D - 29.

PC Camera Driver Installation

- 1. Insert the *Device Drivers & Utilities + User's Manual disc* into your external optical device drive.
- 2. Use the Fn + F10 key combination to turn the camera module on and give the system a few seconds to recognize the camera module before beginning the installation process.
- 3. Click **Option Drivers** (button).
- 4. Click 2.Install Webcam Driver > Yes.
- 5. Click **Next > Next**.
- 6. Click the tickbox to accept the license agreement and click **Install > Finish**.
- 7. Click Install > Finish to restart the computer.

OR

Click **Next > Finish** to restart the computer.

OR

Click Next > Next > Install > Finish > Yes to restart the computer.

OR

Choose the language you prefer and click **Next > Next > Finish** to restart the computer.

OR

Click Next > Install > Finish > Finish to restart the computer.

8. Run the camera application program from the desktop shortcut (if the hardware is turned off use the Fn + F10 key combination to turn it on again).

See "PC Camera Module" on page 7 - 8 for more information and configuration details.



ules **DO NOT** support system wake up on 3.75G/HSPA modem activity.

3.75G/HSPA Module

If you have included an **optional 3.75G/HSPA** (High Speed Packet Access) module in your purchase option, you will have the appropriate application provided for your particular module. Follow the instructions *on page 1 - 14* to install the USIM card (supplied by your service provider), and then install the application (see over for further details).

Before installing the application, make sure that the 3.75G/HSPA module is ON (installing the driver with the module off will not allow the software to detect the module hardware correctly). Use the Fn + **E** key combination (see "*Function/Hot Key Indicators*" on page 1 - 9) to toggle power to the 3.75G/HSPA module. Note that exiting the application does NOT turn off the 3.75G/HSPA module.

•Mobile Partner - See "Mobile Partner Application Installation" on page D - 39 for driver installation information and "Mobile Partner" on page 7 - 17 for instructions on using the Mobile Partner application.

•BandLuxe HSDPA Utility - See "BandLuxe HSDPA Utility Installation" on page D - 40 for driver installation information and "BandLuxe HSDPA - Connection Manager" on page 7 - 25 for instructions on using the BandLuxe HSDPA Utility.

Mobile Partner Application Installation

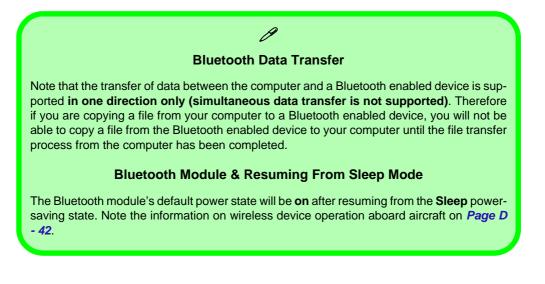
- 1. Enable power to the module by pressing the $\mathbf{Fn} + \mathbf{Fn}$ key combination (give the module about 10 seconds to power on the on screen icon screen icon will indicate the module's power status).
- 2. If a *Found New Hardware* window appears, click **Cancel** (click **Cancel** for all *Found New Hardware* windows that appear).
- 3. Insert the *Device Drivers & Utilities + User's Manual disc* into your external optical device drive.
- 4. Click **Option Drivers** (button).
- 5. Click **3.Install 3G Driver > Yes**.
- 6. Choose the language you prefer and click **OK**, and then click **Next**.
- 7. Click I Agree (button) to accept the license agreement.
- 8. Click **Next > Install**.
- 9. Click Finish.
- 10. Access the **Mobile Partner** application from the **Start** menu (**Start > Programs/All Programs > Mobile Partner**), or by double-clicking the **Mobile Partner** icon on the desktop.

BandLuxe HSDPA Utility Installation

- 1. Enable power to the module by pressing the $\mathbf{Fn} + \mathbf{Fn}$ key combination (give the module about 10 seconds to power on the on screen icon screen icon will indicate the module's power status).
- 2. If a *Found New Hardware* window appears, click **Cancel** (click **Cancel** for all *Found New Hardware* windows that appear).
- 3. Insert the *Device Drivers & Utilities + User's Manual disc* into your external optical device drive.
- 4. Click **Option Drivers** (button).
- 5. Click **3.Install 3G Driver > Yes**, and then click **Next**.
- 6. Choose the language you prefer and click **OK** > **Next**.
- 7. Click the button to accept the license and click Next.
- 8. Click **Next > Install**.
- 9. Click Finish.
- 10. Access the BandLuxe HSDPA Utility from the Start menu (Connection Manager Connection Manager), or (Start > Programs/All Programs > BandLuxe > BandLuxe HSDPA Utility R11 > Connection Manager).

Bluetooth Module

The operating system's **Bluetooth Devices** control panel is used to configure the Bluetooth settings in *Windows XP*, and therefore does not require a driver. Use the Fn + F12 key combination (see "*Function/Hot Key Indicators*" on page 1 - 9) to toggle power to the Bluetooth module.





Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

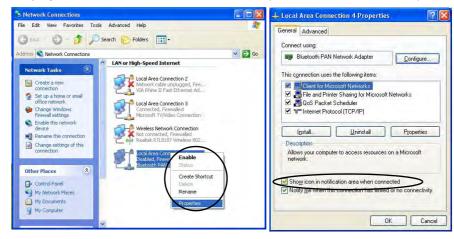
Use the Fn + F12 key combination button to toggle power to the Bluetooth module, and check the LED indicator to see if the module is powered on or not (see Table D - 1, on page D - 4/ Table 1 - 3, on page 1 - 10).

> Figure D - 19 Local Area Connection

Standard Bluetooth Configuration in Windows XP

If you want to display the Local Area Connection icon for the Bluetooth connection in the taskbar, set it up as follows:

- Access the Network Connections control panel in Windows (Start > Settings > Network Connections OR Start > Connect To > Show all Connections) or by clicking the taskbar icon
- 2. Right-click the Bluetooth connection icon, and select Properties.
- 3. Click to put a tick (if none is present) in the "Show icon in the notification area when connected" box and click OK.
- 4. Close the control panels and the icon solution for the Bluetooth local area connection will be displayed in the taskbar **when connected** (see sidebar and overleaf).

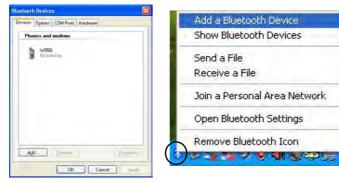


Setup your Bluetooth Device so the Computer Can Find it

- 1. Turn your Bluetooth device (e.g. PDA, mobile phone etc.) on.
- 2. Make the device discoverable (to do this check your device documentation).

To Turn the Bluetooth Module On

- 1. Press the **Fn + F12** key combination to power on the Bluetooth module.
- 2. A Bluetooth icon 👔 will appear in the taskbar (see sidebar).
- 3. You can then do any of the following to access the **Bluetooth Devices** control panel.
- **Double-click** the icon **1** to access the **Bluetooth Devices** control panel.
- Click Start, and click Control Panel (or point to Settings and click Control Panel), and then click Bluetooth Devices (Network and Internet Connections).
- Click/Right-click the icon 🛿 and choose an option from the menu.



Bluetooth Taskbar Icon

If you cannot see the Bluetooth icon in the taskbar, access the **Bluetooth Devices** control panel. Click **Op**tions (tab), and make sure that **Show Blue**tooth icon in the notification area check box has a tick inside it.

Note that you will need to check the LED indicator to see if the module is powered on or not.

Figure D - 20 Bluetooth Devices & Click Icon Menu

To Add a Bluetooth Device

- 1. Access the Bluetooth Devices control panel.
- 2. Click **Options** (tab), and make sure that **Allow Bluetooth devices to connect to** *this computer* check box (**Connections**) has a tick inside it.
- 3. Click Devices (tab), and then click Add.
- 4. The Add Bluetooth Device Wizard will appear.
- 5. Click to select "My device is set up and ready to be found", and then click Next.

Figure D - 21 Add Bluetooth Device Wizard

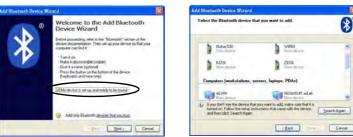
Passkey Options

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You can allow the system to choose a passkey for you. You will then be prompted to enter the generated passkey on your Bluetooth device.

Figure D - 22 **Passkey Option**

9. Click Finish.



- 6. The *Wizard* will then search for any available Bluetooth devices within range.
- 7. Click to select the device you want to communicate with, and click Next.
- 8. Select an appropriate passkey option and click Next.

| Add Blactooth Device Witard | 83 |
|---|-------------------|
| Do you need a passkey to add your device? | 8 |
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To Change Settings for the Bluetooth Device

- 1. Access the Bluetooth Devices control panel.
- 2. Click on the device you want to change and click Properties to:
- Change the name of the device (click General, type a new name and click OK).
- Enable/Disable a **service** (click **Services**, clear/tick the check box next to the service and click **OK**).

To Make your Computer Discoverable to Bluetooth Devices

- 1. Access the Bluetooth Devices control panel.
- 2. Click **Options**, and make sure that *Turn discovery on* check box (**Discovery**) has a tick inside it.
- Make sure that *Alert me when a new Bluetooth device wants to connect* check box (Connections) has a tick inside it, if you want to be notified when a Bluetooth device wants to connect.



Figure D - 23 Bluetooth Devices Options