



## 10. 2" Intel Atom netbook

HSUPA 3.5G/GPS Ready



**CyberBook N10**

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## **User Guide**


**Original Issue: 2008/11**


This manual guides you in setting up and using your new notebook computer. Information in this manual has been carefully checked for accuracy and is subject to change without notice.


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**Please read this manual carefully before using the computer.**

The following signs call attention to features and operations that may be dangerous to the user. Follow the instruction closely to reduce the risk of physical harm or damage to the equipment.

 **DANGER:** Not following the instruction will result in immediate death or serious injury.

 **WARNING:** Not following the instruction could result in death or serious injury.

 **CAUTION:** NOT following the instruction could result in death or serious injury.

 **NOTE:** Indicates important information that helps you make better use of your computer.

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## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

### **Chapter 1.Important Safety Instructions**

**Please read this manual carefully before using the Computer.**

These safety instructions will ensure many years of safe enjoyment from the product. Set up your computer on a flat, stable surface. (We are not responsible for the problems and damages caused by in correct use of the computer in an unsafe environment.)

#### **Selecting a place to work**



#### **WARNING**

Do not operate your computer near water; for example, in a bathroom or near a swimming pool.

The computer may not function correctly, and there is the risk of electric shock.. Operate the computer within a temperature Range of 50 to 95 degrees F (10 to 35 degrees C) and 20 to 80% of relative humidity.

Safely dispose of the packing materials, such as desiccant and plastic bags. Children may swallow desiccant or suffocate from plastic bags.



#### **CAUTION**

Keep your computing environment clean and free of dust. There

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

Is a risk of dysfunction to the computer.

Keep your computer away from electromagnetic fields Exposure to the electromagnetic field may result in loss of data in the hard disk drive and/or damage to the LCD (or LED).

Do not block the fan louvers and leave enough space around the computer for ventilation. The computer may overheat and result in fire or injuries.

### **Using the battery pack**



#### **WARNING**

Use only a battery pack recommended.

Using a battery pack of a different type may result in explosion.

Keep metallic objects, such as keys and clips, away from the battery pack..

Objects that conduct electricity can short-circuit the battery pack and result in fire and/or injuries.

Keep the battery pack away from heat.

There is a risk of explosion or fire.

Do not short-circuit battery terminals.

There is a risk of explosion.

## **CHAPTER 1.IMPORTANT SAFETY INSRRUCTIONS**

Do not subject the battery pack to temperatures above 140 degrees F (60 degrees C).

There is a risk of explosion of fire

Keep the battery pack away from children and/or pet.

There is a risk of injury and damage to the battery pack..

Do not put the battery pack in the water.

There is a risk fire or damage the batter pack..

Be cautious when handing the battery pack's hooks. It may hurt you.

Lock the battery catch lock at the bottom surface of t the Notebook. There is a risk of battery damage.

### **Replacing and disposing of the backup (standby) battery**

#### **WARNING\**

If the backup battery is in correctly replaced, there is danger of explosion.

The lithium battery contains lithium and can explode if it is not properly handled or disposed of.

Replace only with a battery of the same type.

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

### **Connecting to an AC power source**

#### **WARNING**

Do not use loose or damaged power plugs.  
There is a risk of electric shock or fire.

Use properly grounded outlet.  
Connecting the computer to an outlet without proper grounding may result in electric shock and damages to your computer.

Do not touch or grab the power plug with wet hands.  
There is a risk of electric shock.

Hold the plug body when removing the power cord from an outlet.  
There is a risk of fire and damages to the computer.  
Use your computer at the proper voltage/current level indicated.  
Supplying improper levels of voltage/current may result in electric shock, fire, and/or damage to the computer.

If you hear a noise from the power cord or outlet, unplug the power cord immediately, and contact the customer service for help.

There is a risk of fire or electric shock.  
Make sure the power plug fits snugly into the electrical outlet.

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

Loose fit may result in fire.

Do not bend or place a heavy object on top of the power cord.

Keep the children and pets from damaging the power cord.

Damaged power cord may result in electric shock or fire.

Keep the power cord and plug clean and free of dust.

There is a risk of fire.

If an object or liquid enters the computer or an adaptor, remove power cord, battery, and any other cables from the computer, and contact the customer service for help.

There is a risk of an electric shock, fire, or damage to the computer.

Before cleaning the computer, disconnect the power cord, battery, and any other cables from the computer.

There is a risk of electric shock or damage to the computer.

### **Using the computer**



#### **WARNING**

For cleaning your computer, use mild detergent or computer cleaning products.

Be sure to dry completely before using the computer.

Using the computer without completely drying it may result in electric shock or fire.

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

During a lightning storm, disconnect the power cord, telephone line, and LAN cable from the computer.

There is a risk of electric shock or fire.

Do not place water, chemicals, or liquid of any kind on the computer. Liquid of any kind entering inside the computer may result in an electric shock, fire, of damage to the computer.

Do not connect the modem directly to multi-line telephone.

There is a risk of fire or damage to the computer.

If you drop your computer, remove the power cord and battery pack, and then contact the customer service for check up.

There is a risk of electric shock or fire.

Do not place a burning candle or cigarette on the computer.

There is a risk of fire.

If you see or smell smoke from the computer or adaptor, turn off the computer, remove the power cord, and then contact the customer service for help. There is a risk of fire.

The LCD monitor's fluorescent lamp include hydrargyrum

Avoid direct contact with liquid from the broken LCD. If it spills into eyes or the other parts of your body, wash it out several times with clean water. If you feel something different, contact a

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

doctor or a health administrator immediately.



### **CAUTION:**

Do not place an object, such as a pen or clip, on the keyboard.  
If you close the LCD cover with an object on the keyboard, you may damage or break the LCD.

Do not touch or scratch the LCD with sharp objects.  
The LCD may be damaged.

Be sure to turn off the computer before closing the LCD cover.  
The computer may overheat, and be damaged or deformed.

Do not exert excessive pressure on the LCD.  
LCD is made of glass, and an excessive force can break the LCD.  
Follow the instructions in the user's guide.  
There is a risk of damage to the computer.

Do not lace objects into the PC Card slot.  
There is the risk of electric shock or injury.

Upon computer of any service or repairs, ask service technician to perform safety checks.  
Ignoring safety checks may result in electric shock or fire.

Use the Wireless LAN at least 5m away from a microwave oven

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

or plasma lamp.

When using the Wireless LAN near a plasma lamp, use the channel 11, 12, or 13, the connection may be unavailable or slow.

Keep the computer away from heat.

The computer may deform and there is the risk of fire.

When attaching an external device, make sure the connector from the device and the computer are of the same type.

There is a risk of damage to the computer.

Do not insert a damaged CD-ROM or floppy disk.

There is a risk of damage to the computer.

### **Carrying and storing the computer**



#### **WARNING**

Before moving the computer, turn the power off and remove all the cables.

You may trip over the loose cables and fall.

When traveling on an airplane, follow the instruction by flight attendant. Using the computer on an airplane may result in an airline accident.

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

Do not travel with LCD monitor open.

Do not expose your computer to the direct sunlight in a closed area such as inside a car.

Prolonged exposure to high temperatures may deform the computer and also result in fire.

### **Preventing data lose (handling hard disk drives)**



#### **CAUTION**

Be cautious when handling the hard disk drive.

The hard disk drive is very delicate to any physical impact.

Always make backups for your data.

We are not responsible for the data lose caused by users.

The data on the hard disk or the drive itself may be damaged in the following situations:

- Exposure to a physical shock during the disassembling or installing process.
- The computer is reset (rebooted), for example by power outage, while the hard disk drive is operating..
- Exposure to virus.
- The computer is turned off during operation.
- Exposure to a physical shock while the hard disk drive is operating.

To prevent data lose due to hard disk drive damages, always

## **CHAPTER 1.IMPORTANT SAFETY INSTRUCTIONS**

backup your data. We ate not responsible for the lost of data.

### **Ergonomic information**



#### **WARNING**

Adjust the display position to avoid glare or reflections from overhead lighting.

The top of the display should be on or below the level of your eyes.

Keep your head and neck in an upright position.

Keep your forearms, wrists, and hands in a horizontal position.

Adjust your chair to keep your arms and hands in a comfortable position.

Using the computer in the same position for a prolonged period of time may cause discomfort your body.

Take short frequent breaks from working with your computer. No more than 2 hours of computing day is recommended.

Stretch periodically to reduce muscular discomfort. Check the volume level Check if the volume level is too high before using headphones.

Do not use the headphones for a prolonged period of time.

# CHAPTER 2. GETTING TO KNOW YOUR COMPUTER

## 2. Getting to Know Your Computer

### Top View



### NOTE:

The illustrations in this manual may differ from the actual product.

#### 1 Web Camera

Built-in camera for video capture, conferencing, and chat.

#### 2 Display Panel

The color display with TET technology provides clear and brilliant text and graphics.

## CHAPTER 2. GETTING TO KNOW YOUR COMPUTER

### 3 Power Button

Use the Power button to turn on the computer

### 4 Built-in stereo speakers

### 5 AC adapter connector

Connects to the AC adapter to power on the computer and charge the battery when the computer is not in use.



#### **CAUTION:**

To prevent damage to the computer and battery pack, use the dedicated AC adapter only.

### 6 LAN Connector

If you are using a cabled network signal, this connects your computer to a network or broadband device.

### 7 VGA Connector

Connect to monitor or projector.

### 8 USB 2.0 connectors

Connect to USB devices, such as a mouse, keyboard, printer, external drive, or MP3 player.

## **CHAPTER2.GETTING TO KNOW YOUR COMPUTER**

### **9 Multi-Media Reader Slot**

Provides a fast and convenient way to view and share digital photos, music, videos, and documents stored on the following digital memory cards:

SD/Mini SD/MMC/RSMCC/MS/MS pro/MS Duo

### **10 Headphone jack**

Connects to a pair of headphones, or sends audio to a powered speaker or sound system.

### **11 Microphone jack**

Connects to a microphone or input signal for use with audio programs.

### **12 Click Button**

Provide left-and right-click functions like those on a mouse.

## CHAPTER 2. GETTING TO KNOW YOUR COMPUTER

### 13 System status indicators



The system status indicators show the current status of your computer.

#### **Power indicator light**

The light operates as light

- Solid Green: The system is on.
- Flashing Green: The system is in standby mode.
- Off: The system is off or in hibernate mode.

#### **Battery status light**

The light operates as follows:

- Solid Green: The battery is fully charged.
- Solid Green: The battery is charging
- Flashing Red: The battery is low.

#### **HDD Status Light:**

Lighting up when data is being written to or read from the hard disk.

## **CHAPTER2.GETTING TO KNOW YOUR XOMPUTER**

### **((( Wireless LAN Status Light:**

The light operates as follows:

- Off: The wireless card does not have the power or RF is off.
- Slow Flashing Green: The wireless client is not associated with the network. Slow blinking (3-4seconds interval): the wireless card powered on and attempting to connect.
- Fast Flashing Green: The wireless card transmitting and/or receiving data by the rate depending on blinking speed.

### **Caps& Num Lock Status Light:**

The light operates as follows:

- Solid Green: The caps lock is active.
- Solid Red: The numeric keypad is active.
- Solid Orange: the Caps lock and Num Lock are active.

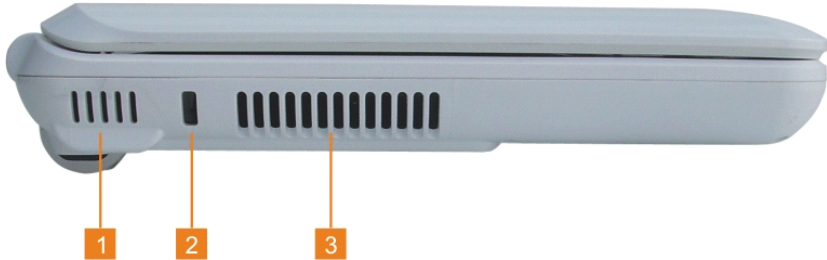
### **14 Touch inductive panel**

Provides the functionality of a mouse to move the cursor, drag or move selected items, and left-click by tapping the surface.

### **15 Keyboard**

## CHAPTER2.GETTING TO KNOW YOUR COMPUTER

### Left-side View



#### **1 Built-in stereo speakers**

#### **2 Security Keyhole**

Your computer comes with a security keyhole. You can purchase a security cable and lock to fit this keyhole.

#### **3 Fan louvers**

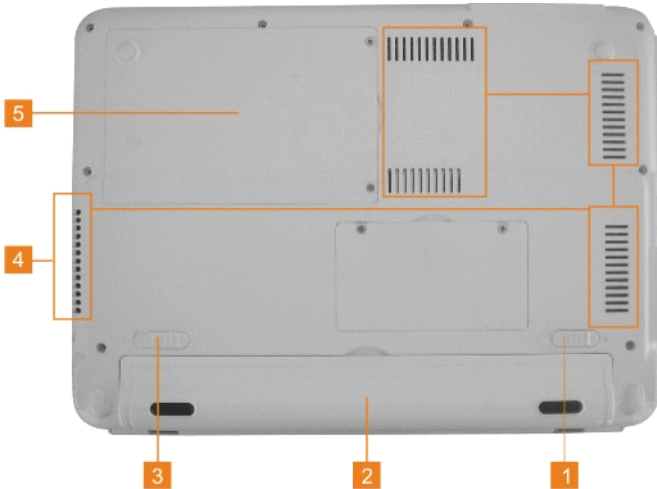
The fan louvers allow hot air to exhaust from the computer.

#### **! WARNING:**

Make sure that paper, books, clothing, cables or other objects do not block any of the fan louvers or else overheating of the computer may occur.

## CHAPTER 2. GETTING TO KNOW YOUR COMPUTER

### Bottom view



#### **1 Battery Latch-Manual**

The manual battery latch is used to keep the battery pack secured. Move the manual battery latch to the unlocked position to insert or remove the battery pack. Move the manual latch to the locked position after inserting the battery pack.

#### **2 Battery Pack**

#### **3 Battery Latch – Spring Loaded**

The spring-loaded battery latch keeps the battery pack secured in place. When you insert a battery pack, this latch automatically

## **CHAPTER 2. GETTING TO KNOW YOUR COMPUTER**

secures the battery in place. To remove the battery, hold this latch in the unlocked position.

### **4 Thermal vent**

The vents allow hot air to exhaust from the computer.



#### **WARNING:**

Make sure that paper, books, clothing, cables or other objects do not block any of the vents or else overheating of the computer may occur.

### **5 Hard Disk Drive**

The Hard Disk Drive is secured in a compartment.



#### **CAUTION:**

Do not disassemble or replace the hard disk drive by yourself! If you do need to, ask a Lenovo authorized service center or dealer to disassemble or replace it.

## CHAPTER 3.USING YOUR COMPUTER

### Chapter 3. Using Your Computer

#### Using the Battery Pack and AC Adapter

When you need to use your computer away from electrical outlets, you depend on battery power to keep you computer running. Different computer components consume power at different rates. The more you use the power-intensive components, the faster you consume battery power.

#### Your Computer Batteries

Your computer batteries enable you to do more, save more, and spend more time unplugged. Mobility has revolutionized business by enabling you to take your work wherever you go. With your computer batteries, you will be able to work longer without being tied to an electrical outlet.



#### **NOTE:**

The operating system may run slower when using the battery mode.

#### Removing and Replacing the Battery



#### **WARNING:**

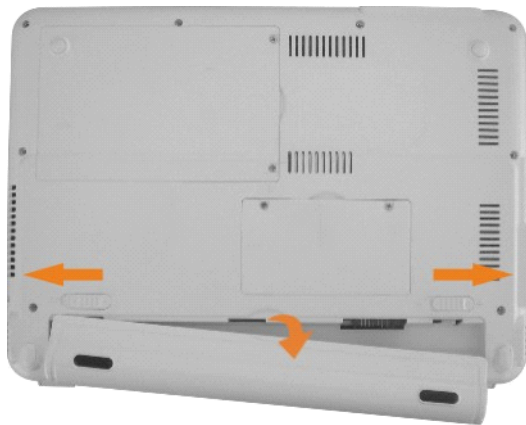
- Using an incompatible battery may increase the risk of fire or explosion. This computer should only use a battery purchased from us. Do not use batteries from other computers.
- Before removing the battery, shut down the computer, and

## **CHAPTER3.USING YOUR COMPUTER**

Remove external cables(including the AC adapter).

### **TO remove the battery:**

- ① Shut down the computer and turn it over.
- ② Slide the battery release latch to the unlock position and hold.
- ③ Slide the battery out.



**TO replace the battery, slide it into the bay until it clicks into place.**

### **Checking Battery Status**

You can determine the percentage of battery power remaining by using Windows Power options.

The rate at which you use battery power determines how long you can use the battery of your computer between charges. As

## CHAPTER 3. USING YOUR COMPUTER

each computer user has different habits and needs, it is difficult to predict how long a battery charge will last. There are two main factors:

- The amount of energy stored in the battery when you begin to work.
- The way you use your computer: for example, how often you access the hard disk drive and how bright you make the computer display.

### Connecting the AC Adapter

The power to run your computer can come either from the lithium-ion (Li-ion) battery pack provided with it, or from AC power through the AC adapter. While you use AC power, the battery charges automatically.

The AC adapter that comes with your computer has two basic components:

- ① The transformer pack that converts AC power for use with the computer.
- ② The power cord that plugs into the AC outlet and into the transformer pack.



#### **CAUTION:**

Using an improper power cord could cause severe damage to your computer. To use the AC adapter, do the following. Be sure to take these steps in the order in which they are given here.

- ③ Connect the power cord to the transformer pack.
- ④ Plug the power cord into an electrical outlet.
- ⑤ Connect the AC adapter to the AC power adapter jack of

## CHAPTER 3. USING YOUR COMPUTER

the computer.



### **WARNING:**

The AC adapter works with electrical outlets worldwide. However, power connectors and power strips vary among countries. Using an incompatible cable or improperly connecting the cable to a power strip or electrical outlet may cause fire or equipment damage.



### **NOTE:**

When you do not use the AC adapter, disconnect it from the electrical outlet.

Do not wrap the power cord tightly around the AC power transformer pack when it is connected to the transformer.

- You can charge the battery when the AC adapter is

### **CHAPTER 3. USING YOUR COMPUTER**

Connected to the computer and the battery is installed. You need to charge it in any of the following conditions:

- When you purchase a new battery
- If the battery status indicator (amber) starts blinking
- If the battery has not been used for a long time

Before you charge the battery, make sure that its temperature is at least 10 degrees Celsius (50 degrees Fahrenheit).

### **Charging the Battery**

When you check the battery status and find that the battery is low, you need to charge the battery or replace it with a charged battery.

If an AC outlet is convenient, first, connect the power cord to the transformer pack; second, plug the power cord into an electrical outlet; and then connect the AC adapter to the power jack of the computer.

The charging time is affected by the physical environment.



#### **NOTE:**

To increase the life of the battery, the computer does not start recharging the battery if the remaining power is no less than 95 percent.

### **Handling the Battery**



#### **WARNING:**

Do not attempt to disassemble or modify the battery pack.

Attempting to do so can cause an explosion or liquid leakage from the battery pack. A battery pack other than the one

## **CHAPTER 3. USING YOUR COMPUTER**

Specified by us, or a disassembled or modified battery pack is not covered by the warranty.



### **WARNING:**

If the rechargeable battery pack is incorrectly replaced, there is danger of an explosion. The battery pack contains a small amount of harmful substances. To avoid possible injury:

- Replace only with a battery of the type recommended by us.
- Keep the battery pack away from fire.
- Do not expose the battery pack to water or rain.
- Do not attempt to disassemble the battery pack.
- Do not short-circuit the battery pack.
- Keep the battery pack away from children.



### **WARNING:**

Do not put the battery pack in trash that is disposed of in landfills. When disposing of the battery, comply with local ordinances or regulations and your company's safety standards.

## **Opening and positioning the LCD panel**

Open the display panel. Adjust the display panel for comfortable viewing

## CHAPTER3.USING YOUR COMPUTER



### Turning On Your Computer

Press the power button to turn on the computer.



### Putting Your Computer to Sleep or Shutting It Down

When you finish working with your computer, you can put it to sleep or shut it down.

#### Putting your computer to Sleep

If you will be away from your computer for only a short time, put the Computer to sleep. When the computer is in sleep, you can

## CHAPTER 3. USING YOUR COMPUTER

quickly wake it and bypass the startup process.

To put the computer to sleep, do one of the following.

- Click **Start** and select **Sleep** from the Start menu.
- Press **Fn + Esc**.



### CAUTION:

Wait until the power indicator light starts blinking (indicating that the computer is in sleep) before you move your computer.

Moving your computer while the hard disk is spinning can damage the hard disk, causing loss of data.

To wake the computer, do one of the following.

- Press the **power button**.
- **Shutting Down Your computer**

If you are not going to use your computer for a day or two, shut it down.

To shut down your computer, click **Start** and select **shut down** from the **Start** menu.

## Using the Keyboard

Your computer has a numeric keypad and function keys incorporated in the standard keyboard.

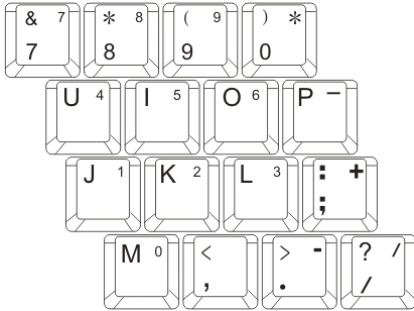
### Numeric Keypad

The keyboard has keys that, when enabled, work as a 10-key numeric keypad

To enable or disable the numeric keypad, press.

**Fn + Insert / NmLk.**

## CHAPTER 3. USING YOUR COMPUTER



\* The illustrations in this manual may differ from the actual product.

### Function Key Combinations

Through the use of the function keys, you can change operational features instantly. To use this function, press and hold the Fn

key **1** then press one of the function keys **2**



The following describes the features of each function key.

**Fn + Esc:** Put your computer in sleep mode.

**Fn + F1:** Enable/disable the built-in wireless device feature

**Fn + F2:** Turn on/off the LCD screen.

**Fn + F3:** Mute.

### **CHAPTER3.USING YOUR COMPUTER**

**Fn + F4:** Enable/disable the touch pad.

**Fn + F5:** Shift to other connected display devices.

**Fn + F6:** Decrease display brightness.

**Fn + F7:** Increase display brightness.

**Fn + F8:** Decrease computer volume.

**Fn + F9:** Increase computer volume.

**Fn + F10:** Turn on/off the LCD screen.

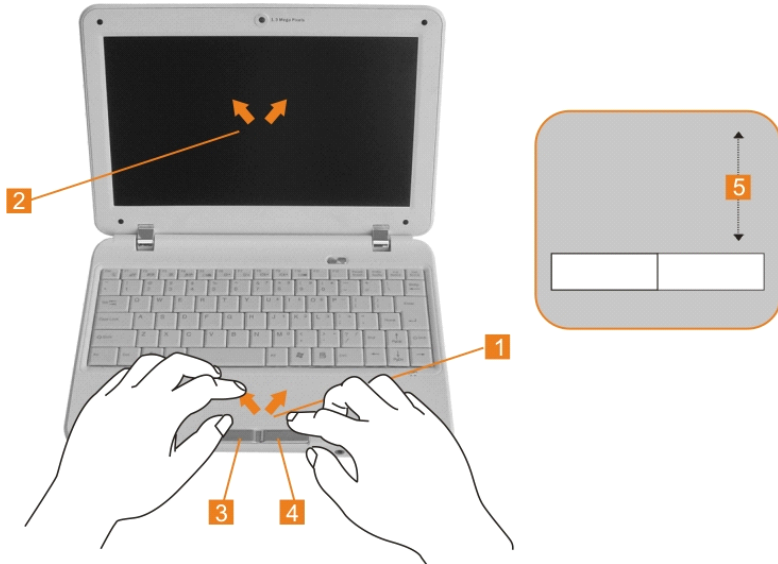
**Fn + Insert/NmLk:** Enable/disable the Numeric keypad.

**Fn + Delete/ScrLk:** Enable/disable Scroll Look.

### **Using the Touch Pad**

The touch pad consists of a pad **1** and two click buttons at the bottom of the keyboard. To move the cursor **2** on the screen, slide your fingertip over the pad in the direction in which you want the cursor to move. The functions of the left **3** and right **4** click buttons correspond to those of the left and right mouse buttons on a conventional mouse. Finger Sliding on area **5** lets you drag to scroll quickly up, down in the active window.

## CHAPTER 3. USING YOUR COMPUTER



### CAUTION:

#### Guidelines on using the touch pad

- Do not touch the touch pad with a sharp or pointed object as doing so may damage the touch pad.
- Do not remove the cover sheet of the touch pad as doing so may damage the touch pad.
- Do not use the touch pad with two fingers, wearing gloves, or wet hand as it may not function correctly. Using the touch pad with a dirty or oily finger may damage the touch pad.
- Do not exert too much pressure on the touch pad as doing so may result result in injuries to your finger or wrist.

## **CHAPTER 3. USING YOUR COMPUTER**

### **Using Memory Cards**

Your computer comes with one Multi-media Reader slot used to insert a memory card, such as an SD Card, a Multi-Media Card, a Memory Stick or a Memory Stick Pro.



#### **Inserting a memory card**

Gently slide the memory card with the arrow facing upward and pointing toward the Multi-media reader slot. Slide until it clicks into place.

#### **Removing a memory card**

Gently pull the memory card out of the Multi-media reader slot.

#### **Using the Web Camera**

With the built-in web camera, you can take photos or movies

## CHAPTER 3. USING YOUR COMPUTER

and use with various applications, such as MSN or Yahoo! Messenger, and so on.



### NOTE:

If you use Windows Vista, you need to install a separate third party dedicated application, because Vista does not include a program for taking pictures or movies with the integrated camera.

### Using the Internet

Your computer comes with LAN port for Ethernet connection or local area network (LAN), and wireless LAN for wireless connection.

### Using LAN Port

The LAN port supports a standard RJ-45 connector, and allows you to connect the computer to an Ethernet connection and local area network (LAN).



## CHAPTER 3. USING YOUR COMPUTER



### CAUTION:

As the voltage of a telephone connection is higher than that of a network, do not attempt to connect a telephone cable to the LAN port or else a short circuit of the computer might occur.

### Using wireless LAN

An isotropic antenna system is built into the display for optimal reception, enabling wireless communication wherever you are.

To enable wireless communications, do the following;

- ① Press Fn + F1 to enable wireless LAN
- ② The computer automatic search and connect the suitably network.

### Installing Device Drivers

A compatible device driver is a requirement to ensure correct operation and performance of each component in your computer.



### NOTE:

Most installations require a reboot to update the driver, otherwise the system's stability and audio or video effect may be compromised, or you even have to reinstall the operating system.

## CHAPTER 4. USING EXTERNAL DEVICES

### Chapter 4. Using External Devices

Your computer has many built-in features and connection capabilities.



#### **CAUTION:**

Do not connect or disconnect any external device cables other than USB cables while the computer power is on; otherwise, you might damage your computer. To avoid possible damage to attached devices, wait at least five seconds after computer is shut down to disconnect external devices.

### Connecting a Universal Serial Bus (USB) Device

Your computer comes with three Universal Serial Bus Ports compatible with USB 2.0 or USB 1.1 devices such as a keyboard, mouse, camera, hard disk drive, printer, and scanner. USB allows devices to be connected and disconnected without rebooting the computer (hot swapping), and allows specific classes of hardware to be used without requiring individual device drivers to be installed.



#### **CAUTION:**

When using high power consumption USB device such as USB ODD, use an external device power adapter. Otherwise, it will cause the

device unable to be recognized and used, or system shut down.

## **CHAPTER 4.USING EXTERNAL DEVICES**

### **Connecting an external display**

You can connect a VGA monitor by using a VGA port. To connect a VGA monitor, plug the display cable to VGA port on your computer. To shift to other connected display devices, press **Fn + F5**.



### **Connecting a headphone and audio device**

Your computer comes with one headphone jack used for connecting headphones, speakers, and audio devices.



### **Connecting an external microphone**

Your computer comes with one external microphone jack used for connecting external microphone.



## CHAPTER 5. TROUBLESHOOTING

### Chapter 5. Troubleshooting

This section lists frequently asked questions and tells where you can find detailed answers.

#### Display Problems

**When I turn on the computer, nothing appears on the screen and the computer does not beep while starting up.**



#### NOTE:

If you are not sure whether you heard any beeps, turn off the computer, then turn it on again, and listen again.

■ If a user password is set, enter the correct password and press **Enter**.

■ If the user password prompt does not appear, the brightness level might be set to minimum brightness. Adjust the brightness level by pressing **Fn +F7**.

■ If the screen still remains blank, make sure that:

- The battery is installed correctly.
- The AC adapter is connected to the computer and the power cord is plugged into a working electrical outlet.
- The computer power is on. (Press the **power** button again for confirmation.)
- The memory is installed correctly.

■ If these items are properly set, and the screen remains blank, have the computer serviced.

**My screen goes blank while the computer is on.**

Your screen saver or power management may be enabled. Do

## **CHAPTER 5.TROUBLESHOOTING**

One of the following to exit from the screen save or to resume from sleep or hibernation mode:

- Touch the touch pad.
- Press any key.
- Press the **power** button.

### **Keyboard Problems**

#### **A number appears when you enter a letter.**

The numeric lock function is on. To disable it, press **Fn + Insert**.

#### **All or some of the keys on the external numeric keypad do not work.**

Make sure that the external numeric keypad is correctly connected to the computer.

### **Sleep or Hibernation Problems**

#### **The computer enters sleep mode unexpectedly.**

If the processor overheats, the computer automatically enters sleep mode to allow the computer to cool and to protect the processor and other internal components. Check the settings for sleep mode.

#### **The computer enters sleep mode (the sleep indicator turns on) immediately after Power-on self-test (POST).**

#### **Make sure that:**

- The battery is charged.
- The operating temperature is within the acceptable range.

See **“Appendix A. Specifications”**

If the battery is charged and the temperature is within range,

## CHAPTER 5. TROUBLESHOOTING

have the computer serviced.

### **The critical low-battery error message appears, and the computer immediately turns off.**

The battery power is getting low. Connect the AC adapter to the computer, or replace the battery with a fully charged one.

### **The computer does not return from sleep mode, or the sleep indicator stays on and the computer does not work.**

■ If the computer does not return from sleep mode, it may have entered hibernation mode automatically because the battery is depleted. Check the sleep indicator.

■ If the sleep indicator is on, your computer is in sleep mode. Connect the AC adapter to the computer; then press any key or the **power** button.

■ If the sleep indicator is off, your computer is in sleep/hibernation mode or power-off state. Connect the AC adapter to the computer; then press the **power** button to resume operation.

■ If the system still does not return from sleep mode, your system has stopped responding, and you cannot turn off the computer; reset the computer. Unsaved data may be lost. To reset the computer, press and hold the Power button for 4 seconds or more. If the computer is still not reset, remove the AC adapter and the battery.

## **Computer Screen Problems**

### **The screen is blank.**

Do the following:

## CHAPTER 5.TROUBLESHOOTING

- If you are using the AC adapter, or using the battery, and the battery status indicator is on (is blue), press **Fn +F7** to make the screen brighter.
- If the Power indicator is in blinking blue, press any key or the Power button to resume from the sleep mode.
- If you still have the problem, do the Solution in the following problem” The screen is unreadable or distorted.”

### **The screen is unreadable or distorted.**

Make sure that:

- The display device driver is installed correctly.
- The screen resolution and color quality are correctly set.
- The monitor type is correct.

To check these settings, do as follows:

- 1.Right-click on the desktop and select **Personalize** from the popup menu.
- 2.Click **Display settings** and check whether the screen resolution and color quality are correctly set.
- 3.Chick the **Advanced settings** button.
- 4.Chick the **Adapter** tab.
- 5.Make sure that the correct device driver name is shown in the adapter information window.



### **NOTE:**

The device driver name depends on the video chip that has been installed on your computer.

- 6.Chick the **Properties** button. If you are prompted for an

## **CHAPTER 5.TROUBLESHOOTING**

administrator password or confirmation, enter the password or provide confirmation. Check the “Device status” box and make sure the device is working properly. If not, click the **Troubleshoot** button.

7. Click the **Monitor** tab.

8. Make sure the information is correct.

9. Click the **properties** button or the **Troubleshoot** button.

### **Incorrect characters appear on the screen.**

Did you install the operating system or application program correctly? If they are installed and configured correctly, have the computer serviced.

### **Missing, discolored, or bright dots appear on the screen every time you turn on your computer.**

This is an intrinsic characteristic of the TFT technology, Your computer’s display contains multiple thin-film transistors (TFTs).

A small number of missing, discolored, or bright dots on the screen might exist all the time.

### **Sound Problems**

#### **No sound can be heard from the speaker even when the volume is turned up.**

Make sure that:

- The Mute function is off.
- The headphone jack is not used.
- Speakers are selected as a playback device.

## **CHAPTER 5.TROUBLESHOOTING**

### **Battery Problems**

The battery cannot be fully charged by the power-off method in the standard charge time for your computer.

For details, See “Checking Battery Status” in Chapter 3.

Your computer shuts down before the battery status indicator shows empty.

-or-

Your computer operates after the battery status indicator shows empty.

Discharge and recharge the battery.

The operating time for a fully charged battery is short.

For details, See “Handling the Battery” in Chapter 3.

The computer does not operate with a fully charged battery.

The surge protector in the battery might be active. Turn off the computer for one minute to reset the protector; then turn on the computer again.

The battery does not charge.

For details, See “Handling the Battery” in Chapter 3.

### **A Hard disk Drive Problem**

#### **The hair disk drive does not work.**

In the Boot menu in AMI Setup Utility, make sure that the hard disk drive is included in the Boot Sequence correctly.

### **Other Problems**

#### **Your computer does not respond.**

## CHAPTER 5. TROUBLESHOOTING

■ To turn off your computer, press and hold the **power** button for 4 seconds or more. If the computer still does not respond, remove the AC adapter and the battery.

■ Your computer might lock when it enters sleep mode during a communication operation .Disable the sleep when you are working on the network.

### **The computer does not start from a device you want.**

See the Boot menu of the AMI Setup Utility .Make sure that the startup sequence in the AMI Setup Utility is set so that the computer starts from the device you want.

Also make sure that the device from which the computer starts is enabled. In the Boot menu in the AMI Setup Utility, make sure that the device is included in the “Boot Device Priority” list.

## **APPENDIX A. SPECIFICATIONS**

### **Appendix A. Specifications**

This section provides basic information that you may need when setting up, updating drivers for, and upgrading your computer.

#### **Specifications**

##### **Processor**

Intel Atom processor



#### **CAUTION:**

The CPU cannot be replaced or upgraded by the user. The computer is equipped with a different CPU depending on the model type.

##### **Memory**

Memory Type; DDR2 SDRAM SO-DIMM(512mb,1024mb and 2048mb)

##### **Storage devices**

2.5-inch hard disk drive (The capacity of the hard disk drive is different depending on the model type.)

SD/Mini SD/MMC/RSDMMC/MS/MS pro/MS Duo Memory Card slot

##### **External I/O Interfaces**

External monitor connector

Microphone jack

## **APPENDIX A.SPECIFICATIONS**

Speaker/Headphone jack  
3 Universal Serial Bus (USB) connectors  
RJ45 Ethernet connector

### **LAN**

Integrated 10/100 BASE-T Ethernet local area network (LAN)  
Network interface card (NIC) with RJ-45 jack

### **AC Adaptor (Free Voltage)**

Input: AC 100~240V, 50~60Hz  
Output: DC 16~20V



### **CAUTION:**

Use the correct adaptor for your computer.

### **Operating Environment**

Operating 10 ~ 35°C (50 ~ 95°F), 20 ~ 80% relative humidity  
Non-operating -10 ~ 60°C (14 ~140°F), 10 ~80% relative humidity

## **APPENDIX B. NOTICES**

### **Appendix B. Notices**

#### **General Notices**

#### **European Union CE Marking and Compliance Notices**

Products intended for sale within the European Union are marked with the Conformité Européene (CE) Marking, which indicates compliance with the applicable Directives and European standards and amendments identified.

#### **Shielded Cables Notice**

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

#### **Peripheral Devices Notice**

Only peripherals (input/output devices, terminals, printers, etc) certified to comply with Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

#### **Optical Disk Drive Notice**

The optical disk drive is Class 1 Laser Product.

#### **Wireless Related Information**

#### **Wireless Interoperability**

Wireless LAN PCI Express Mini Card is designed to be

## **APPENDIX B. NOTICES**

Interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS), Complementary Code Keying (CCK), and/or Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to.

■ The IEEE 802.11a/b/g/n Standard on Wireless LANs, as defined and approved by the Institute of Electrical and Electronics Engineers

■ The wireless Fidelity (WIFI) certification as defined by the WI-FI Alliance.

## **Usage Environment and Your Health**

Wireless LAN PCL Express Mini Card emits radio frequency electromagnetic energy like other radio devices. However, the level of energy emitted is far much less than the electromagnetic energy emitted by wireless like for example mobile phones.

Due to the fact that Wireless LAN PCI Express Mini Card operates within the guidelines found in radio frequency safety standards and recommendations, We believes the integrated wireless cards are safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situation or environment, the use of Wireless LAN PCI Express

Mini Card may be restricted by proprietor of the building or

## **APPENDIX B. NOTICES**

responsible representatives of the organization. These situations may of example include;

■ Using the integrated wireless cards on board of airplanes, or in hospitals

In any other environment where the risk of interference to other devices

■ or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization (e.g., airport or hospital), you are encouraged to ask for authorization to use Wireless LAN PCI Express Mini card prior to turning on the computer.

### **Electronic Emissions Notices**

#### **European Union Compliance Statement Class B Compliance**

European Union – Compliance to the Electromagnetic Compatibility Directive

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. We cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers.

## **APPENDIX B.NOTICES**

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Properly shielded and grounded cables and connectors must be used in order to reduce the potential for causing interference to radio and TV communications and to other electrical or electronic equipment.

### **FCC Rules and Regulations-Part 15**

This device uses, generates and radiates radio frequency energy. The radio frequency energy produced by this device is well below the maximum exposure allowed by the Federal Communications Commission (FCC).

■ This device complies with the limits for a Class B digital device pursuant to Part 15 subpart C of the FCC Rules and Regulations. Operation is subject to the following two conditions;

■ This device may not cause harmful interference.

■ This device must accept any interference received, including interference that may cause undesired operation,


The FCC limits are designed to provide reasonable protection against harmful interference when the equipment is installed and

## APPENDIX B.NOTICES

used in accordance with the instruction manual and operated in a commercial environment. However, there is no guarantee that interference will not occur in a particular commercial installation, or if operated in a residential area.

If harmful interference with radio or television reception occurs when the device is turned on, the user must correct the situation at the user's own expense. The user is encouraged to try one or more of the following corrective 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 on which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

 **CAUTION:** The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency, Any changes or modification to said product not expressly approved by Intel could void the user's authority to operate the device.

Declaration of Conformity (PCI  
Express Minicard Adapter)

C E 0336 !

## EU ROHS Compatible Statements

Parts conform to the requirements of the European Union's Restriction on Use of Hazardous Substances in Electrical and Electronic Equipment (ROHS) directive 2002/95/EC for the six substances and their respective maximum limits shown in Table 1 below, and such products are designed to meet the higher temperature reflow required for lead-free processes.

Table 1	
Restricted Substance	Maximum Limit(PPM) <sup>1</sup>
Cadmium(CD)	100
Lead(PB)	1000
Mercury(Hg)	1000
Hexavalent Chromium (CR6+)	1000
Poly Brominated Biphenyls (PBB)	1000
Poly Brominated Diphenyl Ethers (PBDE)	1000

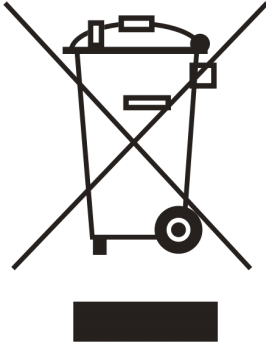
### Notes:

1. Maximum limit does not apply to applications covered by ROHS exemptions

### APPENDLX B. NOTLCES

2. Includes requirement that lead not to exceed 0.1% by weight in homogenous materials.

## Waste Disposal Statements



Conforming to the Directive 2002/96/EC  
This appliance must not be disposed of with other household waste. This appliance must be disposed by an authorized waste treatment or collection point for the recycling of waste electrical and electronic equipment. Incorrect disposal of this type of waste product can damage the environment and cause problems to health due to hazardous substances produced by electrical and electronic equipments.