

Intel-powered Classmate PC - Convertible



Preface

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Specifications

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-language support

Pointing Device

- PS/2 Touch pad with left- and right-click buttons and scrolling bar
- Supports two-finger 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, EC10-3S2200-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

- Automatic voltage adjustment between 100 and 240VAC 50/60Hz, 40Watts
 - Manufacturer: Shenzhen Huntkey Electric Co., Ltd. Model: HKA03619021-8C (AC 2 Pin)
 - Manufacturer: DELTA ELECTRONICS, INC. Model: ADP-40PH AB (AC 2 Pin)

BIOS

- Supports PnP & ACPI 2.0
- Supports external USB flash memory card boot up

Physical Outline

- Dimensions: 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 for children under 10 when using this Intel-powered Classmate PC-Convertible. It is necessary to provide a thorough explanation to students on the safe and proper handling of the 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 the 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 the 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 or desk, 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 measures that the students must understand before using this computer inside of the classroom or at home:



1. Do not place near 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 or apply heavy pressure to the computer.
6. Do not drop the computer.

Caution: The computer should be operated normally under an environmental temperature of 5°C – 35°C, high humidity (70%-90%) and dusty. The computer and power adapter shall withstand storage from -20°C to 60°C, humidity up to 95% and non-condensing conditions.

Caring for your Computer

Caution: To reduce the risk of electric shock when connecting external peripherals, such as a 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 in to a wall socket or turned “on”
- When cleaning the unit, clean it only with a damp soft cloth. Do not pour liquid onto the unit.
- Avoid using this device under wet conditions and be sure to carry it securely under these conditions.
- Prevent the touch pad from coming into contact with dirt, liquids or grease.
- Power cord must be removed before installing signal cables, whenever it is functionally and legally allowed.
- Power cords must be reconnected only after all of the 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 operations.

European Notice

Products with the CE Marking comply with both the EMC Directive (2004/108/EC) and the Low Voltage Directive (2006/95/EC) and R&TTE Directive (1999/5/EC) issued by the Commission of the European Community.

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'emette 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

Notice: 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.

US 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) 2 x 0.75mm² 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 be used with the following AC Adapter models only.

- Manufacturer – Shenzhen Huntkey Electric Co., LTD
 - Model – HKA03619021-8C (AC 2-pin)
- Manufacturer – Delta Electronic, INC.
 - Model – ADP-40PH AB (AC 2-pin)

Battery Pack Safety

- The battery pack is intended to be used only with this notebook.
- Only qualified service technicians should replace the battery pack.
- Do not disassemble the battery 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°C (113°F).
- To obtain a replacement battery, contact your local dealer.

- Do not expose the battery pack to high storage temperatures (above 60°C/140°F).
- Do not expose the battery pack to low storage temperatures (below 0°C/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.

Caution: Danger of explosion if battery is incorrectly replaced. Only qualified service technicians should replace and discard the battery pack. Replace only with the same or an equivalent type of battery 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.

Getting to Know the Basics

Welcome

Your Intel-powered Classmate PC-Convertible features the latest advances in portable computing technology. These procedures are intended for new PC users, such as students, to help them to get started.

For a complete education solution designed for 1:1 eLearning and classrooms around the world, please visit the following website:

www.intellearningseries.com

Touring the Computer

Opening the LCD Panel



Warning: Never try to use this computer with the battery removed, thus exposing the battery compartment, as this might cause a hazardous incident 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 short drops. Please be careful when handling your computer and it is recommended not to let the computer fall from high drops.

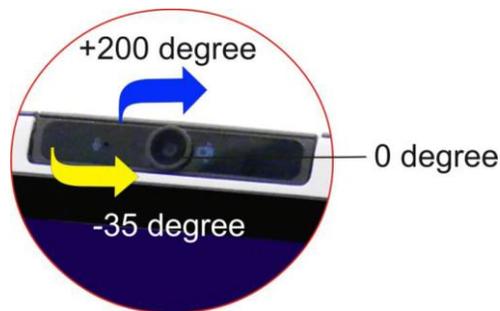
Warning: To avoid damage to the display panel:

- Try to avoid slamming the display upon closing it.
- Try to avoid placing any objects on top of the unit.
- Be sure that the system is turned off or in suspend mode before you close the display panel.

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



1. **Built-In Rotating Camera** – use the built-in rotating camera for video-conferencing, photography and videography.

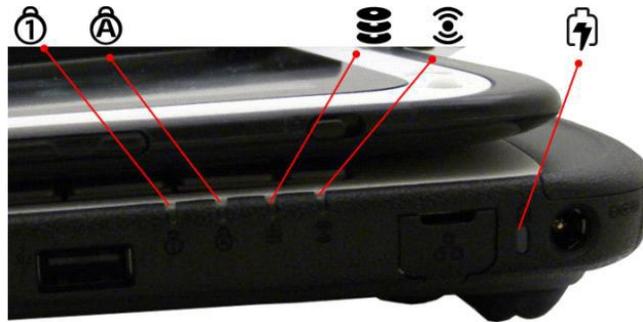


The built-in rotating camera can rotate from -35 - +200 degrees. You can rotate the built-in rotating camera back and forth on both sides of the display panel.

Note: The built-in rotating camera must be return to its original position for the display panel to close properly.

2. **LCD Display** – this panel is where the system content is displayed.
3. **Windows Key** – press once to quickly switch between Windows 8 start screen and 'desktop mode', when the computer is turned on 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 describes each indicator:



Blue light indicates the numeric keypad is activated.



Blue light indicates the cap-lock is activated.



Blue light indicates the device is reading/writing data.



Blue light indicates the WLAN module is active.



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 another party, or if you are making a voice recording on software.
6. **Power LED Status Indicator** – the blue light indicates that the system is ON.
7. **Power/Suspend Button** – press momentarily to turn on the system, and then press the button again to return for 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 touchpad is a built-in pointing device with functions similar to a mouse.
9. **Touchpad Buttons** – this works similar to the two buttons on a desktop mouse.

Left Views of Laptop



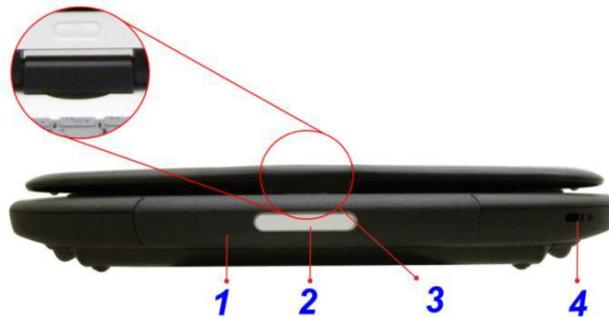
1. **External Monitor Port** – use this port to connect to an external monitor.
2. **HDMI Port** – compact audio/video interface for transmitting uncompressed digital data.
3. **USB 2.0 Port** – this port conforms to the latest USB2.0 plug-and-play standards.
4. **Ventilation Opening** – the ventilation 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 cards.
6. **Volume Buttons** – press the top of the button to increase the volume and the bottom of the button to decrease the volume.
7. **Screen Rotation Lock Button** – you can prevent the display from switching between portrait and landscape mode using this.

Right View of Laptop



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 USB 2.0 plug-and-play standards.
5. **Ethernet/LAN Port** – plug in your Ethernet cord here to access the network.
Note: When using a LAN, please use an EMI Shielding Cable to minimize any interference when transmitting.
6. **Power Jack (DC-in)** – the DC-out jack of the AC Adapter connects here to power the computer.

Rear View of Laptop



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 of Laptop



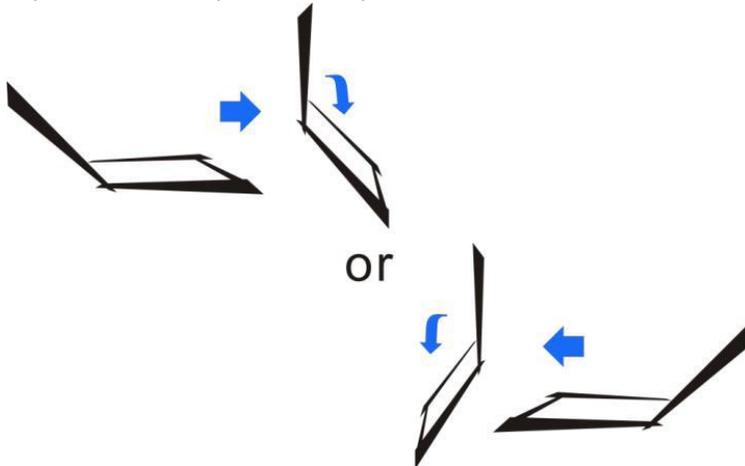
1. **Battery Bay** – this compartment contains the battery pack for your system.
2. **Battery Release Latch/ Lock Latch** – slide this latch to release or lock the battery from the battery bay.
3. **Built-In Stereo Speakers** – the built-in speaker outputs the sound from the computer.

Spill Resistance

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.

These are the ways to avoid damage to your system:

- Save all important documents within 3-minutes.
- Power off the system using the normal procedure through the start menu, unplug the AC Adapter, and remove the battery.
- Tilt the unit to the left-most and right-most position, and gently wipe the liquid off of the keyboard. Do not press the keyboard.



- Power on the system after letting it dry up for four hours.
- **Warning:** You can severely damage your system if you forcibly shut down the computer.

Getting Started

Connecting to a Power Source

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:



Warning: Do not use inferior extension cords as this may result in damage to your Intel-powered Classmate PC-Convertible. The unit 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 unit before turning it back on. Turning the unit on and off in rapid succession can damage it.

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 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” and 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 to the left into the unlocked position. The battery pack will pop 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 do not 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 ½ 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 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 of power remaining.

The red battery status LED indicator blinks and the system beeps 3 times in 1.2 sec (each beeping lasts 200ms and then it goes off for 200ms 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 the battery packs to temperatures below 0°C (32°F) or above 60°C (140°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% charged in about 75mins and fully charged in about 165mins

- Charging time for 6 cells (4400mAh) battery – the battery will be 70% charged in about 125mins and fully charged in about 240mins
- Charging time for 6 cells (5200 mAh) battery – the battery will be about 70% charged in about 150mins and fully charged in about 300mins

Note: If the 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 the battery when the temperature exceeds 45°C.

Checking the Battery Level

You can check the remaining battery power in the Operating System Battery Status Indicator.

Prolonging the Battery's Life and Usage Cycles

There are many ways that you can prolong the lifecycle of your battery:

- Use the AC Adapter wherever an 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 the 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 the Function + F7 keys to decrease the brightness of the screen.

Note: 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
- Discharge the battery by entering the BIOS setup screen. (Press F2 key as soon as you turn on the computer. Remain on the setup screen until the battery runs out.)
- Fully charge the battery again.

Using Power (Optional)

Operating System Power Manager provides basic power saving features. In the power configuration dialogue box, you may enter time-out values for the display and the hard disk drive. The Operating System Power Manager saves power by turning off hard drive after 1 minute of inactivity, for example.

Note: Consult the operating system user guide for more information on how to use the Operating System Power Management functions.

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 is saved in the hard disk before powering down. When this mode is activated, all system states 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 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 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's environment.

Using the 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 to disable 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 use spray cleaner directly on the display.
- Do not press on, or store any objects on the cover of the computer when it is closed. Doing so may cause the LCD to break.

Function Keys (Quick Keys)



- Fn** + **F1** - WLAN/3G/BT on/off.
- Fn** + **F2** - Enters the Suspend Mode.
- Fn** + **F3** - Mute the system volume
- Fn** + **F4** - Decreases the speaker volume.
- Fn** + **F5** - Increases the speaker volume.
- Fn** + **F6** - Changes Display Mode: LCD-only, External Monitor-only, LCD/External Monitor simultaneously
- Fn** + **F7** - Decreases the brightness level of the screen
- Fn** + **F8** - Increases the brightness level of the screen.

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 just as you would use your typical left and right mouse buttons.

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

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

TouchPad Precautions

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

- Make sure that 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 the 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's display panel also works as a touch screen. You can use the stylus pen to control system operations or simply as a pen for writing or illustration applications. When using the computer for the first time, power it on and follow the on-screen instructions on how to activate the touch screen.

Warning: Never try to tap or write on the screen with excessive force as 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 a writing pad. You can rotate the screen horizontally or vertically to suit your needs.



Warning: Do not try to turn the display panel more than 180 degrees.

Note: If you start to rotate the display panel in a clockwise manner, to return it to its original position, turn it counterclockwise, and vice versa.

To use the display panel as a writing pad

Make sure that the display panel is rotated to 180 degrees. Hold the display panel's upper corners and gently lower the display panel to the closed 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 stop, which protects against potential damage to the drive.

BIOS Setup and Security Features

The 'Setup Utility' is a hardware configuration program built into your computer's BIOS. 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 the manufacturer's 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 a computer nowadays. Unauthorized access can be prevented.

Entering the BIOS Setup Screen

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

Note: If you do not press the DEL key fast enough, you may have to recycle your device and try 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

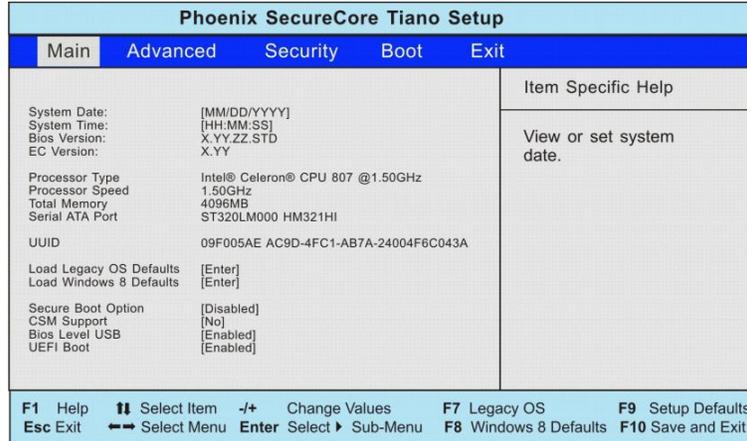
Legend Key	Alternate Key	Function
F1		Displays the General Help window. It can be enabled from anywhere in the BIOS.
Esc		Jumps to the Exit menu or returns to the Main menu from a submenu.
←		Selects the menu item to the left.
→		Selects the menu item to the right.
↑ Or ↓	Keypad arrow keys	Moves the cursor up and down between fields.
Tab	Enter	Moves the cursor to the next position available in the field.
Minus key (-)		Scrolls backward through the values for the highlighted field.
Plus key (+)		Scrolls forward through the values for the highlighted field.
Home	PgUp	Moves the cursor to the field at the top of the window.
End	PgDn	Moves the cursor to the field at the bottom of the window.
F7		Load Legacy OS defaults
F8		Load Windows 8 defaults
F9		Sets the parameters for the current menu to their default values.
F10		Save and exit.
Enter		Will select a sub menu or show a range of options for a field.

Modifying the BIOS Settings

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

Main Setup

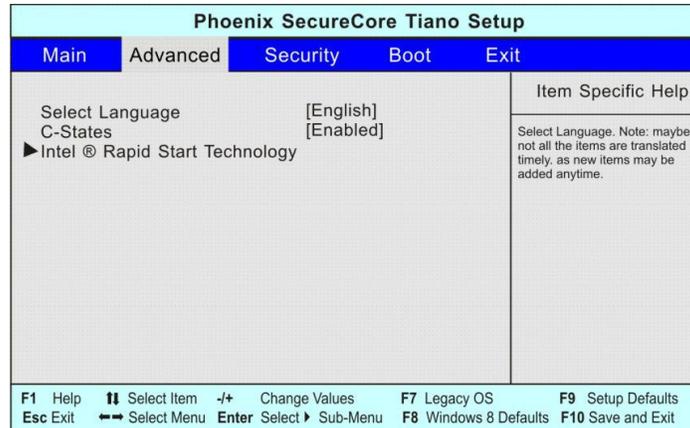
Under this menu, you may change the time/date and view the basic processor and system memory information.



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



Security

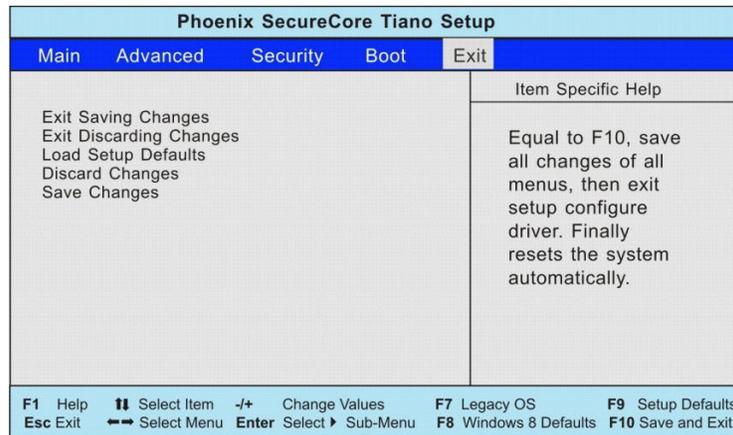
Phoenix SecureCore Tiano Setup				
Main	Advanced	Security	Boot	Exit
Secure Boot Configuration Supervisor Password is: Cleared User Password is: Cleared Set Supervisor Password [Enter] Supervisor Hint String [] Set User Password [Enter] User Hint String [] Authenticate User on Boot [Disabled] HDD Password Select [User Only] HDD Security Status HDD00 Password State Cleared Set HDD00 User Password [Enter]			Item Specific Help Secure Boot Configuration Settings	
F1 Help ↑↓ Select Item -/+ Change Values F7 Legacy OS F9 Setup Defaults Esc Exit ←→ Select Menu Enter Select ▶ Sub-Menu F8 Windows 8 Defaults F10 Save and Exit				

Phoenix SecureCore Tiano Setup				
Main	Advanced	Security	Boot	Exit
Secure Boot Configuration UEFI Secure Boot Disabled Protected Signatures Enabled (User Mode) Customized Signatures Disabled (Standard Mode) Certificates Win8 Certificates Secure Boot Option [Disabled] Reset to Default [Enter] Change to Customization [Enter]			Item Specific Help Enable or disable secure boot function.	
F1 Help ↑↓ Select Item -/+ Change Values F7 Legacy OS F9 Setup Defaults Esc Exit ←→ Select Menu Enter Select ▶ Sub-Menu F8 Windows 8 Defaults F10 Save and Exit				

Boot Setup

Phoenix SecureCore Tiano Setup				
Main	Advanced	Security	Boot	Exit
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.	
F1 Help ↑↓ Select Item -/+ Change Values F7 Legacy OS F9 Setup Defaults Esc Exit ←→ Select Menu Enter Select ▶ Sub-Menu F8 Windows 8 Defaults F10 Save and Exit				

Exit Setup



- **Exit 'Saving Changes'** – after you have completed the BIOS Settings, select this item to save all of the settings. Exit the BIOS Setup Utility, and reboot. The new system settings will take effect on the next power-up. The F10 key can be used for this operation.
- **Exit 'Discarding Changes'** – discards changes done so far to any of the setup questions and exits.
- **Load Setup Defaults** – load setup default value for all of 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** – saves the changes that you have 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 that 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 that the latches on the connectors latch securely on to the receptor end.
- Be sure that 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 have made, try to restore all of the settings to factory defaults.
- Be sure that all of 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 further problem solving.