

M2A1 User's Manual



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Preface

Please read this section before using your computer. Retain this manual for future reference.

Copyright

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Disclaimer

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Trademark Recognition

The company names, brand names and trademark graphics contained in this manual are for identification purpose only and may be claimed as the property of their respective companies.

Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class A 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:

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

Shielded interconnect cables and a shielded AC power cable must be employed with this equipment to ensure compliance with the pertinent RF emission limits governing this

device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (8 inches) between the radiator and your body.

Class 1 Laser Product Caution

Visible and invisible laser radiation when opening. Avoid direct exposure to beam.

FCC Wireless Regulations

Due to FCC regulations, wireless WAN and wireless LAN modules shall not work in a machine simultaneously. If these two modules are installed in the computer, while one is in use, the other will be off automatically by the system.

Safety Information

This computer has been designed and tested to meet the most recent standards of safety in notebook technology equipment. To ensure safe use of this computer, see [Chapter 2Taking Care of Your Computer](#) for more details.

Battery Caution

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

Contact Service

Disconnect your computer from power and contact qualified service personnel if any of the following occurs:

- Liquid has been spilled on your computer.
- Your computer does not operate correctly when operating instructions are followed.
- Your computer has been dropped or the case is broken open.
- The performance of your computer is seriously degraded.
- The power cord or adapter is damaged.

Whenever service is required, contact a sales representative or a local service center, or go to manufacturer's website for service information.

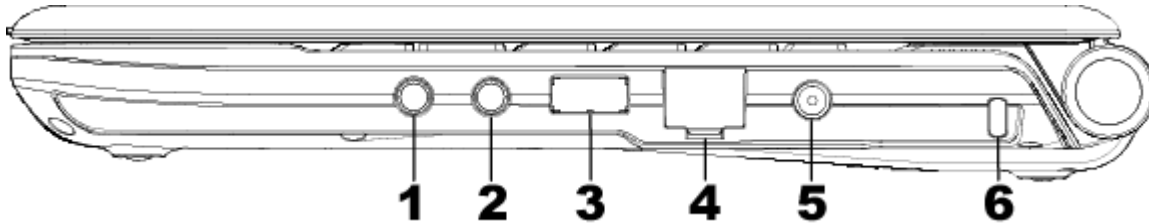
Table of Content

PREFACE.....	1
Copyright.....	1
Disclaimer	1
Trademark Recognition	1
Federal Communications Commission (FCC).....	1
Declaration of Conformity	2
FCC Caution.....	2
FCC Radiation Exposure Statement.....	2
Class 1 Laser Product Caution	2
FCC Wireless Regulations.....	2
Safety Information.....	2
Battery Caution.....	2
Contact Service	3
 CHAPTER 1. TAKING A TOUR OF YOUR COMPUTER	6
Right View	6
Left View	6
Front View	6
Rear View	6
Bottom View.....	7
Top View	8
 CHAPTER 2. TAKING CARE OF YOUR COMPUTER	9
Safety Information.....	9
Clean Your Computer.....	9
Tips on Correct Use	10
 CHAPTER 3. GETTING STARTED WITH YOUR COMPUTER	12
Install Battery.....	12
Connect AC Adapter	12
Power On.....	13
Start Operating System.....	13
 CHAPTER 4. USING YOUR COMPUTER.....	14
Use Keyboard	14

Use Touchpad	17
Use Control Center	19
Use Display	20
Connect to Local Area Network	21
Connect to Wireless Local Area Network	22
Connect to Wireless Wide Area Network (Optional)	22
Use Bluetooth Services	23
Use USB Devices	25
Use Web Camera	25
Use Card Reader	26
Use GPS (Optional)	27
Use Sound System	27
 CHAPTER 5. ADVANCE	29
BIOS Setup Utility	29
System Recovery	36
 APPENDIX	38
Power Specification	38

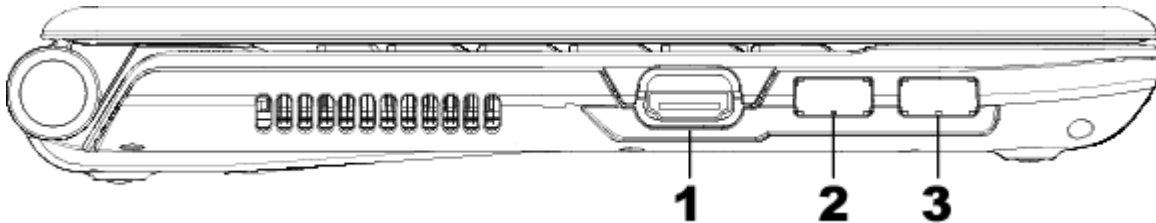
Chapter 1. Taking A Tour of Your Computer

Right View



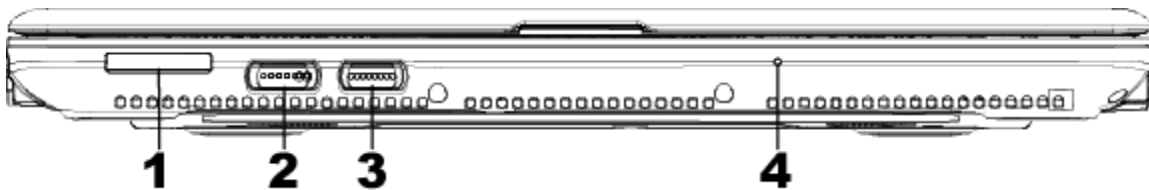
- | | | |
|-------------------|----------------------|-------------------|
| 1 Audio-out jack | 2 Microphone-in jack | 3 USB connector |
| 4 RJ-45 connector | 5 AC power connector | 6 Kensington lock |

Left View



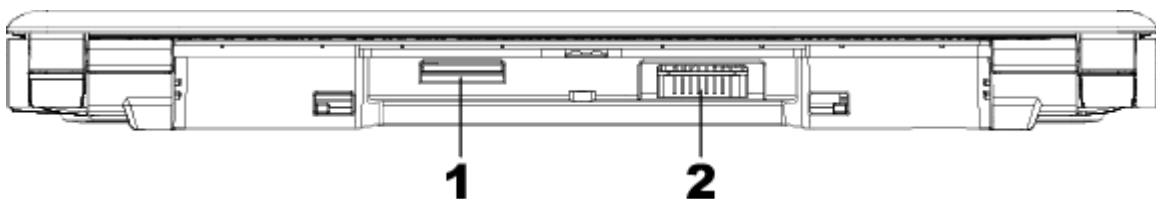
- | | | |
|---------------------------|-----------------|-----------------|
| 1 Monitor (VGA) connector | 2 USB connector | 3 USB connector |
|---------------------------|-----------------|-----------------|

Front View



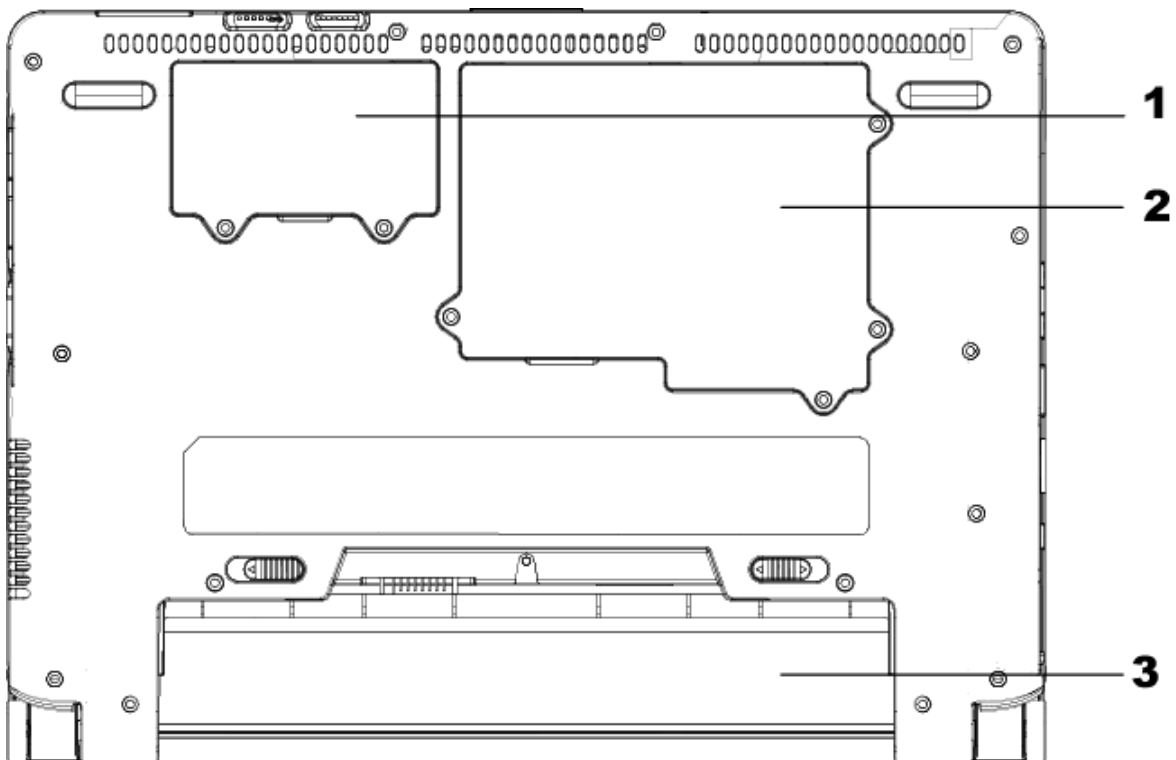
- | | | |
|-----------------------|----------------|--|
| 1 Card reader | 2 Power switch | 3 Master power switch of built-in wireless modules |
| 4 Built-in microphone | | |

Rear View



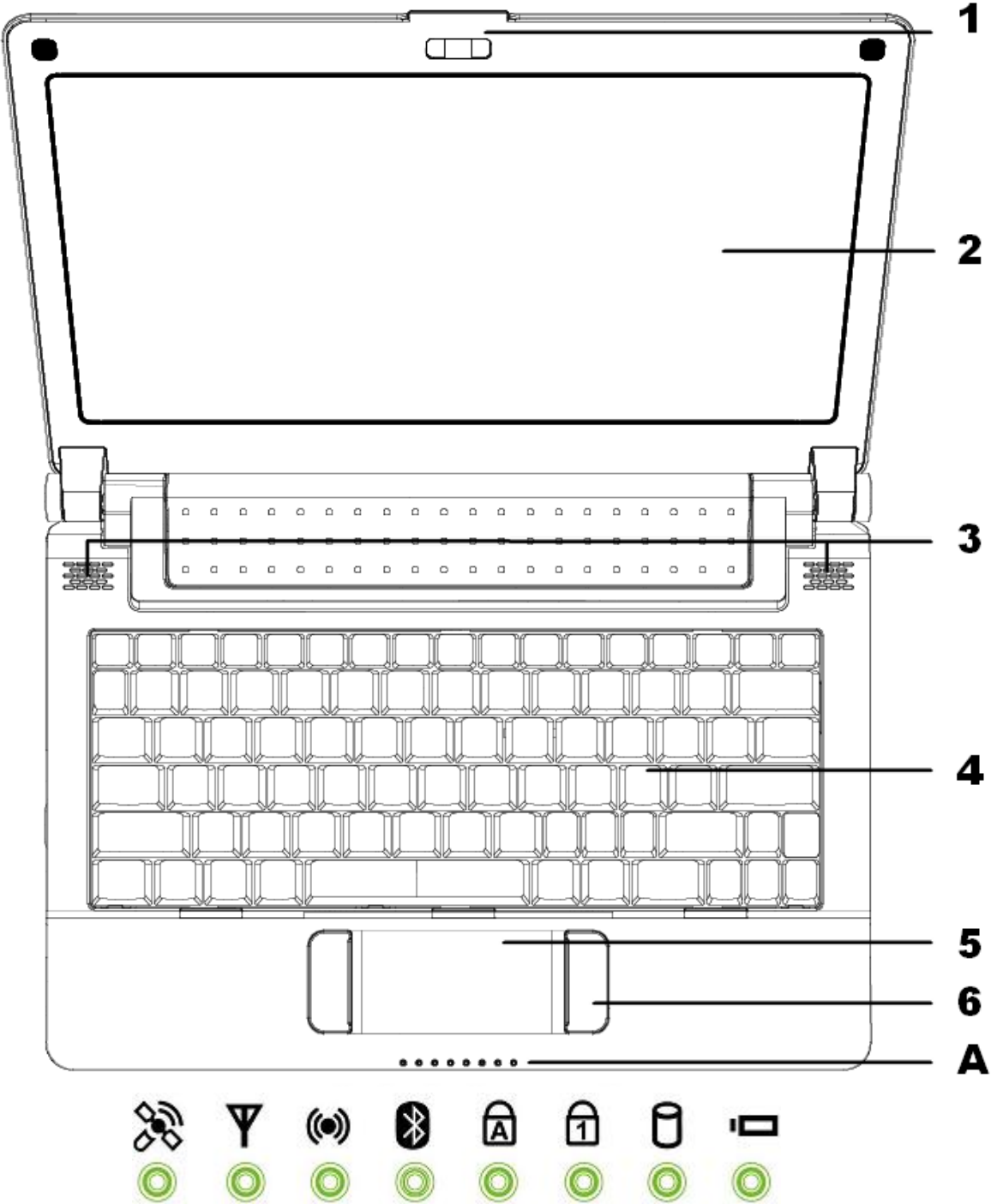
- | | |
|-----------------|---------------------|
| 1 SIM card slot | 2 Battery connector |
|-----------------|---------------------|

Bottom View



- 1 Memory slot 2 Hard disk connector 3 Battery bay

Top View



1 Web Cam
5 Touchpad

2 LCD
6 Touchpad buttons

3 Speakers

4 Keyboard

LED Lights: A1 GPS A2 WWAN A3 WiFi A4 Bluetooth
A5 Caps Lock A6 NumLk A7 Hard Disk Drive A8 Battery charge

Chapter 2. Taking Care of Your Computer

Safety Information

- When you use your computer for the first time, it is recommended that the computer should be operated with battery equipped and connected to external power.
- After installing battery, make sure the latch is slid to lock position, so that battery won't fall out and get damaged.
- Use only the AC adapter and the power cord that are provided with your computer to keep the computer from damage and danger.
- Only operate your computer from the type of power source indicated on the rating label on the AC adapter. (See **Appendix: [Power Specification](#)** for details.)
- Do not use any battery of questionable origin. The use of a battery that is not approved by the manufacturer may be dangerous and may result in danger of explosion.
- Make sure none of the ventilation openings around the computer and at the bottom of it is blocked or covered. And never insert objects of any kind into the ventilation openings. Bad ventilation will overheat the computer and further lead to damage.
- Do not spill water or any other liquid on your computer and do not expose your computer to rain or moisture.
- Keep your computer from direct sunshine and heat.
- Do not expose your computer to dusty or dirty environments.
- Avoid subjecting your computer to heavy shocks or vibrations.
- Do not place heavy objects on your computer.
- Always disconnect the power by pulling the plug out of the socket rather than pulling at the power cord.

Clean Your Computer

Since your computer is a precision instrument, follow the instructions below when cleaning it:

- Before cleaning your computer, make sure it is powered off and all external

devices and battery are disconnected.

- **Cleaning LCD:** Since LCD attracts dust due to static electricity and gets stained by fingerprints, it is recommended that you should wipe the LCD with a soft cloth made specially for cleaning LCD. If the contamination cannot be removed, moisten the cloth with water or a diluted glass cleaner.
- **Cleaning the outside of computer case:** First use a vacuum cleaner or an air gun to clean dust from the surface or the gaps on the computer case. Then wipe the computer case clean with a soft cloth. If the contamination cannot be removed, moisten the cloth with water or a diluted non-corrosive glass detergent.



Note: When cleaning with water or detergent, do not directly spray them onto the LCD.

Tips on Correct Use

LCD

- If you are going to leave the computer for a while, you can have the LCD off by using hot-keys, by which not only power is saved but also the lifespan of LCD is prolonged.
- Do not close your computer using too much force, so as not to damage the LCD.
- Do not contact the LCD with the tips of your fingernails or the pointed ends of sharp/hard objects, so as to keep the LCD from scratch.
- When carrying your computer in a bag or backpack, minimize your things in that bag/backpack, make sure the LCD isn't crushed.

Battery

- Room temperature is most appropriate for your computer to operate. Too low or too high temperatures will both shorten battery's power-consumption time.
- When battery is fully charged, the protection circuit in battery will automatically disable the charging function. Therefore you can rest assure to use your computer connected to external power constantly and don't have to worry about over charge.
- It is recommended that battery be calibrated quarterly, so that battery's performance remains the best.

Hard Disk Drive

- Operate your computer in the circumstances as stable as can be. Because your computer is subject to shock when operating in swaying/vibrating circumstances.

- The booting up and shutting down of your computer are the times when the hard disk drive is most fragile because the rotational speed of the spindle is still unstable. If vibration occurs at that moment, hard disk sectors are subject to damage. It is therefore recommended that the computer should not be moved when booting up and shutting down.
- Regular hard disk scanning and reorganization will enhance the accessing to hard disk drive.

Keyboard

- Do not hit the keyboard. Keyboard is subject to deformation and the deterioration of elasticity if it is hit.
- Never let objects (such as crumbs) get into keyboard. Keys are subject to malfunction if objects get into keyboard.

Touchpad

- Always use Touchpad with hands clean and dry, so as to prevent the Touchpad from malfunction or insensitiveness.
- Touchpad is a device of precision sensors. Never use any object with pointed end to operate it or apply great force to it.

Backup

A laptop computer is your best partner on the road due to its mobility. However, due to accidental deletion/overwriting, hard disk damage, viruses, act of God (flood, fire), theft and so on, your files are subject to loss which puts your work on hold. Since the value of your files is beyond measure, to minimize the possible loss, it is recommended that you should form the habit of regularly backing up your files, so as have more careless, convenient, and safer use of your computer.

Access to Your Computer

Password to Hard Disk Drive

Under the **Security Menu** of **BIOS Setup**, you can set up the password to your hard disk drive. Once such password is set up, you will be asked to provide it at boot. Only correct password makes it possible to boot up your computer and further access the hard disk drive. Such password protects your hard disk drive from illegal accessing and data theft.

Password to System

Except for the password to the hard disk drive, you can also set up a password for the system. Once such password is set up, you will be asked to provide it to boot up or to access **BIOS Setup**. Only correct password allows the following operation of your computer. Such password functions also to protect illegal accesses to your computer.

Chapter 3. Getting Started with Your Computer

This chapter explains how to power up your computer for the first time:

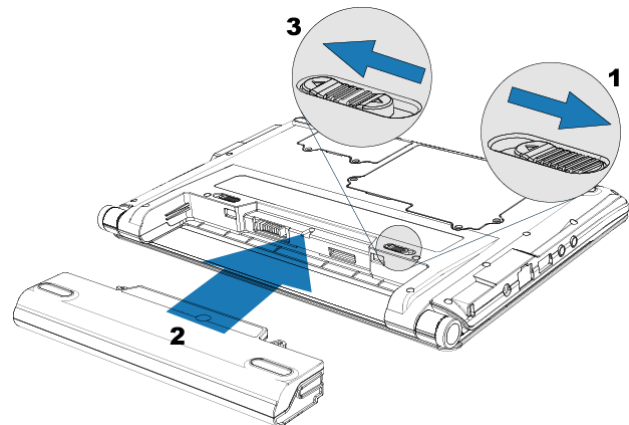
1. Install battery.
2. Connect AC Adapter.
3. Power on your computer.
4. Activate operating system.

Install Battery

This computer is provided with a swappable chargeable battery. A standard package version provides a battery of standard capacity while an extended package version provides an extended battery of more capacity that enables longer power-consumption time.

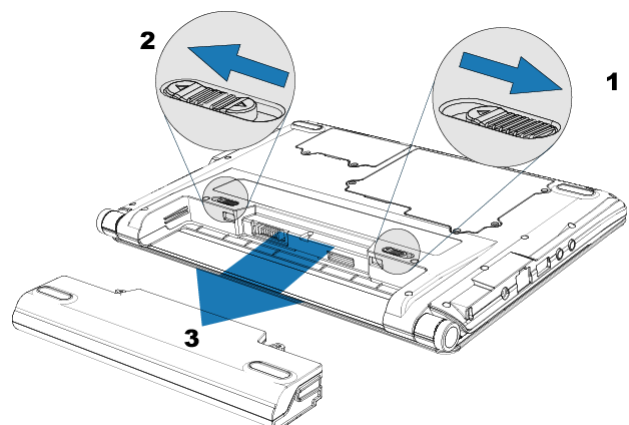
To install the battery:

1. For battery, there are 2 latches. One is lock-latch and the other release-latch.
2. Slide the lock-latch to the open position.
3. Position the battery to the battery bay and install the battery.
4. Slide the lock-latch back to lock position.



To remove battery:


1. Slide the lock-latch to the open position.
2. Use another hand to slide the release-latch to the open position and hold it there.
3. Remove the battery.

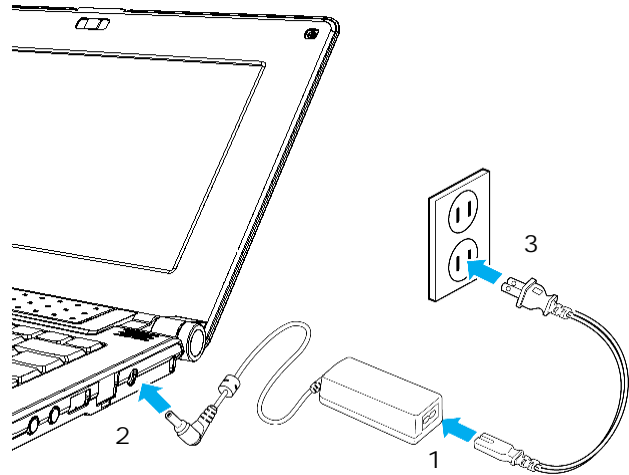


Connect AC Adapter

A standard package version of this product is provided with an AC adapter and a power cord which meet the requirement of universal power-supply specification with input rating of 100-240Vac. However, the plug of this power cord may not suit your country, if it doesn't, purchase a suitable plug adapter or power cord at your local electric appliances shop.

Connect AC adapter:

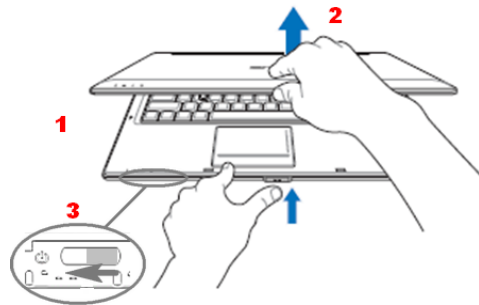
1. Connect the power cord to AC adapter.
2. Connect the AC adapter to the AC power connector on your computer.
3. Connect the power cord to an electrical outlet. (The battery charge LED  will light.)



Power On

Once you are done with the connection of AC adapter, you can proceed to power on your computer.

1. Open your computer.
2. Adjust the display to the best viewing angle.
3. Slide the power latch to the left to power on.



Start Operating System

If the computer you purchased is a version preinstalled with an operating system. The operating system is ready to start up and recoverable. When the system starts up for the first time, you will be prompted to activate it. After activation, you will be able to operate it. For more information about system activation, see the bundled **Windows® Quick Start Guide**. For more information about system recovery, see [System Recovery](#) in [Chapter 5Advance](#).



Tip To make any change to BIOS settings, see [Chapter 5Advance](#) > [BIOS Setup Utility](#).

Chapter 4. Using Your Computer

This chapter will guide you through various features of this computer and the usage.

Use Keyboard

Keyboard functions as the main input device. Your computer has a keyboard of 82 keys which emulates a standard keyboard with additional **Fn** hotkeys, Windows® key and a numeric keypad.

Use the Keys



escape key

In Microsoft Windows, this key is used as a shortcut in dialog boxes for no, quit, exit, cancel, or abort.




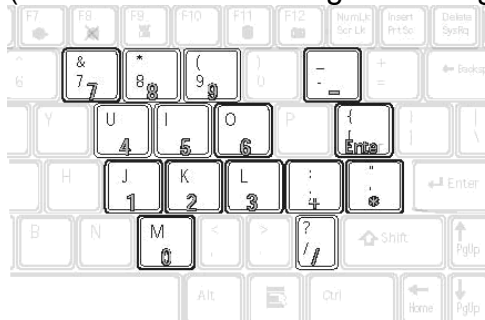
function keys

The keyboard has 12 function keys in total. Depending on application program's features, shortcut keys may be customizable for specific functions or commands.





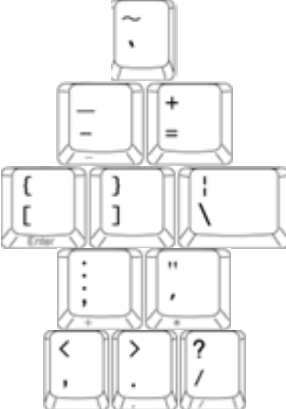







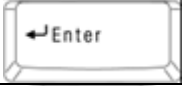



num lock key

To enable/disable numeric keyboard.
(NumLk LED  will lights on or goes off.)



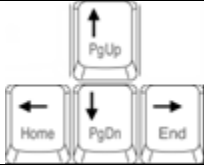



insert key

To switch between the two text-entering modes: insert mode and overwrite mode.

	delete key	To discard the selected characters or the character ahead of the cursor's position.
	pause/break key	To interrupt the running program.
	punctuation keys	11 punctuation keys that are commonly used.
	numeric keys	10 numeric keys
	backspace key	This key moves the cursor one position backwards, deletes the preceding character, and shifts back the text after it by one position.
	tabulator key	In text-typing, it advances the cursor to the next tab stop. This key also switches between various buttons and options of running programs.
	caps lock key	This key enables/disables the keyboard mode in which typed letters are capitalized by default. (The Caps Lock LED  will light on / go off.)
	shift key	There are two shift keys on each side of the keyboard. Pressing and holding shift key down enables the typing of capital letters if caps lock key isn't engaged. Shift key is also often used in conjunction with another key to produce actions or computer commands.
	letter keys	To type the 26 letters.
	enter key	This key typically finishes an "entry" and begins the desired process.
	control key	This key performs a special operation when being pressed in conjunction with another key.
	alt key	This key changes the function of other pressed keys when it is used in conjunction with them.
	function keys	<ul style="list-style-type: none"> ■ Pressing Fn twice: Resumes your computer from suspend mode. ■ Fn + Esc: Enables/Disables Touchpad. ■ Fn + F1: Changes video output to an external display. ■ Fn + F2: Decreases display brightness. ■ Fn + F3: Increases display brightness.

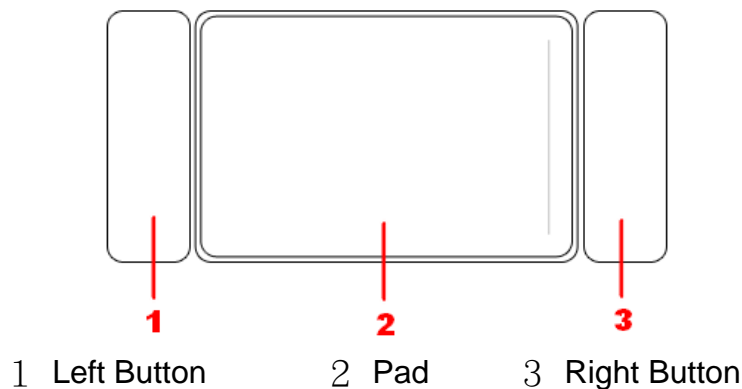
- **Fn + F4:** Puts your computer in suspend mode.
- **Fn + F5:** Puts your computer to hibernation mode.
- **Fn + F6:** Decreases the volume.
- **Fn + F7:** Increases the volume.
- **Fn + F8:** Mutes/enables the volume.
- **Fn + F9:** Enables/disables the built-in wireless local area networking module (WiFi).
- **Fn + F10:** Enable/disables the built-in 3G module (WWAN).
- **Fn + F11:** Enable/disables the built-in Bluetooth module.
- **Fn + F12:** Enables/disables the built-in web camera.
- **Fn + Shift:** Enables/disables the built-in GPS module.
- **Fn + Num Lk:** Enables/Disables scroll lock. When enabled, press the up or down arrow keys to scroll up or down one line respectively
- **Fn + Insert:** Captures the on-screen image to clipboard.
- **Fn + Delete:** Terminal request. This key is rarely used.
- **Fn + Home:** Displays the first page of a document or moves the pointer to the beginning of a line in text.
- **Fn + End:** Displays the last page of a document or moves the pointer to the end of a line in text.
- **Fn + PgUp:** Moves text up one screen at a time.
- **Fn + PgDn:** Moves text down one screen at a time.

	space bar	Space bar is a key significantly wider than other keys on the keyboard. Its main purpose is to enter the space.
	application key	This key functions to launch a context menu in software's user interface with the keyboard rather than with the usual right mouse button.
	arrow keys	This key is to move the cursor in a specified direction.
	Windows key	<ul style="list-style-type: none"> ■ Pressed once: To open and close the Start Menu. ■ +TAB: To switch between windows, or to switch windows using Flip 3D (with Windows Aero and

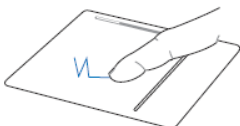
- +D: Windows Vista only).
To show desktop.
- +L: To switch between users, or lock desktop while unattended.
- +M: To minimize all windows.
- +Shift+M: To restore after minimizing all windows.
- +E: To open **[My Computer]** window.
- +F: To open **Search**.
- +F1: To show **[Windows Help and Support]** window.
- +CTRL+F: To find computers.
- +R: To open **[Run]** dialogue.
- +U: to open **Utility Manager**.

Use Touchpad

The Touchpad consists of a pad and two click-buttons. The left and right click-buttons correspond to the left and right buttons on a mouse. Slide your finger over the Touchpad in the direction you want the pointer to move on the screen.

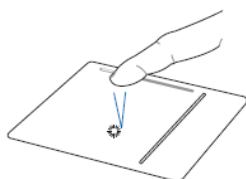


Operate Touchpad



Slide:

Slide your finger up and down in the scroll area to move the pointer up and down on the screen.



Single-tap:

Tap your finger once on the Touchpad to locate the pointer on the screen. Such tapping emulates clicking left mouse button once.



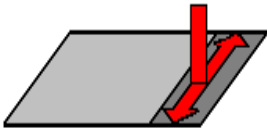
Double-tap:

Tap your finger twice quickly on the Touchpad to select or execute the object that is being pointed on screen. Such tapping emulates double-clicking left mouse button.



Drag:

Move the pointer onto the object you are going to drag. Tap on the Touchpad twice quickly and hold your finger there upon the second finger-down. Slide your finger on the Touchpad to move the tapped object on screen.



Vertical Scroll:

Slide your finger up and down on the scroll area of Touchpad to browse up and down the active window. Such scrolling emulates the operation of mouse's scroll bar.

Left and Right Touchpad Buttons

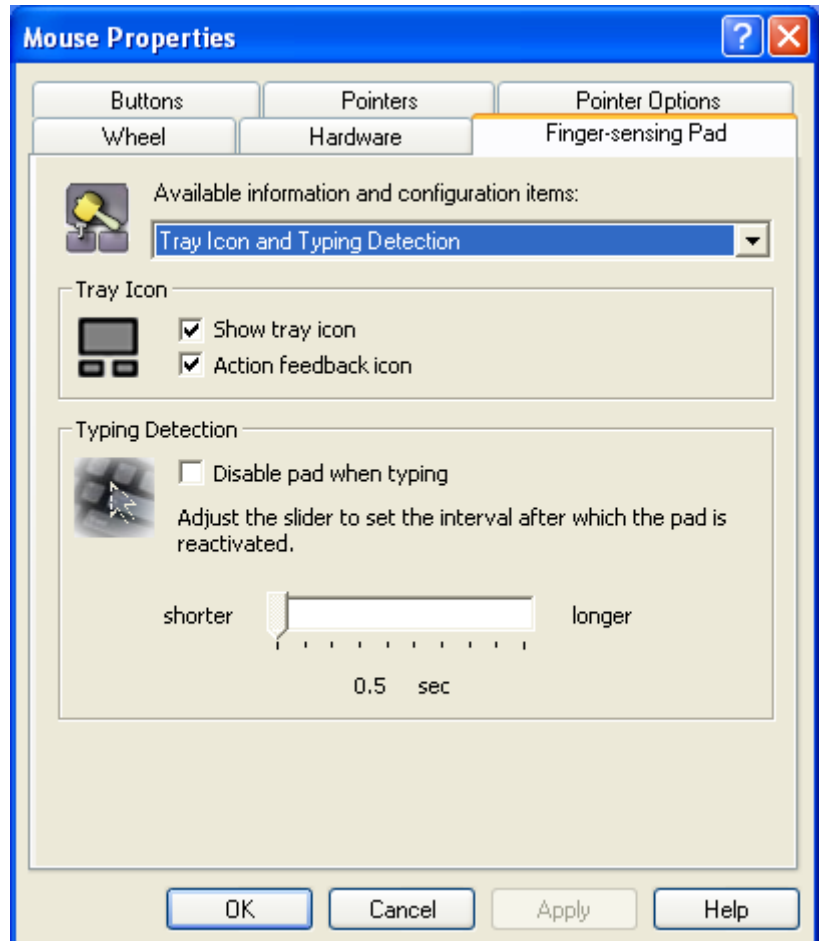
Left Button: Pressing this button emulates a left mouse click by default.

Right Button: This button emulates a right mouse click and functions to invoke the context menu of software's user interface.

Left/Right Button: Pressing the left/right buttons together emulates a middle mouse click (scroll wheel button click) that displays scroll symbol by default.

Customize Touchpad


To your needs and preference, you can customize the Touchpad settings, such as pointer speed, scroll speed, vertical/horizontal scrolling and so on. Click **Help** in the touchpad utility for instructions on changing touchpad settings.



Use Control Center

With **Control Center**, you can easily and quickly enable/disable various commonly-used built-in modules and change settings such as volume, display brightness, putting your computer to suspend/hibernation modes. With this utility, you can also check system health such as CPU/system/battery temperatures, fan speed, and battery power.

Open Control Center

Control Center is a resident application program that is automatically enabled upon system's startup and featured in the notification area by the icon, . To open **Control Center**, either right-click this icon to select **Restore** from the menu that appears or simply double-click on this icon.



Use Control Center

Control Center consists mainly of 3 panels. On the main panel in the middle, you can see the statuses of the built-in wireless modules and also the RF-Kill button. Click on the buttons of these modules to enable/disable them. Click on the arrow dot at the bottom left of main panel to show/hide the left panel which displays commonly-used function buttons. Click on the arrow dot at the bottom right of main panel to show/hide the right panel which displays the health status of your system.


















Available Functions

Turn on/off the Wi-Fi module

function pane



Click to enable/disable 3G module (wireless WAN).
(Click the button to turn on/off the module. When the blue dot besides lights, the module is turned on.)

	Click to enable/disable wireless local area networking module (WiFi). (Click the button to turn on/off the module. When the blue dot besides lights, the module is turned on.)
	Click to enable/disable Bluetooth module. (Click the button to turn on/off the module. When the blue dot besides lights, the module is turned on.)
	Click to show/hide the right/left panels.
	Click to disable all wireless communications devices. (Click the button to turn on/off the module. When the blue dot besides lights, the module is turned on.) Note: The main power supply to all wireless modules must be switched on.
	Turns the volume on and off. (Click on this icon to mutes/enable volume.)
	Adjusts volume. (Click  to increase volume. Click  to decrease volume.)
	Displays brightness. (Click  to increase backlight brightness. Click  to decrease backlight brightness.)
	GPS. (Click the button to turn on/off the module. When the green light is on, the module is turned on.)
	Web Cam. (Click the button to turn on/off the module. When the green light is on, the module is turned on.)
	Suspend Mode. (Click the button to put your computer into suspend mode.)
	Hibernation Mode. (Click the button to put your computer into hibernation mode.)


Use Display

Your computer is provided with a wide-view color TFT LCD for display. Video output is also available through the D-SUB connector, by which you can connect an external monitor or projector to your computer.

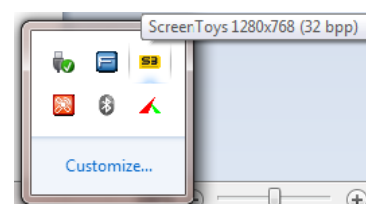
Adjust Brightness

Press **Fn+F2** to decrease brightness. Press **Fn+F3** to increase brightness. Brightness is also adjustable through **Control Center**.

Configure Display

Click on the  icon in the notification area to open the display setting utility.

Follow the onscreen instructions to make the settings

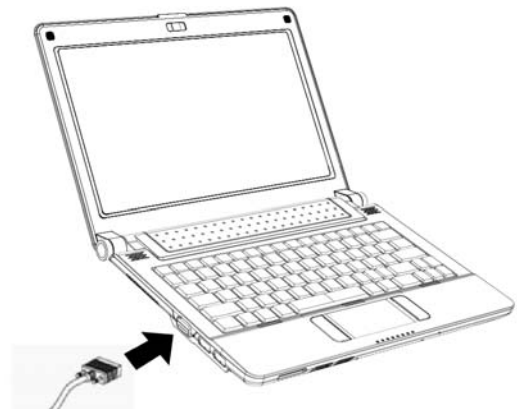


such as resolution adjustment.



Connect External Display

1. Connect the signal cable of the external display to the D-sub connector on your computer.
2. Press **Fn+F1** to switch between displays. Press **Fn+F1** repeatedly to switch among three display modes: computer display only, external display only, and both.

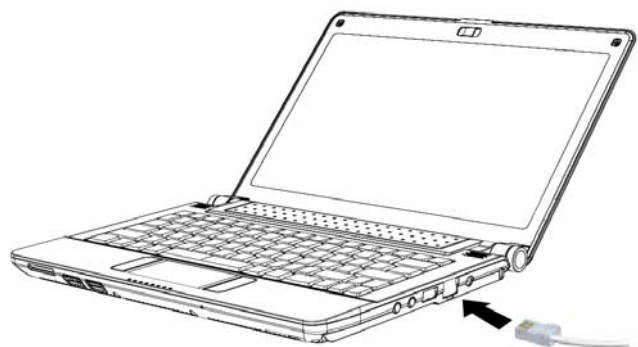


Connect to Local Area Network

Your computer is built-in with Ethernet controller chip. Through the RJ-45 connector on your computer, your computer can connect to local area network and access the internet.

To make LAN connection:

1. Click the 8P8C plug of Ethernet cable into the RJ-45 connector on your computer.
2. Once Ethernet cable is connected, the internet can be connected automatically if you have already done the IP configuration or the default IP configuration can be validated. If the connection cannot be made, contact your network administrator or look up in the manual of the operating system.



To break the connection, unplug the Ethernet cable from the RJ-45 connector on your computer.

Connect to Wireless Local Area Network

Your computer is built-in with a wireless local area networking module that meets IEEE 802.11 b/g standard, which enables your computer to connect to any Access Point within the signal radius that meets the same communication standard and permits the accessing. Once your computer is connected to an Access Point, you will be able to access the files and services shared by the computers or devices on that network. And of course your computer can enable file sharing for other network users to access your computer. A wireless system also works in an ad-hoc mode (also known as peer-to-peer mode), in which wireless devices communicate with each other directly and do not use an access point.



Enable WLAN Module

Press **Fn + F9** or the WiFi button in **Control Center** to enable WLAN module. The blue dot lights when the module is enabled.



1. Once the module is enabled, the **Connect to a network** wizard will open automatically and scan for the available networks within wireless signaling coverage.

Connect

When a network is connected, the networking icon in the notification area will turn to green ; otherwise it appears white with a red cross on it .

If you are trying to connect to the internet for the first time, or the utility cannot find any network, you will be asked to set up a connection. Select a network that is found to make up the connection with your connection utility.

For more information about changing connection, switching between connection modes and the advance setting and usage of your connection utility, see the **Help** files of your connection utility or operating system.

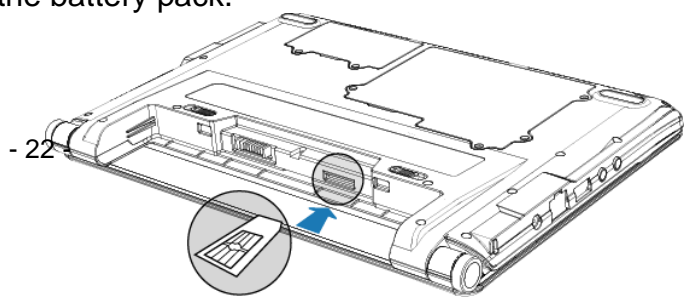
Connect to Wireless Wide Area Network (Optional)

Your computer is optionally equipped with a WWAN module that uses cellular carriers for data transmission, by which the voice deliverance and data transmission can be made wirelessly at a very high speed. To connect to WWAN, you must have an access account and a SIM card and dialing profile from your wireless WAN service provider. The SIM card acts as an access permission key for your account.

To set up a WWAN connection:

Install SIM Card

1. Power off your computer and remove the battery pack.
2. Find the SIM card slot in the battery



bay. Insert the SIM card into the slot. SIM card would be push-locked.

To remove the SIM card:

1. Power off the computer and remove the battery pack.
2. Push-eject the SIM card.
3. Remove the SIM card.



Note: If the SIM card cannot be push-inserted, make sure if it is inserted in the right direction before re-insertion. Do not force the insertion, so as not to damage the SIM card.

Enable WWAN Module

To enable WWAN, press either **Fn+F10** or the WWAN button in **Control Center**. (Once the module is enabled, the blue dot lights.)



After the module is enabled, the connection utility opens automatically and scans for service provider's networks.

Connect & Access Services

Depending on the WWAN module that is built in, the connection utility to work with will be different. For detailed information on using the connection utility, see its **Online Help**.

Use Bluetooth Services

Bluetooth is a wireless protocol for exchanging data over short distances. Within Bluetooth signal radius, devices such as computers, cellular phones, PDA, printers, faxes, keyboards, and pointing devices are in the position to share its files and services to other devices and vice versa as long as they are equipped with Bluetooth modules and have the permissions to do so.

Computers built-in with Bluetooth modules are able to share and access various Bluetooth services such as:

- Personal area networking
- Dial-up networking
- Serial port connection
- File transfer
- LAN access
- Synchronization and PIM data exchange
- Printing
- Human interface device (Keyboard, Mouse) connection
- Faxing
- Connecting a headset
- Audio distribution

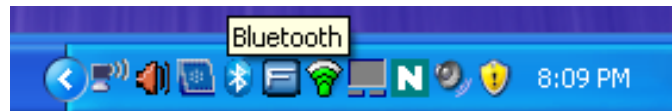
To make Bluetooth connection:

Enable Bluetooth Module

1. Press **Fn+F11** or the Bluetooth button in **Control Center** to enable Bluetooth module.
(When the module is enabled, the blue dot lights on.)



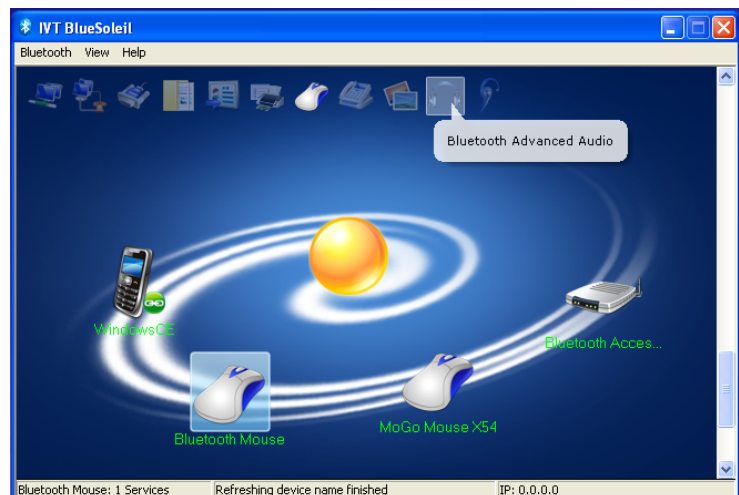
2. Once the module is enabled, the Bluetooth icon in the notification area turns to blue and a message "Bluetooth hardware found." shows above it.



3. Right-click on the Bluetooth icon in the notification area and select **Display Classic View**. The Bluetooth utility **IVT BlueSoleil** opens.

Connect & Access Services

1. Power on the Bluetooth device you are going to use.
2. In **IVT BlueSoleil** window, click **Bluetooth** in the menu bar. Select **Search Devices** from the menu. The icon of the Bluetooth device that you are going to use will show up in blue color indicating idle status.
3. Right-click on the icon of the device either among **My Devices** or **My Services** icons and select **Connect Bluetooth Human Interface Device** from the menu to trigger the connection.
4. Once the device/service is connected, its icon turns to green indicating connected status.
5. If accessing that device/service requires a password, you will be asked to provide it.



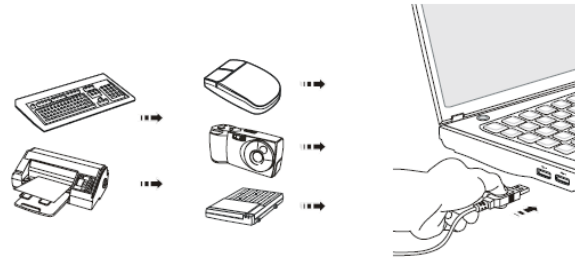
Disconnect

You can break the connection anytime. However if you force the disconnection during file transmission, files may be lost. To break Bluetooth connection:

1. Open up **IVT BlueSoleil** window.
2. Right-click on the icon of the device that you are going to disconnect either among **My Devices** or **My Services** icons and select **Unplug** from the menu.

Use USB Devices

There are three Universal Serial Bus (USB) connectors on your computer. You can connect USB devices such as mouse, keyboards, or printer to either connector.



Connect

1. Plug your USB device to one of the USB connectors on your computer.
2. System will detect the device you just connect. If system is able to install a driver automatically, you'll be notified that the device is ready to use. Otherwise, system will prompt you to insert a disc containing the driver for the device.
3. For some devices, once it is ready to use, its hardware icon appears in the notification area.

Disconnect

1. Most USB devices can be removed and unplugged at will. However, before unplugging storage devices, such as USB flash drives, make sure your computer has finished saving to the device.
2. Right-click on the **Safely Remove Hardware** icon in the notification area to disconnect the USB device.



3. Unplug the USB device from your computer.



Note: When plugging USB devices, note the following:

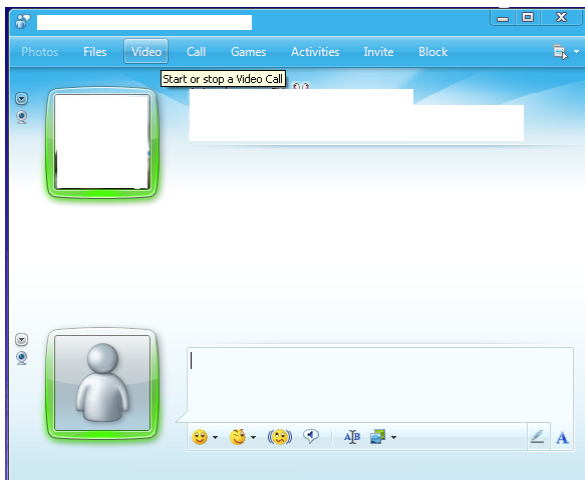
1. Make sure the USB icon on the connector is facing upwards. Connecting a USB cable incorrectly can damage the connector on your computer.
2. Be sure to remove the hardware on your system before unplugging the USB device, so as not to damage your USB device or the files stored therein.

Use Web Camera

Your computer has a built-in web camera of 0.3 mega pixel. Make use of it in conjunction with a video application program.

1. Press **Fn + F12** or use **Control Center** to enable web camera.

2. Open your favorable application that supports video messaging, such as MSN and Yahoo Message.



For more information about using your web camera, see the online help of your application program.



Tip

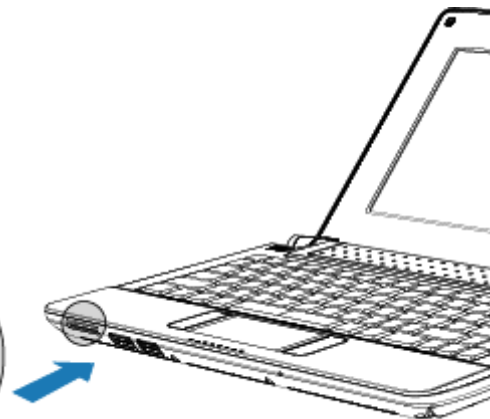
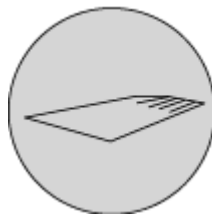
If the computer you purchased doesn't have an operating system preinstalled, you have to install the driver for the web camera yourself. Such driver is included in the CD bundled.

Use Card Reader

Your computer has a card reader built-in that supports hot swapping. It can read memory cards of SD, MMC, and XD.

Install Memory Card

1. Have the upside of your memory card face upwards.
2. Push-insert the memory card into the card reader slot on your computer.
3. After the memory card is inserted, system will build up the communication with it and its icon will show up in the notification area. (The memory card is treated as a USB device.)



Uninstall Memory Card

1. Right-click on the **Safely Remove Hardware** icon in the notification area to disconnect your memory stick.
2. Push-eject the memory card.



Note: Attentions for Using Card Reader:

- Distinguish the upside and downside of your memory card before inserting it. The memory card won't be able to be inserted upside down.
- Do not remove the memory card before it is safely removed by the system, so as to avoid damage to the files stored in it.

Use GPS (Optional)

Your computer is built-in with a GPS module that supports the reception of radiowave signals from 48 satellites at the most. By such GPS module, your computer functions for navigation or positioning in conjunction with an application program.

Enable GPS Module

Press **Fn+Shift** or use the GPS button in **Control Center** to enable GPS module.

1. Once the module is enabled, the signal reception utility preinstalled on your system opens automatically and its icon shows up in the notification area while in the meantime the utility has being receiving and processing the signals sent from satellite. To change receiving configuration, double-click the utility icon in the notification area to make change in the utility.





Use of Received Signals

With appropriate application programs, satellite signals received can be further used for positioning, navigation, navigation speed and so on. See the online **Help** for your application program for detailed information.

Use Sound System

Your computer is built-in with a 3D surround sound system which encompasses speakers, microphone and audio-out and microphone-in jacks. For audio output, you can connect audio devices such as headphone, external speakers and audio amplifier. For audio input, you can either make use of the built-in microphone or connect external audio devices such as microphone to achieve better sound effect.

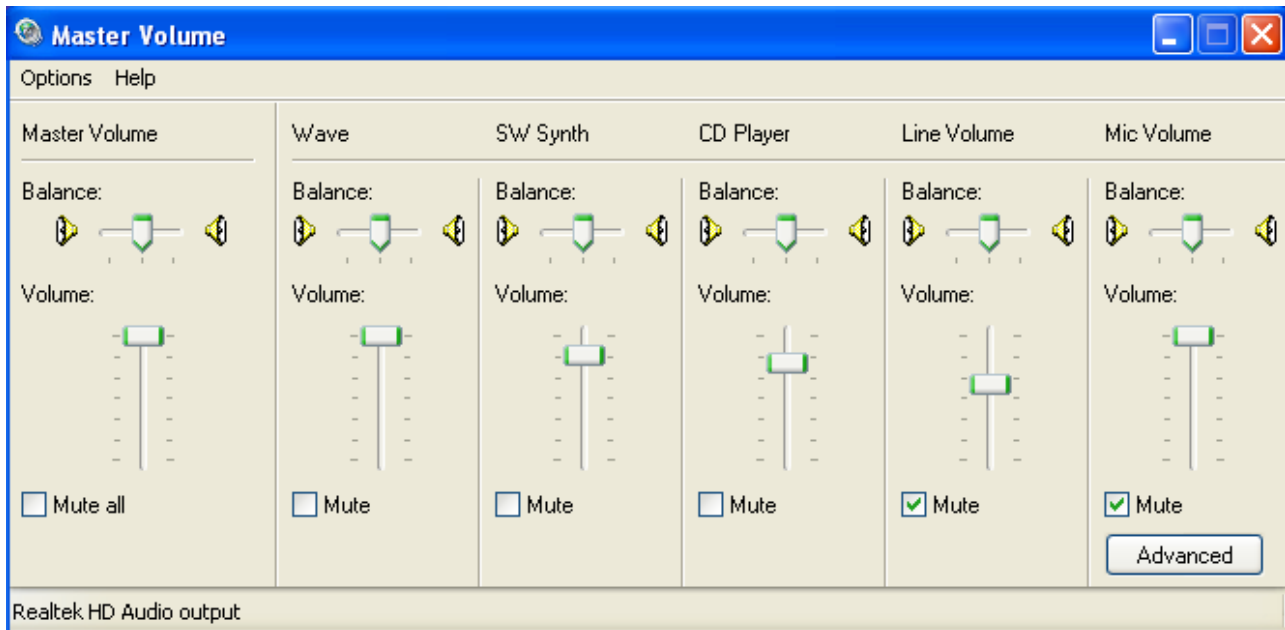
Connect Audio Devices

To connect external audio devices such as headphone or speakers, plug their cables to the microphone-in jack  or the audio-out jack  on your computer.



Adjust Sound

To adjust sound, use the sound utility. Double-click on the icon of sound utility in the notification area to configure speaker, microphone, and line-in. For more information, check the **Help** of the sound utility.



Chapter 5. Advance

BIOS Setup Utility

BIOS is the short form for **Basic Input/Output System**. It is the firmware interface stored on the hardware of a PC. It functions for the following:

- Power-On Self Test (POST): Testing if the states of CPU, memory and other controllers are normal.
- System Devices Initialization: Identifying, testing, and initializing system devices such as memory, motherboard chipset, video display card, and other peripheral cards.
- System Configurations: BIOS carries the basic configurations for various devices on a computer such as display, keyboard, processor, and memory.
- Service Routine Interruption: BIOS carries the interrupt handlers for the operating system or software programs to call such as INT 10H.
- Load Operating System: BIOS reads the Master Boot Record into memory to begin and start operating system.

By **BIOS Setup** utility, you can access and change the core settings on your computer. Most users will find the default settings optimal for their needs.



Note

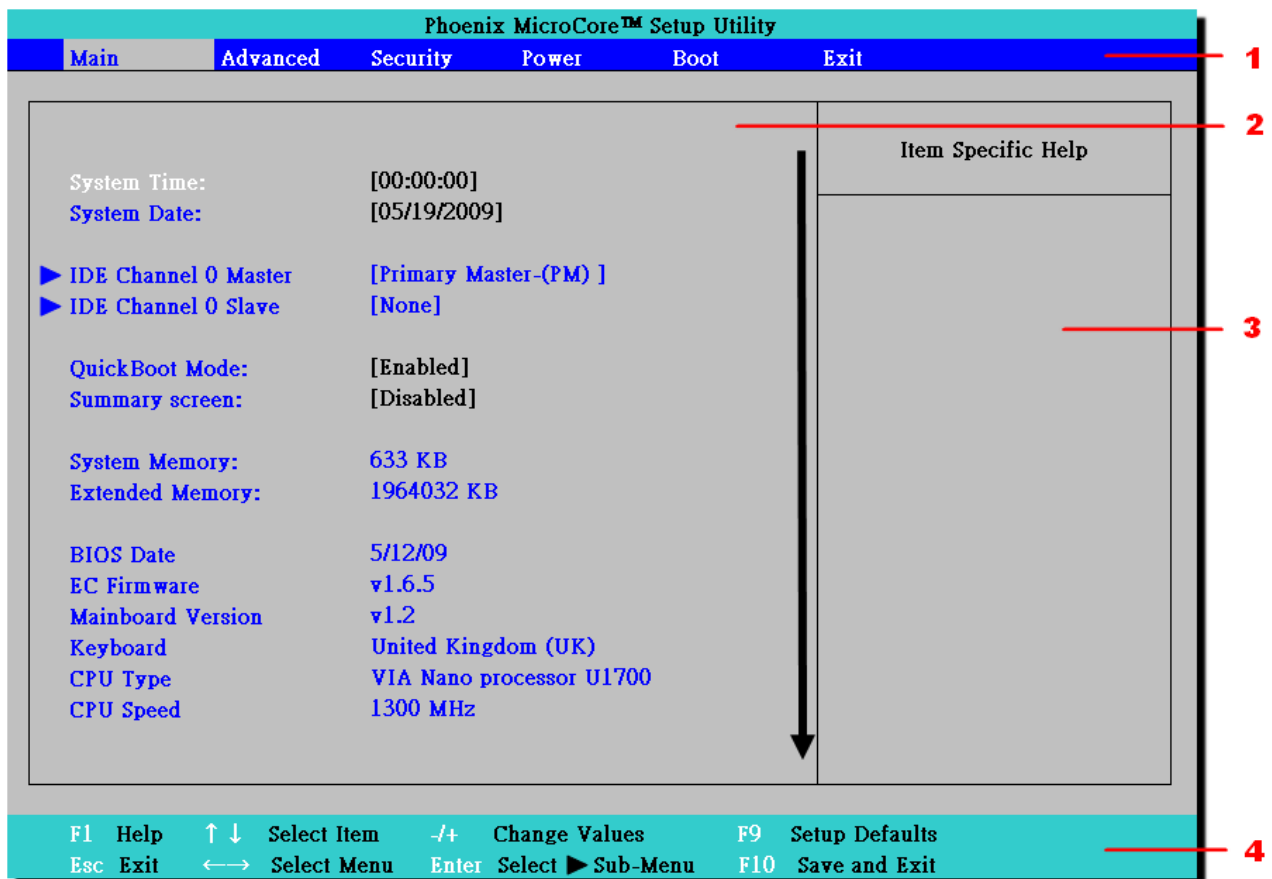
- Be sure you understand any change you make to BIOS settings. Choosing incorrect settings can result in the difficulty in booting up your computer.
- The BIOS firmware in your computer is subject to update without notice. To upgrade your BIOS firmware, visit manufacturer's website for updates.

Occasions to Change BIOS Settings

- Error message is displayed on screen and requests you to make change to **BIOS Setup** when you boot up computer.
- You want to customize the settings.
- You want to load the default settings.

Access BIOS Setup

1. Turn on your computer.
2. When seeing booting logo on screen, press **F2** to enter **BIOS Setup**.



(1) Main Menu (2) Setup Options (3) Item Specific Help (4) Keyboard Operation Guide

Keyboard Operation



Use these left & right arrow keys to select menus on menu bar.



Use these up & down arrow keys to select fields in current menu.



Selects next higher value.



Select next lower value.



Display **General Help**.



Exits **Setup** or returns to previous menu when in sub-menus.



Moves the cursor between the fields.



Enters sub-menus.

The Setup

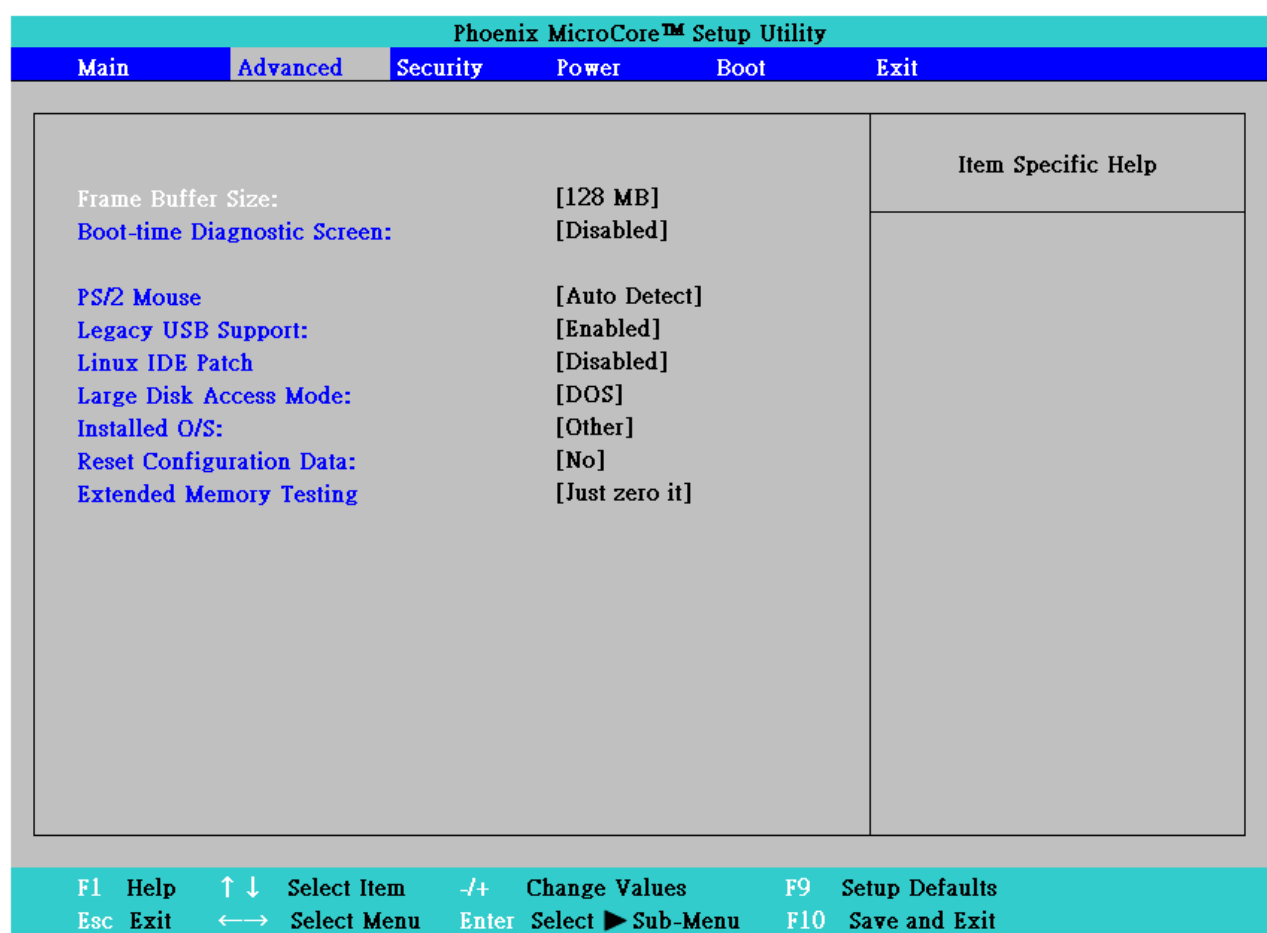
Main Menu

Phoenix MicroCore™ Setup Utility	
Main	Advanced Security Power Boot Exit
System Time:	[00:00:00]
System Date:	[05/19/2009]
▶ IDE Channel 0 Master	[Primary Master-(PM)]
▶ IDE Channel 0 Slave	[None]
QuickBoot Mode:	[Enabled]
Summary screen:	[Disabled]
System Memory:	633 KB
Extended Memory:	1964032 KB
BIOS Date	5/12/09
EC Firmware	v1.6.5
Mainboard Version	v1.2
Keyboard	United Kingdom (UK)
CPU Type	VIA Nano processor U1700
CPU Speed	1300 MHz
Item Specific Help	
F1 Help ↑ ↓ Select Item -/+ Change Values F9 Setup Defaults Esc Exit ← → Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit	

● System Time	Sets system time, fields in [hh:mm:ss]
● System Date	Sets system date, fields in [mm/dd/yyyy]
● IDE Channel 0 Master	Displays the information of the primary IDE device that connects to computer's Serial-ATA connector. System will generate the information of such device itself. Press Enter key to enter the sub-menu. The type of this primary IDE device is set to [Auto] by default.
● IDE channel 0 Slave	Displays the information of the secondary IDE device that connects to computer's Serial-ATA connector. System will generate such information itself. Press Enter key to enter the sub-menu. The type of this secondary IDE device is set to [Auto] by default.
● QuickBoot Mode	Selects the boot mode for your computer. It is set to [Enabled] by default.
● Summary screen	Selects if to display hardware information at boot. It is set to [Disabled] by default.
● System Memory	Displays the data storage capacity of the RAM integrated on the motherboard of your computer.
● Extended Memory	Displays the data storage capacity of the extended memory.

● BIOS Date	Displays BIOS version date.
● EC Firmware	Displays EC Firmware version.
● Main board	Displays motherboard version.
● Keyboard	Displays keyboard language.
● CPU Type	Displays the information of CPU.
● CPU Speed	Displays CPU speed.

Advanced Menu



● Frame Buffer Size	Allocates frame buffer size, which is set to [128 MB] by default.
● Boot-time Diagnostic Screen	Selects if to display boot-time diagnostic screen at boot.
● PS/2 Mouse	Selects to enable/disable PS/2 mouse. It is set to [Auto Detect] by mouse.
● Legacy USB Support	Selects if to support legacy USB port. It is set to [Enabled] by default.
● Linux IDE Patch	Selects if to support Linux IDE Patch. It is set to [Disabled] by default. However, it needs to be enabled when installing certain LINUX versions.
● Large Disk Access Mode	Selects if to enable large disk access mode. It is set to [DOS] by default.
● Installed O/S	Sets the installed operating system, which is set to

[Other] by default.

- Reset Configuration Data Selects if to reset extended system configuration data, which is set to [No] by default.
- Extended Memory Testing Selects if to test extended memory.

Security Menu

Phoenix MicroCore™ Setup Utility		
Main	Advanced	Security
<div>Supervisor Password Is: Clear</div> <div>User Password Is: Clear</div> <div>Set Supervisor Password [Enter]</div> <div>Set User Password [Enter]</div> <div>Diskette access: [Supervisor]</div> <div>Fixed disk boot sector: [Normal]</div> <div>Virus check reminder: [Disabled]</div> <div>System backup reminder: [Disabled]</div> <div>Password on boot: [Disabled]</div>		<div>Item Specific Help</div>
<div>F1 Help ↑ ↓ Select Item -/+ Change Values F9 Setup Defaults</div> <div>Esc Exit ← → Select Menu Enter Select ► Sub-Menu F10 Save and Exit</div>		

- Supervisor Password Is Displays computer's supervisor password state. **Clear** represents no password being set up yet while **Set** represents otherwise. If there has been a supervisor password set up, you will be asked to provide such password when accessing **BIOS Setup**.
- User Password Is Displays computer's user password state. **Clear** represents no password being set up yet while **Set** represents otherwise. If there has been a user password set up, you will be asked to provide such password when accessing **BIOS Setup**.
- Set Supervisor Password Sets up a supervisor password. Press **Enter** key to set up.
- Set User Password Sets up a user password. Press **Enter** key to set up.
- Diskette access Displays the user that has the permission to access diskette.
- Fixed disk boot sector Selects if to enable [Write Protect] to disk boot sector. It is set to [Normal] by default.

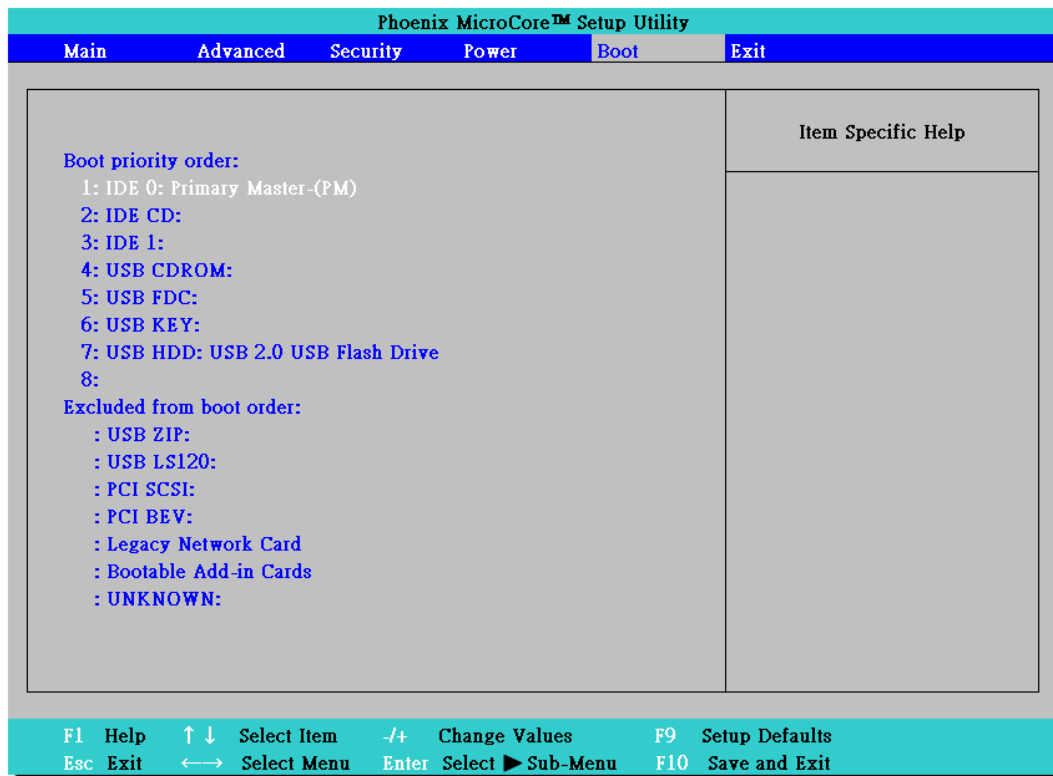
● Virus check reminder	Displays virus reminder message at boot (daily, weekly, or monthly). It is set to [Disabled] by default.
● System backup reminder	Displays backup reminder message at boot (daily, weekly, or monthly). It is set to [Disabled] by default.
● Password on boot	Displays the state of boot password, which is set to [Disabled] by default.

Power Menu

Phoenix MicroCore™ Setup Utility						
Main	Advanced	Security	Power	Boot	Exit	
				Item Specific Help		
Battery				Plugged in		
AC Adapter				Plugged in		
Fully Capacity				4,440 mAh		
Battery Capacity				0 mAh (0%)		
Battery Current				1,435 mA		
Battery Voltage				10,820 mV		
Battery Status				0x890		
Battery Temperature				27.3C (81.1F)		
Mainboard Temperature				49C (120F)		
CPU Temperature				54C (129F)		
Fan Speed				4,425 RPM (2/7)		
CPU Voltage				899 mV		
1.2V Voltage				1,189 mV		
3.3V Voltage				3,275 mV		
DC Input Voltage				19,292 mV		
F1	Help	↑ ↓	Select Item	-/+	Change Values	
Esc	Exit	← →	Select Menu	Enter	Select ► Sub-Menu	
					F9	Setup Defaults
					F10	Save and Exit

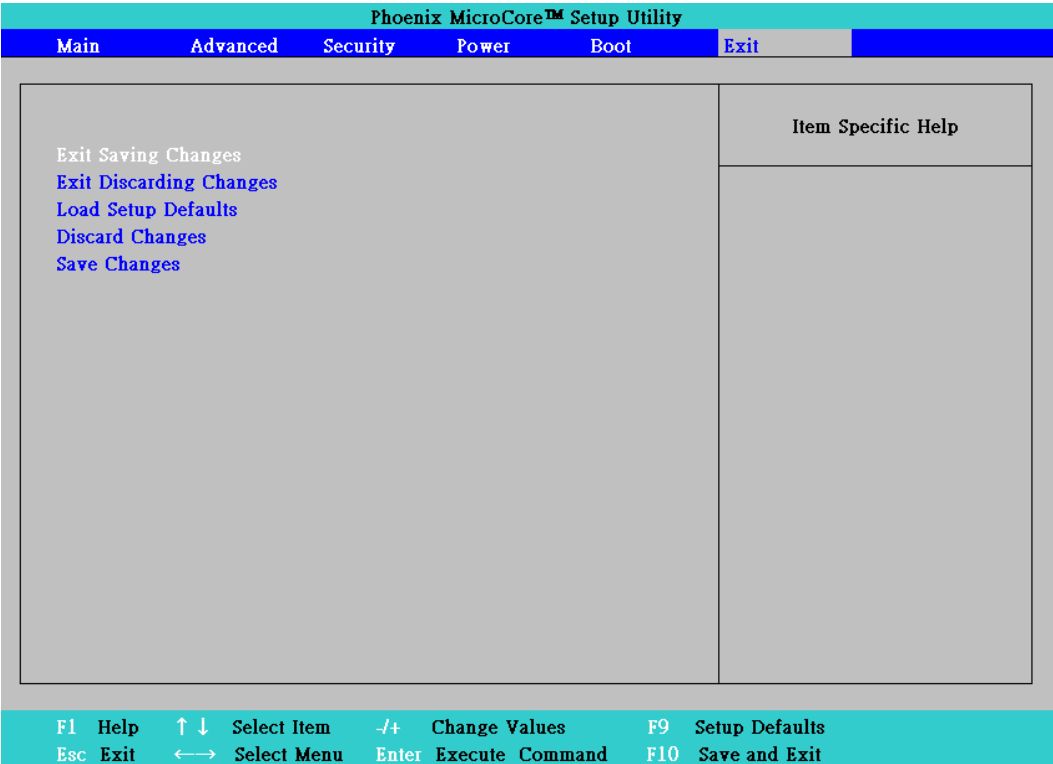
● Battery	Displays battery state.
● AC Adapter	Display the state of external (AC) power supply.
● Fully Capacity	Displays the capacity when battery is charged to the full.
● Battery Capacity	Displays current battery capacity.
● Battery Current	Displays current battery current.
● Battery Voltage	Displays current battery voltage.
● Battery Status	Display battery status.
● Battery Temperature	Displays current battery temperature.
● Main board Temperature	Displays current motherboard temperature.
● CPU Temperature	Displays current CPU temperature.
● Fan Speed	Displays current fan speed.
● CPU Voltage	Displays current CPU voltage.
● 1.2V Voltage	Displays 1.2V charging voltage.
● 3.3V Voltage	Displays 3.3V charging voltage.
● DC Input Voltage	Displays DC input voltage.

Boot Menu



- **Boot priority order** Configures boot device priority. The priority descends from 1 to 8. Press < + > and < - > keys to move the device up or down.
- **Excluded from boot order** Excludes or includes the device to boot.

Exit Menu



- | | |
|---------------------------|--|
| ● Exit Saving Changes | Exit BIOS Setup and save changes to CMOS. |
| ● Exit Discarding Changes | Exit BIOS Setup without saving changes to CMOS. |
| ● Load Setup Defaults | Load default values for all setup items. |
| ● Discard Changes | Load previous values from CMOS for all setup items. |
| ● Save Changes | Save changes to CMOS. |

System Recovery

In the event that your operating system gets damaged or you wish to restore your system back to the factory default state, you only need to carry out system recovery without reinstalling the operating system.



Warning! If your computer is a version built-in with VIA processor, Nano or C7 series, you have to enable **Linux IDE Patch** under the **Advanced** menu of **BIOS Setup Utility** before recovery and disable it back after recovery. Because **Microsoft Windows** operation system would be unstable if **Linux IDE Patch** is set enabled. To enable/disable **Linux IDE Patch**, see [Chapter 5: Advance](#) > [The Setup](#) > [Advanced](#) on page 32 to know how to make change to **Linux IDE Patch** setting.

System recovery can be carried out, either

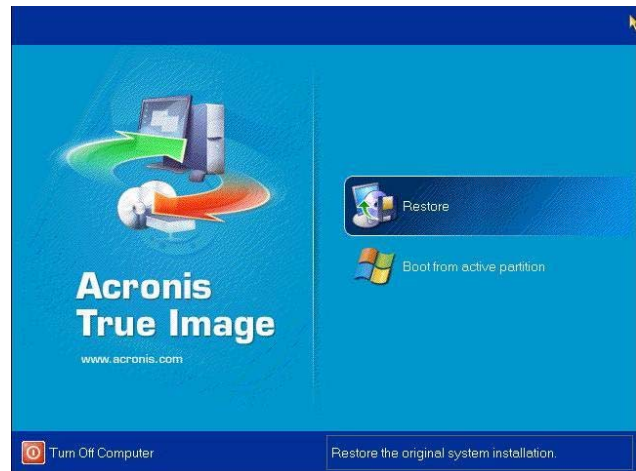
1. through the hidden partition of hard disk (if it still functions well); or
2. from the recovery DVD, which is an optional item.

**Note**

- If your hard disk drive is damaged already, you won't be able to recover your system by its hidden partition.
- If the hard disk drive is still readable, be sure to back up your computer files before recovery.
- Make sure your computer is running on external power whether before or during the system recovery, so that system recovery won't fail due to power outage, which further leads to the difficulty in booting up your computer.

Recover System from Hard Disk Hidden Partition

- 1 Restart system.
- 2 When the message “**Press F9 for Acronis Startup Recovery Manager**” shows on screen, press **F9** key to proceed. An “**Acronis True Image**” window will display. Click **Restore**.
- 3 A “**Confirmation**” querying window appears. Press **Yes** button to proceed.
- 4 Once recovery completes, a “**Congratulations!**” shows up. Press **Exit** button to quit Acronis recovery utility.
- 5 Restart your computer and go through Windows initial setup.



Recover System from Recovery DVD (Optional)

To recover system from recovery DVD, you need an external DVD ROM with USB connector that runs on external power. To carry out system recovery:

1. Connect both your computer and DVD ROM to external power and connect the DVD ROM to your computer.
2. Power on your computer. Open the DVD ROM and insert the recovery DVD.
3. Press **F2** key when booting logo appears on screen to enter **BIOS Setup** utility. Configure DVD ROM drive as the top priority for “Boot Device”.
4. System will restart with the support of DVD ROM.
5. Once system restarts, an “**Acronis True Image**” window will display.
6. Follow steps 3 to 5 in previous section **Recovering System from Hard Disk Hidden Partition** to finish recovery.

Appendix

Power Specification

DC-in Power Supply (through DC-in Power Jack)

Input rating: 19Vdc, 3.42A

AC Adapter

Model No.: ADP-65HB

Input rating: 110~240V, 1.5A, 50~60HZ

Output rating: 19V, 3.42A

Battery

48Wh 3-cell rechargeable battery pack

Charging: direct DC charging