Intel-powered Classmate PC - Convertible
Preface

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Specification

CPU
➢ Intel® Celeron® Processor 847 (2M Cache, 1.10 GHz)

Memory
➢ Single-channel DDR3 1066/1333MHz So-DIMM DRAM module
➢ Supports 1GB/2GB/4GB of system RAM

Core Logic
➢ Intel® NM70 Express Chipset

Audio Codec
➢ Realtek ALC269Q-VB6 Azalia integrated audio
  Analog 2.1 D3 mode support

Card reader
➢ Support 2 in 1 SDHC/ MMC Memory Card,
➢ USB 2.0 interface
➢ Support boot from CR

LAN Controller
➢ Supports 10 and 100 Mb/sec. Full and half
  Duplex operation

Wireless LAN
- Half Mini-card form factor
- Wi-Fi 802.11 B/G/N 1x1 + Bluetooth 4.0
- Wi-Fi 802.11 B/G/N 1x1 (optional)
- Wi-Fi 802.11 A/B/G/N 2x2 (optional)
- PCI-E interface

**Keyboard**
- Integrated QWERTY keyboard W/ Hot key
- Spill-resistance keyboard
- Multi-languages Supported

**Pointing Device**
- PS/2 Touch Pad with Left and Right Click Button and scrolling Bar
- Support two figures gesture function (zoom in/out, scrolling, rotation)

**Storage**
- SSD
  - SATA 32G/ 128G SSD MLC
- 2.5” HDD (with G-sensor for HDD protection)
  - Single-HDD for 2.5” 9.5mm SATA support
  - Support SATA 2.0
  - 5400rpm support
  - 250GB/320GB/500GB

**LCD**
- 10.1” with 1366X768(HD) (Anti-Glare)

**Touch Screen**
- Capacitive type
- 5 point touch

**Battery Pack**

- 3 cell battery pack
  - 10.8V/2600mAh, 3.6V/2600mAh
    - GALLOPWIRE, EC10-3S2600-G1L5
    - SIMPLO, EC10-3S2600-S1L5
  - The battery will be 70 percent charged in about 75mins and fully charged in about 165mins

- 6 cell Li-ion battery pack
  - 10.8V/4400mAh, 3.6V/2200mAh
    - GALLOPWIRE, EC10-3S4400-G1L3
    - SIMPLO, EC10-3S4400-S1L3
    - SIMPLO, EC10-3S4400-S1B3
  - The battery will be 70 percent charged in about 125 mins and fully charged in about 240mins

- Extended 6 cell Li-ion battery pack
  - 10.8V/5200mAh, 3.6V/2600mAh
    - GALLOPWIRE, EC10-3S5200-G1L5
    - SIMPLO, EC10-3S5200-S1L5
  - The battery will be 70 percent charged in about 150 mins and fully charged in about 300mins

**AC-Adapter**

- Automatics Voltage adjustment between 100 and 240VAC 50/60Hz, 40Watts
Manufacturer: Shenzhen Huntkey Electric Co., Ltd.
Model: HKAO3619021-8C (AC 2 Pin)

Manufacturer: DELTA ELECTRONICS, INC.
Model: ADP-40PH AB (AC 2 Pin)

**BIOS**
- Support PnP & ACPI 2.0
- Support external USB flash memory card boot up.

**Physical Outline**
- Dimension: 269 (W) x 210.4 (D) x 24.6~34.2 (H) mm (W/O Rubber Foot)
- Weight:
  - 10.1" W LCD /HDD/ CAM/ 6cell battery pack: 1.8 Kg

**EMC**
- CE, FCC, CCC

**RF**
- FCC&SAR / R&TTE

**Safety**
- UL / CB

**Validation**
- Energy Star Compliance 5.2 (Design ready)
- Vibration test: MIL-STD-810F/EN-60068
- Drop test: MIL-STD-810F /GB/T4857
- Acoustic test: ISO3745/ISO7779
Attention: Teachers, Parents and Adult Supervisors

This product is an educational tool designed for school children, ages 6 and up. There must be supervision by an adult on school children under 10 when using this Intel-powered classmate PC - Convertible. It is a must to have a thorough explanation to students on safe and proper handling of the Intel-powered classmate PC - Convertible, power supply, battery pack, and power cord.

Be sure to keep the power cord away from younger children.

Please ensure that students understand the following:

- Emphasize to students that this device is an educational tool and not a toy. The computer, power supply, battery pack or power cord should not be dropped, crushed, stepped on or otherwise abused.
- Ensure students understand the safe and proper handling of power cord and power supply. Misuse could result in serious injury.
- The teacher, parent or adult supervisor should periodically inspect the computer, power supply and power cord for damage and replace it, if necessary.
- Students should report any damage or loose parts to their teacher, parent or adult supervisor, immediately.
- Do not leave the PC plugged in or “on” when enclosed in a non-vented container, such as a school backpack, as overheating may occur.
- It is recommended that students should take a 5 minute break every 30 minutes of use.
Safety Precautions

The following are lists of precautionary measure the students must understand before using this computer inside the classroom or home environment:

1. Do not place near the fire or other sources of heat.
2. Do not expose to magnetic fields.
3. Do not expose to direct sunlight.
4. Do not expose to rain or moisture.
5. Do not place heavy objects to add heavy pressure on the computer.
6. Do not drop the computer.

⚠️ CAUTION... The computer should be operated normally under an environmental temp of 5°C ~35°C, high humidity (70% - 90%) and dusty. The computer and power adapter shall withstand
storage from -20 to +60°C, humidity up to 95%, non-condensing.
Caring for your Computer

⚠️ CAUTION... To reduce the risk of electric shock when connecting external peripherals such as printer, communication network, antenna, LAN, etc.,

- Disconnect power from the computer by unplugging the power cord from the AC outlet (not by unplugging the power cord from the computer).
- Be sure not to clean the computer when it is plugged into a wall socket.
- When cleaning the unit, clean only with a damp soft cloth. Do not pour liquid onto the unit.
- Do not clean while the computer is “on” or plugged into a wall socket.
- Caution students to avoid using this device under wet conditions and also to protect the unit when carrying under this condition.
- Be sure the touch pad does not come into contact with dirt, liquids, or grease.
- Power connection must be removed before installing signal cables, whenever it is functionally and legally allowed.
- Power cords must be reconnected only after all signal interconnections have been completed.
Agency Regulatory Notices

Federal Communications Commission Notice

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this
equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.
**WARNING...**  
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Modifications**

The FCC requires the user to be notified that any changes or modifications made to this device that is not expressly approved by the Manufacture may void the user's authority to operate the equipment.

**Connections to Peripheral Devices**

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

**SAR Exposure**

Intel-powered classmate PC - Convertible has been tested for and found to be in compliance with FCC RF Exposure Limit. During extended periods of use the integrated antenna located at the top left corner of the display screen should be positioned at least 20cm from users or nearby persons.

**Declaration of Conformity**

This device complies with Part 15 the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired
operation.

European Notice


Compliance with these directives implies conformity to the following European Norms:

- EN55022: 2010, CLASS B
- EN61000-3-2: 2006+A2:2009
- EN61000-3-3: 2008
- EN55024: 2010
- IEC61000-4-2: 2008
- IEC61000-4-3: 2010
- IEC61000-4-4: 2012
- IEC61000-4-5: 2005
- IEC61000-4-6: 2008
- IEC61000-4-8: 2009
- IEC61000-4-11: 2004
- EN 300 328, EN 301 489-1, EN 301 489-17, EN 301 893 (ETSI 300 328, ETSI 301 489, ETSI 301 893) Electro-magnetic Compatibility and Radio Spectrum Matter.
- EN60950 (IEC60950) I.T.E. Product Safety

Canadian Notice

This digital apparatus does not exceed the Class B
limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Attachment Limitations Statement

This equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s).

This is confirmed by marking the equipment with the Industry Canada certification number. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company.

The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated
by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

⚠️ CAUTION... Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or an electrician, as appropriate.

Power Cord Requirement

The power cord supplied with the AC adapter should match the plug and voltage requirements for your local area. Regulatory approval for the AC adapter has been obtained using the power cord for the local area.

However, if you travel to a different area and need to connect to a different outlet or voltage, you should use one of the power cords listed below. To purchase a power cord (including one for a country not listed below) or a replacement AC adapter, contact your local dealer.
U.S. and Canada

- The cord set must be UL/ETL-Listed and CSA-Certified or UL/C-ETL Listed.
- The minimum specifications for the flexible cord are (1) No. 18 AWG, (2) Type SPT-2, and (3) 2-conductor.
- The cord set must have a rated current capacity of at least 7A.
- The attachment plug must be NEMA 1-15P (7A, 125V) configuration.

Other Countries

- The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country. Acceptable agencies are:
  - CCC (China)
- The flexible cord must be of a HAR (harmonized) type HO5VV-F 3-conductor cord with a minimum conductor size of 0.03 square inches.
- The minimum specification for the flexible cord for Class II product are: (1) 2X0.75 mm² conductors, (2) 2-conductor cord.
- The cord set must have a current capacity of at least 10 A and a nominal voltage rating of 125 / 250 VAC.

**NOTE....** This model is designed to use with the following AC Adapter model only.
- Manufacturer: Shenzhen Huntkey Electric Co., Ltd.
- Model: HKA03619021-8C (AC 2 Pin)
- Manufacturer: DELTA ELECTRONICS, INC.
- Model: ADP-40PH AB (AC 2 Pin)
Battery Pack Safety

- The battery pack is intended to use only with this notebook.
- Only qualified service technicians should replace the battery pack.
- Do not disassemble the pack.
- Do not dispose of the battery pack in fire or water.
- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal object to touch the battery contacts.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not charge the battery pack if the ambient temperature exceeds 45℃ (113°F).
- To obtain a replacement battery, contact your local dealer.
- Do not expose the battery pack to high storage temperatures (above 60℃, 140°F).
- Do not expose the battery pack to low storage temperatures (below 0℃, 32°F).
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.
- Use only supplied AC Adapter for charging.
Danger of explosion if battery is incorrectly replaced. Only qualified service technicians should replace and discard the battery pack. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions or local laws.

**Lithium battery warning / Bridge battery warning**

This computer contains a lithium battery to power the clock and calendar circuitry.
Welcome!
Your Intel-powered classmate PC - Convertible features the latest advances in portable computing technology. These procedures are intended for new PC users like school kids to help them get started.

For a complete education solution designed for 1:1 eLearning and classrooms around the world. Please refer to the following website: www.intellearningseries.com.

Touring the Computer

Opening the LCD Panel
Never try to use this computer with the battery removed thus exposing the battery compartment which might cause hazardous accidents to kids if it is only powered by an AC adapter.

**WARNING....** The Intel-powered classmate PC - Convertible also features a rugged design that helps protect the computer from scratches and light falls. Please be careful when handling your computer and recommended not to let the computer fall from high places.

**WARNING....** To avoid damage to the display panel:
1. Try not to slam the display upon closing it.
2. Try not to place any object on top when it is closed or open.
3. Be sure the system is turned off or in suspend mode
before you close the display panel.

With the LCD screen open, you will see several features important for operating your Intel-powered classmate PC - Convertible.

Front View

1. Built-in Rotating Camera
   Use the Built-in rotating camera for video conference, photo and video shooting.

Built-in Rotating Camera
The built-in rotating camera can rotate from $-35 \sim +200$ degrees. You can rotate the built-in rotating camera back and forth using on both sides of the display panel.

**NOTE**... The built-in rotating camera must be returned to its original position for the display panel to close properly.

2. **LCD Display**
   The panel is where the system content is displayed.

3. **Windows Key Button**
   Press once to quickly switch between Windows 8 Start Screen and Desktop mode when the computer is turned to tablet mode.

4. **LED Status Indicator**
   The LED Status Indicator displays the operating status of your Intel-powered classmate PC.
Convertible. When a certain function is enabled, the LED will light up. The following section describes each indicator.
System and Power Status Indicators

<table>
<thead>
<tr>
<th>LED Graphic Symbol</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Blue light indicator" /></td>
<td>Blue light indicates the numeric keypad is activated.</td>
</tr>
<tr>
<td><img src="image2.png" alt="Blue light indicator" /></td>
<td>Blue light indicates the cap-lock is activated.</td>
</tr>
<tr>
<td><img src="image3.png" alt="Blue light indicator" /></td>
<td>Blue light indicates the is reading/writing data.</td>
</tr>
<tr>
<td><img src="image4.png" alt="Blue light indicator" /></td>
<td>Blue light indicates the WLAN module is active.</td>
</tr>
</tbody>
</table>

The battery LED reflects according to the following status:
- Blue light indicates the battery is fully charged and the AC Adapter is plugged in.
- Orange light indicates the battery power is low.

5. **Built-in Microphone**

The microphone is used when you are having an
audio/video conference with the other party.

6. Power LED status indicator
   Blue light indicates the system is ON.

7. Power/Suspend Button
   ● Press momentarily to turn on the system.
   ● Press the power/suspend button again to return from the suspend mode.

     **NOTE**.... Press this button once to enable and pop up the webcam application in full-screen mode. Under the webcam application, press this button once to take a picture.

8. TouchPad
   The touch pad is a built-in pointing device with functions similar to a mouse.

9. Touchpad Buttons
   Works like the two buttons on an ordinary mouse.

*Left Views*
1. **External Monitor Port**
   Use this port to connect to an external monitor.

2. **HDMI Port**
   Compact audio/video interface for transmitting uncompressed digital data.

3. **USB 2.0 Port**
   This port conforms to the latest USB2.0 plug-and-play standards.

4. **Ventilation Opening**
   The ventilation opening allows the computer to cool off and prevent overheating. Do not block this opening when the computer is turned on.

5. **2 in 1 Card Reader**
   Supports SDHC / MMC memory card.
6. **Volume Up/Down Button**

   Press the top of the volume button to increase the volume and the bottom of the button to decrease the volume.

7. **Screen Rotation Lock button**

   Prevent the display from switching between portrait and landscape mode.

**Right View**

1. **Stylus Pen Slot**

   The stylus pen for the touch screen is stored here.
2. Stereo Headphone Jack
   Use the headphone jack to connect an external
   headphone set.

3. Microphone Jack
   Use the microphone jack to connect an external
   microphone.

4. USB 2.0 Ports
   This port conforms to the latest USB2.0 plug-and-
   play standards.

5. Ethernet / LAN Port
   \[\text{NOTE...} \quad \text{When using a LAN, please use an EMI Shielding Cable to minimize an interference when transmitting.}\]

6. Power Jack (DC-in)
   The DC-out jack of the AC Adapter connects here
   and power on the computer.

\[\text{Rear View}\]
1. **Handle**
   Use the handle to carry the computer.

2. **Name Field**
   Place your name tag here.

3. **LCD Display Rotating Bar**
   This bar is used to rotate the LCD display.

4. **Kensington Security Slot**
   Attach a Kensington lock to this slot to secure your computer to a fixed location.

*Bottom View*
1. **Battery Bay**
   This compartment contains the battery pack for your system.

2. **Battery Release Latch/Lock Latch**
   Slide this latch to release or lock the battery from the battery bay.

3. **Built-in Stereo Speakers**
   The built-in speaker output the sound in stereo.

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**Spill-Resistance Precautionary Measures on Keyboard, Power Button, Touch Screen and Touch pad Buttons**
The Intel-powered classmate PC - Convertible features a spill-resistance function on keyboard, power button, touch screen and touch pad buttons to ensure greater protection against spills in the classroom or anywhere. These are the ways to avoid damage to your system:

- Save all important documents within 3-minutes.
- Power off the system in normal procedure (Click “Start”, select “Shut down”), unplug the AC adapter then remove the battery.
- Tilt the system to the leftmost or rightmost position and gently wipe the liquid on the keyboard (Remember not to press the keyboard).
- Power On the system after letting it dry up for four hours.

These procedures only apply for spill-resistances keyboard, power button, touch screen and touchpad buttons.

*WARNING....* Please take note that it can
cause a severe damage to the system if the user uses the abnormal procedure and forcibly shut down the system.

**Getting Started**

**Connecting to a Power Source**

**Connecting the AC Adapter**

A universal AC adapter is provided to supply your computer with power and also charge the computer’s battery pack. The adapter’s AC input voltage can range anywhere from 100 to 240 volts, covering the standard voltages available in almost every country. To connect the computer to an external power source:
WRONGING.... Do not use inferior extension cords as this may result in damage to your Intel-powered classmate PC - Convertible. Intel-powered classmate PC - Convertible comes with its own AC adapter. Do not use a different adapter to power the computer and other electrical devices.

Whenever possible, keep the AC adapter plugged into the Intel-powered classmate PC - Convertible and an electrical outlet to recharge the battery.

WARNING.... Never turn off or reset your Intel-powered classmate PC - Convertible while the hard disk is in use; doing so can result in loss or destruction of your data. Always wait at least 5 seconds after turning off your Intel-powered classmate PC - Convertible before turning it back on; turning the power on and off in rapid succession can damage
the Intel-powered classmate PC - Convertible

electrical circuitry.

Turning On Your Computer

Turn on your Intel-powered classmate PC - Convertible by pressing the power button. Hold the button down for a second or two and release. The Power-On Self Test (POST) runs automatically.

After the POST is completed, the computer reads the operating system from the hard disk drive into computer memory (this is commonly referred to as “booting” a computer). If your OS (Operating System such as Windows 8…. Etc.) is installed, it should start automatically.

To turn the Intel-powered classmate PC - Convertible off, save your work and close all open applications, click on “Start”, select “Shut down” or lightly press the power button.

Operating on Battery Power

Your computer comes with a rechargeable battery pack that lets you operate the computer without an external power source. When the battery pack is fully charged, you can operate the computer under the following conditions:

- The battery pack initially has a full charge.
- No peripheral devices are installed.
The Battery Pack

To Install the Battery Pack:

- Align the battery pack and insert into the battery bay.
- Slide the battery pack gently but firmly until it locks into place.
- Slide the battery lock into locked position.
To Remove the Battery Pack:

- Slide the battery lock switch left into unlocked position. The battery pack will pump up from the battery bay.
- Slide and hold the battery release latch then slide the battery pack up.
- Lift up the battery pack from the battery bay.
Lithium-Ion Battery

Your Intel-powered classmate PC - Convertible uses a Lithium-Ion battery pack that provides power when you don't have access to an AC outlet.

**NOTE....** You must charge the battery pack for at least six hours before using it for the first time. In the Standby Suspend mode, a fully charged battery loses its power in roughly 1/2 day or less. When not being used, the battery's power will deplete in one to two months. The battery pack in this system is replaceable by the end user.

Battery Low-Power Warning

1. Low Battery Warning

Low battery condition occurs when battery power is reduced to 10 percent.

2. Very Low Battery Warning

Very Low battery condition occurs at 5 percent power remaining.

The red battery status LED indicator blinks and the system beeps 3 times in 1.2sec (each beeping last 200ms and 200ms off interval before the next beep). When the Intel-powered classmate PC - Convertible warns you of its low battery condition, you will have about three to five minutes to save your current work.
WARNING.... Do not expose battery packs to temperatures below 0 degree Celsius (32 degree F) or above 60 degree C (140 degree F). This may adversely affect the battery pack.

Charging the Battery and Charging Time

To charge the battery, plug the AC adapter into the Intel-powered classmate PC - Convertible and an electrical outlet:

- Charging time for 3 cells (2600mAh) battery; the battery will be 70 percent charged in about 75mins and fully charged in about 165mins
- Charging time for 6 cells (4400mAh) battery pack; the battery will be 70 percent charged in about 125 mins and fully charged in about 240mins
- Charging time for 6 cells (5200mAh) battery pack; the battery will be 70 percent charged in about 150 mins and fully charged in about 300mins

NOTE.... If system runs at heavy loads or in a high temperature environment, the battery may not be fully charged. You need to continue to charge it with the AC adapter plugged in until the charging LED turns blue.

NOTE.... System will not charge battery
when temperature exceeds 45°C

Checking the Battery Level

You can check the remaining battery power in Operating System battery status indicator.

Prolonging the Battery’s Life and Usage Cycles

There are ways you can prolong the use of battery.

➢ Use the AC adapter wherever AC wall outlet is available. This will ensure uninterrupted computing.

➢ Store the battery pack at room temperature. Higher temperature tends to deplete the battery’s power faster.

➢ Make good use of the power management function. Save To Disk (Hibernate) saves the most energy by storing current system contents in a hard disk space reserved for this function.

➢ The life expectancy of the battery is approximately 300 recharges.

➢ See the notices section in the beginning of the user manual on how to care for the battery pack.

➢ Use Function+F7 key to decrease the brightness of the screen.
To achieve optimal battery performance, you may need to do a battery calibration at a 3-month interval. To do this:

- Fully charge the battery.
- Then discharge the battery by entering the BIOS setup screen. (Press F2 key as soon as you turn on the computer. And let it remain on the setup screen until the battery runs out.
- Fully charge the battery again.

**Using Power (Optional)**

Operating System Power Management provides basic power saving features. In the power configuration dialogue box, you may enter time-out values for display and hard disk drive.

Operating System power manager saves power by turning off hard drive after 1 minute of inactivity, for example.

**NOTE...** Also consult Operating System user guide for more information on how to use Operating System power management functions. Actual dialogue box shown above may appear slightly different.

**Suspend Mode**

**Standby Suspend**

The system automatically enters this mode after a period of inactivity, which is set in the Power Scheme
dialog box. In Standby mode, hardware devices, such as display panel and hard disk, are turned off to conserve energy.

**Hibernate Suspend**

In this mode, all system data are saved in the hard disk before powering down. When this mode is activated, all system state and contents are saved to the hard disk drive after a period of inactivity defined by the user.

No power or very little power is drawn from the battery module under this mode.

However, depending on how much RAM that has been installed on your computer, the amount of time the system requires to restore all its previous contents can range from five to 20 seconds. Power

**Power Button Action**

Intel-powered classmate PC - Convertible power button can be set to turn off the system or activate the suspend mode under an operating system environment.
Using Intel powered classmate PC  
- Convertible

Adjusting the LCD Screen Display

The LCD screen display can be adjusted by the following key combinations:

- **Fn+ F6** key combination to change display mode:
  LCD-only,
  External Monitor-only, LCD/External Monitor simultaneously

- **Fn+ F7** key combination to decrease the brightness level of the screen and also disables the auto-brightness (Light Sensor) adjustment.

- **Fn+ F8** key combination to increase the brightness level of the screen and also disables the auto-brightness (Light Sensor) adjustment.

LCD Care

LCD screens are delicate devices that need careful handling. Please pay attention to the following precautions:

- When you are not using the computer, keep the LCD screen closed to protect it from dust.
- If you need to clean your LCD screen, use a soft tissue to gently wipe the LCD surface.
- Do not put your fingers or sharp objects directly
on the surface and never spray cleaner directly onto the display.

➢ Do not press on, or store any objects on the cover when it is closed. Doing so may cause the LCD to break.
Function Keys (Quick Keys)

- **WLAN/3G/BT on/off:**

- **Enters the Suspend Mode.**

- **Mute the system volume**

- **Decreases the speaker volume.**

- **Changes Display Mode:** LCD-only, External Monitor-only, LCD/External Monitor simultaneously

- **Decreases the brightness**
level of the screen.

- Increases the brightness level of the screen.

Fn + F8
The TouchPad

The touchpad is a rectangular electronic panel located just below your keyboard. You can use the static-sensitive panel of the touchpad and slide it to move the cursor. You can use the buttons below the touchpad as left and right mouse buttons.

Move the tip of your finger across the touch pad to move the cursor on the screen:

- Press the left button once for a left-click operation.
- Press the left button twice for double click operations.
- Press the right button once for right-click operation.
- To drag and drop, press and hold the left button.
and move your finger on the touch pad to the desired location.

**TouchPad Precautions**

The TouchPad is a pressure sensitive device. Please take note of the following precautions:

- Make sure the TouchPad does not come into contact with dirt, liquids or grease.
- Do not touch the TouchPad if your fingers are dirty.
- Do not rest heavy objects on the TouchPad or the TouchPad buttons.

You can use the TouchPad with Microsoft Windows as well as non-Windows applications.

**Resetting the System**

After installing a software application package, you may be prompted to restart the system to load the changed operating environment.

In Windows 8, to reset the system, press the **[Ctrl] + [Alt] + [Delete]** keys simultaneously to pop-up a full screen menu. The power icon in the bottom right corner allows access to the restart, sleep, and shut down power options. Select “shut down” to completely turn off your settings and return Windows to original setting. If the computer has stopped responding and Windows resetting procedures are ineffective, press and hold the power button for at least 5 seconds to turn off the computer.
Using the Touch Screen

This model display panel also works as a touch screen. You can use the stylus pen to control system operations or as a pen for writing or illustration applications. When using the computer for the first time, power on and follow the on screen instructions to active the touch screen.

**WARNING....** Never try to tap or write on the screen with excessive force; this may damage the LCD display.
Rotating the Display Panel

Your computer can be rotated up to 180 degrees, clockwise or counterclockwise. Fold it down with the display facing up to use it as writing pad. You can rotate the screen horizontally or vertically to suit your needs.

To rotate the display panel
**WARNING....**  Do not try to turn the display panel more than 180 degrees.

**NOTE....**  If you start to rotate the display panel in clockwise position. To return to its original position or vice versa, turn it in counterclockwise
position
To use the display panel as a writing pad

Make sure the display panel is rotated to 180 degrees. Hold the display panel upper corners and gently lower the display panel to close position.

Hard Disk Protection

The Hard-Disk Drive (HDD) Protection application protects the system’s HDD from damage caused by sudden harmful shocks.
It monitors system movements that exceed the defined shock threshold. Once a shock is detected, the application instructs the HDD to temporarily park its heads which protects against potential damage the drive.

**BIOS Setup and Security Feature**

The Setup Utility is a hardware configuration program built into your computer’s BIOS (Basic Input/Output System). It runs and maintains a variety of hardware functions. It is menu-driven software, which allows you to easily configure and change the settings.

The BIOS contains manufacturers default settings for the computer’s standard operations. However, there are occasions when you may be required to modify the default settings in the BIOS.

The BIOS allows you to set up passwords to limit access to users. This is an important feature because a great deal of vital information is carried within the computer nowadays. Unauthorized access can be prevented. Later in this chapter, you will learn how to use this security feature.

**Entering the BIOS Setup Screen**

First turn on the power. When the BIOS performs the POST (Power-On Self Test), press DEL key quickly to
activate the Setup Utility.

**NOTE...** You may need to press DEL key fairly quickly. Once the system begins to load operating system, you may have to retry by cycle-power on again.

**Leaving the BIOS Setup Screen**

When you have finished modifying the BIOS settings, exit the BIOS. It takes a few seconds to record changes in the CMOS.
## BIOS Action Keys

<table>
<thead>
<tr>
<th>Legend Key</th>
<th>Alternate Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td></td>
<td>Displays the General Help window. It can be enabled from anywhere in the BIOS.</td>
</tr>
<tr>
<td>Esc</td>
<td></td>
<td>Jumps to the Exit menu or returns to the Main menu from a submenu.</td>
</tr>
<tr>
<td>←</td>
<td></td>
<td>Selects the menu item to the left.</td>
</tr>
<tr>
<td>→</td>
<td></td>
<td>Selects the menu item to the right.</td>
</tr>
<tr>
<td>↑ Or ↓</td>
<td>Keypad arrow keys</td>
<td>Moves the cursor up and down between fields.</td>
</tr>
<tr>
<td>Tab</td>
<td>Enter</td>
<td>Moves the cursor to the next position available in the field.</td>
</tr>
<tr>
<td>Minus key</td>
<td>(-)</td>
<td>Scrolls backward through the values for the highlighted field.</td>
</tr>
<tr>
<td>Plus key</td>
<td>(+)</td>
<td>Scrolls forward through the values for the highlighted field.</td>
</tr>
<tr>
<td>Home</td>
<td>PgUp</td>
<td>Moves the cursor to the field at the top of the window.</td>
</tr>
<tr>
<td>End</td>
<td>PgDn</td>
<td>Moves the cursor to the field at the bottom of the window.</td>
</tr>
<tr>
<td>F7</td>
<td></td>
<td>Load Legacy OS defaults</td>
</tr>
<tr>
<td>F8</td>
<td></td>
<td>Load Windows 8 defaults</td>
</tr>
</tbody>
</table>
### Modifying the BIOS Settings

The BIOS setup main menu is subdivided into sub-menus. Each menu item is described in this section.

<table>
<thead>
<tr>
<th>Legend Key</th>
<th>Alternate Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>F9</td>
<td></td>
<td>Sets the parameters for the current menu to their default values.</td>
</tr>
<tr>
<td>F10</td>
<td></td>
<td>Save and Exit.</td>
</tr>
<tr>
<td>Enter</td>
<td></td>
<td>Will select a sub menu or show a range of optional for a field.</td>
</tr>
</tbody>
</table>
Main Setup

Under this menu, you may change time/date and view basic processor and system memory information.

Phoenix SecureCore Tiano Setup

<table>
<thead>
<tr>
<th>Main</th>
<th>Advanced</th>
<th>Security</th>
<th>Boot</th>
<th>Exit</th>
</tr>
</thead>
</table>

- **System Date:** [MM/DD/YYYY]
- **System Time:** [HH:MM:SS]
- **EC Version:** X.YY
- **Processor Type:** Intel® Celeron® CPU 807 @1.5GHz
- **Processor Speed:** 1.50GHz
- **Total Memory:** 4GB
- **Serial ATA Port:** ST320L000 3Gbps 1H
- **LUID:** 0F1039AE AC3D-8FC1-AB7A-24104F6C363A

**Load Legacy OS Defaults**
- **[Enter]**

**Secure Boot Option**
- **[Disabled]**
- **[Enabled]**

**CSM Support**
- **[Not Supported]**
- **[Enabled]**

**UEFI Boot**
- **[Enabled]**

**Item Specific Help**
- View or set system date.

**NOTE....**
Due to various configurations on this model, your system may show different information:

- **System Date:** Type in the current date, in MM/DD/YY format.
- **System Time:** Type in the current time, in HH:MM:SS format.
### Advanced Setup

#### Phoenix SecureCore Tiano Setup

<table>
<thead>
<tr>
<th>Main</th>
<th>Advanced</th>
<th>Security</th>
<th>Boot</th>
<th>Exit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Language</td>
<td>[English]</td>
<td>C-States</td>
<td>[Enabled]</td>
<td>Intel® Rapid Start Technology</td>
</tr>
</tbody>
</table>

#### Security

#### Phoenix SecureCore Tiano Setup

<table>
<thead>
<tr>
<th>Main</th>
<th>Advanced</th>
<th>Security</th>
<th>Boot</th>
<th>Exit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure Boot Configuration</td>
<td>Supervisor Password is:</td>
<td>Cleared</td>
<td>Supervisor Hint String</td>
<td>[Enter]</td>
</tr>
<tr>
<td>Set Supervisor Password</td>
<td>[ ]</td>
<td>Set User Password</td>
<td>[Enter]</td>
<td></td>
</tr>
<tr>
<td>User Hint String</td>
<td>[ ]</td>
<td>Authenticate User on Boot</td>
<td>[Disabled]</td>
<td></td>
</tr>
<tr>
<td>HDD Password Select</td>
<td></td>
<td>HDD Security Status</td>
<td>[User Only]</td>
<td></td>
</tr>
<tr>
<td>HDD00 Password State</td>
<td></td>
<td>Set HDD00 User Password</td>
<td>Cleared</td>
<td></td>
</tr>
</tbody>
</table>

### Notes
- Secure Boot Configuration Settings
- Not all items are translated timely, as new items may be added anytime.

F1 Help  F2 Select Item  F3 Change Values  F7 Legacy OS  F8 Windows 8 Defaults  F9 Setup Defaults  F10 Save and Exit
### Boot Setup

#### Phoenix SecureCore Tiano Setup

<table>
<thead>
<tr>
<th>Main</th>
<th>Advanced</th>
<th>Security</th>
<th>Boot</th>
<th>Exit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure Boot Configuration</td>
<td>Item Specific Help</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UEFI Secure Boot Protected Signatures Customized Signatures Certificates</td>
<td>Disabled Enabled (User Mode) Disabled (Standard Mode) Win8 Certificates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secure Boot Option Reset to Default Change to Customization</td>
<td>[Disabled] [Enter] [Enter]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enable or disable secure boot function.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Boot Priority Order:

1. Windows Boot Manager
2. USB FDD:
3. USB CD:
4. USB HDD:
5. ATA HDD: ST320LM000 HM321HI
6. Internal Shell
7. PCI LAN

Item Specific Help

Keys used to view or configure devices: ↑ and ↓ arrows select a device. ‘+’ and ‘-’ move the device up or down. ‘Shift + 1’ enables or disables a device. ‘Del’ deletes an unprotected device.
Exit Setup

Exit Saving Changes: After you have completed the BIOS settings, select this item to save all settings, exit BIOS Setup utility, and reboot. New system settings will take effect on next power-up. F10 key can be used for this operation.

Exit Discarding Changes: Discards changes done so far to any of the setup questions and exit.

Load Setup Defaults: Load Setup Default value for all the setup questions. F9 key can be used for this operation.

Discard Changes: Discards changes done so far to any of the setup questions.

Save Changes: Save the changes you made.
Troubleshooting

Your computer has been fully tested and complies with the system specifications before shipping. However, incorrect operations and/or mishandling may cause problems. You may also encounter simple setup or operating problems that can solve by considering the following suggestions. If the problem persists, contact your dealer for service.

➢ Check to see if the power cord is properly plugged into the wall outlet and into the computer.
➢ Check to see the power indicator of the computer is on.
➢ Check to see if your keyboard is operational by pressing and holding any key.
➢ Check for any incorrect or loose cable connections. Make sure the latches on the connectors latch securely on to the receptor end.
➢ Be sure you have not performed an incorrect setting on the hardware devices in the BIOS Setup utility. A faulty setting may cause the system to malfunction. If you are not sure of the changes you made, try to restore all the settings to factory defaults.
➢ Be sure all the device drivers are installed properly. For example, without the audio driver
properly installed, the speakers and microphone will not work.

- Some software programs, which have not gone through rigorous coding and testing, may cause problems during your routine use. Consult the software vendor for problem solving.