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GIGABYTE M1405 Series Notebook Computer User's Manual  
Release Edition: 2010/ 05

This manual guides you in setting up and using your new notebook.  
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## Safety Instructions

Use the following safety guidelines to help protect yourself and your notebook.

### When Using Your M1405 Notebook Computer



**CAUTION:** Do not operate your portable computer for an extended period of time with the base resting directly on your body. With extended operation, heat can build up in the base. Allowing sustained contact with the skin can cause discomfort or a possible burn.

- Do not attempt to service the notebook yourself. Always follow installation instructions closely.
  - Do not carry a battery in your pocket, purse, or other container where metal objects (such as car keys) could short-circuit the battery terminals. The resulting excessive current flow can generate extremely high temperature and may cause burns to your skin.
  - Be sure that nothing rests on your AC adapter's power cable and that the cable is not located where it can be tripped over or stepped on.
  - While you are using the computer or charging the battery, place the AC adapter in a ventilated area, like on a desktop or on the floor. Do not cover the AC adapter with papers or other items that may prevent ventilation. Also, do not use the AC adapter while it is inside a carrying case.
  - Do not insert objects into the air vent of your notebook computer. Doing so can cause short-circuiting and may result in fire or electrical shock.
- Use only the AC adapter and batteries that are supplied by your notebook manufacturer. Using other types of battery or AC adapter may heighten the risk of fire or explosion.
  - Incorrectly installed or placed batteries may result in an explosion.
  - Replace only with the same or a compatible battery recommended by the manufacturer.
  - Please discard used batteries according to the manufacturer's instructions.
  - Before you connect your notebook to a power source, ensure that the voltage rating of the AC adapter matches that of the available power source.
    - 115 V/60 Hz in most of North and South America and some Far Eastern countries such as South Korea.
    - 100 V/50 Hz in eastern Japan and 100 V/60Hz in western Japan.
    - 230 V/50 Hz in most of Europe, the Middle East, and the Far East.
  - If you use an extension cord with your AC adapter, ensure that the total ampere rating of all devices plugged into the extension cord does not exceed its total capacity.
  - When removing a battery from your notebook, first turn off the system, disconnect the AC adapter from the electrical outlet, and then remove the battery.
  - To avoid risk of an electrical shock, do not connect or disconnect any cables, or perform any maintenance or reconfiguration of this product during a thunderstorm.
  - Do not throw batteries into a fire, doing so may cause explosion. Check with local authorities first for battery disposal instructions.
  - When setting up your notebook for work, place it on a level surface.

- When traveling, do not check your notebook as baggage. You can put your notebook through an X-ray security machine, but never put your notebook through a metal detector. If you have your notebook checked by hand, be sure to have a charged battery ready in case you are asked to turn on your notebook.
- When traveling with the hard drive removed from your notebook, wrap the drive in an insulated material, such as cloth or paper. If you have the drive checked by hand, you may be asked to install the drive into your notebook. You can have the hard drive checked through an X-ray machine, but never put the drive through a metal detector.
- When traveling, do not place your notebook in the overhead storage compartment where it could shift around. Do not drop your notebook or subject it to other mechanical shocks.
- Protect your notebook, battery, and hard drive from environmental hazards such as dirt, dust, food, liquids, extreme temperature, and direct exposure to sunlight.
- When you move your notebook in environments where there is a substantial difference of temperature or humidity level, condensation may form on or within your notebook. To avoid damaging your notebook, please allow sufficient time for the moisture to evaporate before continuing use of the notebook.

*NOTICE: When taking your notebook from a colder to a warmer environment or vice versa, allow your notebook enough time to adapt to the new environment before turning on power.*

- When unplugging the power cord, please make sure that you pull on its connector or on its strain relief loop, and not on the power cord itself. As you pull out the connector, please ensure

that it is pulled out evenly in order not to bend its connecting pins. Also, before you connect the power cord, make sure that both connectors are correctly oriented and aligned.

- Before you clean your notebook, turn it off first, unplug it from its power source, and remove the battery.
- Handle interior components with care. When removing a component, please hold it by the edge and not on the connecting pins (such as the memory module).

When using your telephone equipments, safety instructions should always be followed in order to prevent fire, electrical shock or injuries, these instructions include:

- Do not use this product near water, for example, near a bathtub, washing basins, kitchen/laundry sinks, wet basements or swimming pools.
- Avoid using cordless phones during an electrical storm as lightning may cause electrical shocks.
- Do not use the telephone to report a gas leak within the leakage area.

#### WARNING: Voiding of the Warranty

- \* If the battery is not properly handled, there may be a risk of explosion; make sure you are using the same or compatible battery.
- \* Please discard used batteries according to the instructions given by the manufacturer.
- \* Please be aware that use of cracked, severely scratched or poor quality discs may damage the optical drive and corrupt data in the disc. Such discs may break while drive operates in high-speed, in this case, your product warranty may be voided.

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## Regulatory Notices

### Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. 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 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/TV technician for help.
- All external cables connecting to this basic unit must be shielded.

For cables connecting to PCMCIA cards, see the option manual or installation instructions.

### RF Exposure

This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

## CE Notice (European Union)

This symbol  indicates this M1405 notebook complies with the EMC Directive and the European Union's Low Voltage Directive. This symbol also indicates that M1405 meets the following technical standards:

- EN 55022 — “Limitations and Methods of Measurement for the Radio Interferences of Information Technology Equipment.”
- EN 55024 — “Information technology equipment - Immunity characteristics - Limits and methods of measurement.”
- EN 61000-3-2 — “Electromagnetic compatibility (EMC) - Chapter 3: Limits - Section 2: Limits on the harmonic current emissions (Equipment input current up to and including 16 A per phase).”
- EN 61000-3-3 — “Electromagnetic compatibility (EMC) - Chapter 3: Limits - Section 3: Limits on the voltage fluctuations and flicker in low-voltage power supply systems for equipment with rate current up to and including 16 A.”
- EN 60950 — “Safety of Information Technology Equipment.”



NOTE: EN 55022 emissions requirements provide for two classifications

- Class A governs commercial use
- Class B is governs residential use

### For CB:

- Only use batteries designed for this computer. The wrong battery type may explode, leak or damage the computer.

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

## Battery Disposal & Caution

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

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

#### **BSMI Notice (Taiwan Only)**

Most Booktop computers are classified by the Bureau of Standards, Meteorology and Inspection (BSMI) as Class B information technology equipment (ITE).



R32323

The symbol above must be attached to the product indicating compliance with the BSMI standard.

#### **Replaceable Batteries**

If an equipment is provided with a replaceable battery, and if replacement by an incorrect type could result in an explosion (for example, with some lithium batteries), the following applies:

- if the battery is placed in an operator access area, there shall be a marking close to the battery or a statement in both the operating and the servicing instructions;
- if the battery is placed elsewhere in the equipment, there shall be a marking close to the battery or a statement in the servicing instructions.

This marking or statement shall include the following or similar text:

CAUTION  
RISK OF EXPLOSION IF BATTERY IS REPLACED  
BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES  
ACCORDING TO THE INSTRUCTIONS





## Introduction

Congratulations and thank you for purchasing the GIGABYTE M1405 series notebook computer. This portable notebook computer provides excellent expansion capability thanks to the docking station, includes multimedia functionality, and is designed to provide reliable, no fuss computing.

This manual will tell you how to setup and begin using your M1405. It provides basic configuring, operations and care, and troubleshooting.

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English

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## Chapter 1 Knowing Your M1405

This chapter provides basic information to start using the M1405 notebook.

Some of the features described herein may not function properly or at all unless used in conjunction with the pre-installed operating system. Any change to the operating system may cause improper function.

## 1.1 Hardware Checklist

Carefully unpack the M1405 notebook, taking care to save the box and any packaging for possible future use.

### In The Box

Check to make sure you have all the following items:

- GIGABYTE M1405 Notebook Computer
- AC Adaptor and Power Cord (plug depends on region)
- The Battery Pack

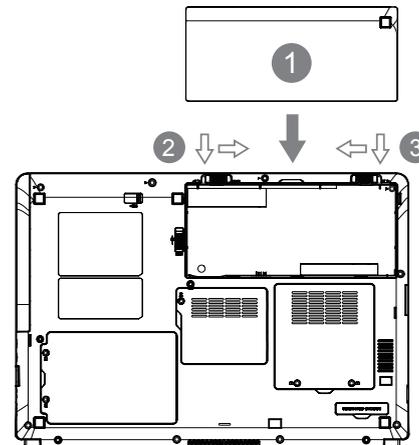
## 1.2 Using the Battery Pack

### How to Insert the Battery Pack

To insert the battery simply follow the easy steps below.

Locate the battery bay, which should be empty (located on the right side of the notebook when viewed as in the image above) and then align and place the battery into the bay.

Press the battery down to activate the 2 clips (Shown as 2 & 3) that secure the battery into the bay. Clip 2 needs to be manually pressed to the right to lock in place. Clip 3 will automatically clip into place.

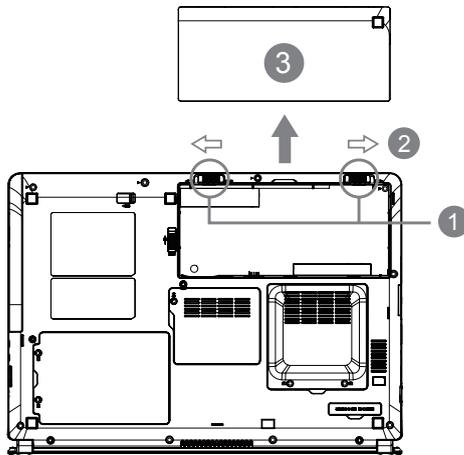


### How to Remove the Battery Pack

To remove the battery simply follow the easy steps below.

Locate the 2 battery clips (Shown as 1 & 2) and clip them in opposite directions. Clip 1 will stay locked; clip 2 needs to be held in the open position. Locate the gap (circled) and use it to lift the battery.

Once lifted, pull the battery out of the bay, (Shown as 3) and continue until the battery is completely out of the bay. Ensure to store the units battery in a safe and secure place so that it does not get damaged.

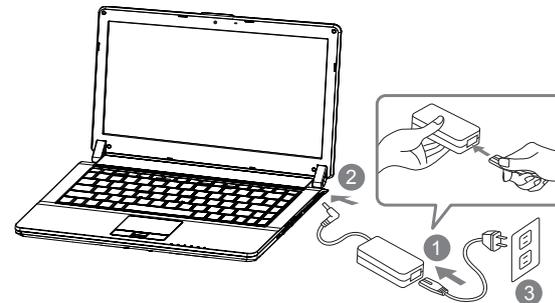


### 1.3 Connecting the AC Adaptor

Connect the AC adaptor when you need to charge the battery or want to operate using direct power. If the notebook is new and has not been used the battery pack will need to be charged before you can operate from the battery use battery power.

The AC adaptor can be connected to any power source supplying from 100 to 240 volts and 50 or 60 hertz. This allows the AC adaptor to work in most countries and regions.

It is recommended to use only the AC adaptor supplied with the M1405 and any AC adaptor approved by the supplier. Using any other adaptor could cause damage or malfunction and might result in injury.

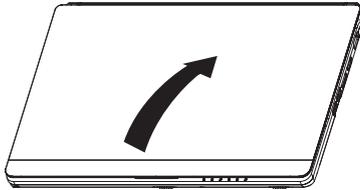


1. Connect the power cord to the AC adaptor.
2. Connect the AC adaptor to the DC-in jack on the left side of the notebook.
3. Connect the power cord to the power outlet.

## 1.4 Opening the LCD Panel

The display panel can be opened to an almost any angle for an optimal display, depending on the hinges of the LCD.

While holding down the palm rest with one hand so that the notebook does not lift with the panel, lift the display panel itself and adjust the tilt until the viewing angle is comfortable.



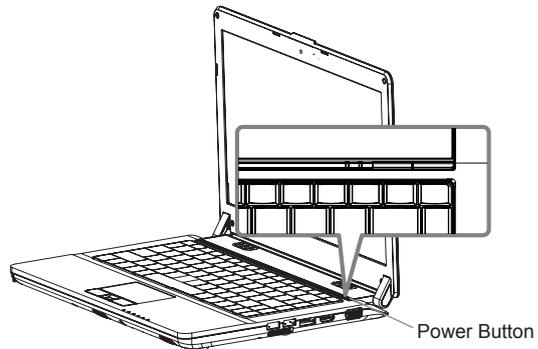
- ⓘ Use extreme care when opening and closing the LCD display panel. Opening it too fast or slamming it closed could damage the panel or notebook.
- ⓘ Do not open the panel too far as this could stress or damage the hinges and loosen the panel, as it has no restraining latch and it relies on the hinges to remain closed and open.
- ⓘ Do not press or push on the panel or panel cover as it could cause damage to the panel.
- ⓘ Do not lift the notebook using the panel and do not put anything in between the panel and the keyboard when closing the panel.

- ⓘ When opening or closing the display panel, place one hand on the palm rest to hold the computer in place and use the other hand to slowly open or close the display panel. (Do not use excessive force when opening or closing the display panel)

## 1.5 Turning on the Unit

This section explains how to turn on the M1405 - the Power indicator will show if the unit is then on or not by illuminating.

After you turn on the M1405 for the very first time, do not power it down until the operating system has been configured. Please note that the set volume cannot be changed until Windows Setup has completed.



### Starting Up the M1405 for the First Time

Depending on your configuration, the Microsoft Windows Startup Screen will be the first screen that you are shown when the notebook is booted up.

Follow the on-screen prompts and instructions in order to configure the unit's operating system.

When the Software License Terms are displayed, be sure to read them and agree with them before proceeding.

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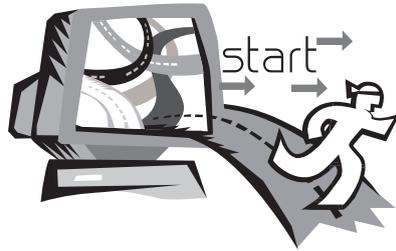
## 1.6 Turning Off the Power

### System Shut Down

When you turn off the power (Shut Down), the system is fully powered off. The notebook will boot normally when switched on again.

- a. If you have unsaved work or are busy, ensure that you save it to the hard disk drive or any other storage device.
- b. Make sure that the storage device or media are not in use before you remove the media or device. If not done, data loss may occur.
- c. Make sure that the hard disk or optical disc drive indicator light is off. If you turn off the system while either is being accessed, data loss can occur and disk damage may occur.
- d. Never turn off the notebook while any program is running, as doing so may result in data loss or the program no longer working as intended.
- e. The Shut Down Method is slightly different for each operating system.

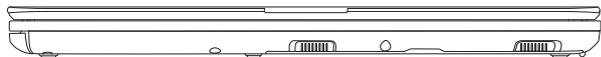
For Windows 7, use the Start Menu to shut down the system. Under Windows 7, choose the "Shut Down" icon.



## Chapter 2 The M1405 Tour

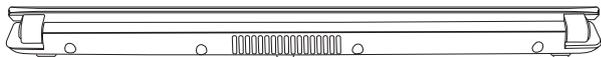
This chapter will show you the various ports and components of the M1405 and familiarizes you with the notebook. Certain parts of the notebook can be user upgraded while others are fixed and cannot be changed.

## 2.1 Front View



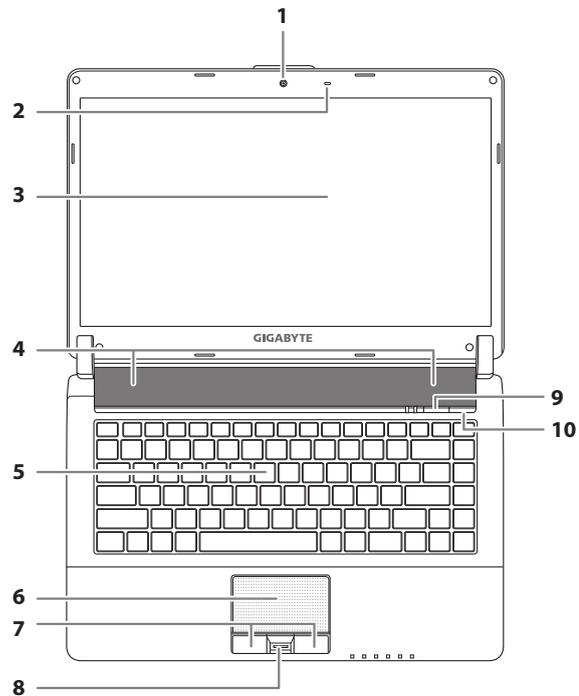
Please be careful when opening the LCD display panel. It is suggested to open it by holding the silver tip.

## 2.2 Rear View



The air vent is used as the exit port for the hot air in the system. This Vent should never be blocked and covered in any way as the system could overheat.

## 2.3 Top View



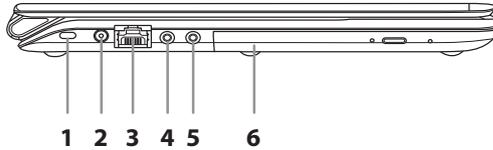
#	Icon	Item	Description
1		Webcam	Webcam for video communication.
2		Microphone	Internal microphone for sound recording.
3		LCD Display	Displays computer output.
4		Speakers	Left and right speakers deliver stereo audio.
5		Keyboard	For entering data into your computer.
6		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
7		Click Buttons	The left and right buttons function like the left and right mouse buttons.
8		Fingerprint Reader	Fingerprint scanner for added system security.
9		a). Smart Setup b). Smart Manager	a). During the off mode, press "+SMART" button to enter "Smart Setup" menu. You can choose BIOS Setup Utility, System Recovery, and other functions in this setup menu. b). In the Windows operating system, press "+SMART" button to initiate "Smart Manager".
10		Power Button	Turns the computer on and off.

## 2.4 LED Indicators

These LED lights show that stats of certain system components and their activity.

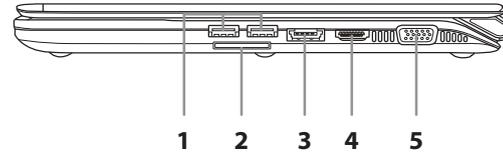
#	Icon	Item	Description
1		Num Lock LED	Indicates the computer's embedded numeric keyboard status for numeric data input.
2		Cap Lock LED	Indicates the computer's input are all capital letters.
3		WWAN Status LED	Indicates when the WWAN device is active. (WWAN module may be optional)
4		Bluetooth Status LED	Indicates when the Bluetooth device is active. (Bluetooth may be optional)
5		Wireless LAN Status LED	Indicates when the WiFi LAN device is active.
6		HDD Status LED	Indicates when the hard disk drive is active.
7		Battery Status LED	Flash when charging, and off when the battery is full.
8		Power Status LED	Indicates the computer's power status.

## 2.5 Left View



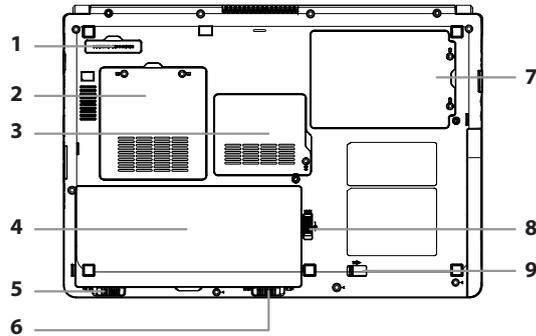
#	Icon	Item	Description
1		Kensington Lock Slot	Connects to a Kensington-compatible computer security lock.
2		DC-in Jack	Connects to an AC adapter.
3		Ethernet Port	Connects to an Ethernet 10/100/1000 Base-T
4		Headphone Jack	Connects to audio line-out devices such as speakers and headphones.
5		Microphone Jack	Accepts inputs from external microphones.
6		Optical Disc Drive	The optical disc drive is used to read and write to CD and DVD discs depending on the notebooks configuration.

## 2.6 Right View



#	Icon	Item	Description
1		USB 2.0 Port	Connects to USB devices such as USB mouse, USB printers and USB external HDD.
2		Multi Card Reader	Accepts Secure Digital (SD), Multi Media Card (MMC), Memory Stick (MS) and Memory Stick PRO (MS PRO). Note: Push to remove/install the card.
3		eSATA /USB 2.0 Combo Port	The combo port doubles as an eSATA and a USB port allowing USB devices and external Hard Drives to be connected using just one port.
4		HDMI Port	Supports high definition digital video connections.
5		External Display (VGA) Port	Connects to a display device such as external monitor and LCD projector.

## 2.7 Base View



#	Icon	Item	Description
1		Docking Port	Connects to the Docking station for extension function. (Docking may be optional)
2		Memory Compartment	Housed the computer's main memory (secured with screws).
3		Communication Bay	Housed the computer's WiFi LAN and WWAN card (secured with screw).
4		Battery Bay	Houses the computer's battery pack.

5		Battery Release Latch	Release the battery for removal.
6		Battery Lock	Locks the battery in position.
7		Hard Disk Bay	Housed the computer's hard disk (secured with screws).
8		Optical Disc Drive Lock	Locks the optical disc drive in position.
9		Optical Disc Drive Release Latch	Release the optical disc drive for removal.





## Chapter 3 Using the M1405

This chapter will briefly explain the basics of using the M1405 notebook. It will also explain any necessary precautions when using the M1405.

### 3.1 The M1405 Keyboard

#### The M1405 features a Windows Compatible Keyboard.

The set language of the keyboard will depend on the region. This section is for the English Qwerty Layout Keyboard. It is compatible with a standard 104/105 Key Windows keyboard, accessed by using specific key press combinations and the hotkeys. The number of keys on the keyboard will also vary by language and region.



(English M1405 Qwerty Keyboard Layout)

#### The M1405 Hotkeys

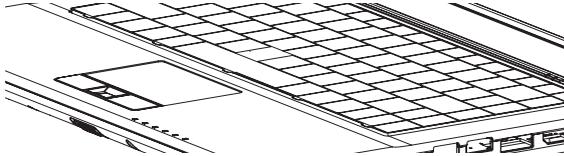
The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness and volume output. To activate hotkeys, press and hold the <Fn> key before pressing the other key in the hotkey combination.

Hotkey	Function	Description
<b>Fn+F1</b> 	Sleep	Puts the computer in Sleep mode.
<b>Fn+F2</b> 	Wireless LAN	Enables/disables the Wireless LAN function.
<b>Fn+F3</b> 	Brightness Down	Decrease the screen brightness.
<b>Fn+F4</b> 	Brightness Up	Increases the screen brightness.
<b>Fn+F5</b> 	Display Toggle	Switches display output between the display screen, external monitor (if connected) and both.
<b>Fn+F6</b> 	Touchpad Toggle	Turns the internal touchpad on and off.
<b>Fn+F7</b> 	Speaker Toggle	Turns the speaker on and off.
<b>Fn+F8</b> 	Volume Down	Decreases the sound volume.
<b>Fn+F9</b> 	Volume Up	Increases the sound volume.
<b>Fn+F10</b> 	WWAN	Enables/disables the WWAN function.
<b>Fn+F11</b> 	Bluetooth	Enables/disables the Bluetooth function.
<b>Fn+F12</b> 	Webcam	Turns the internal webcam on and off.



### 3.2 The Touchpad

The touchpad is very simple to use. It represents the mouse pointer on screen. Simply use your finger and slide it in the direction you want the pointer to move. The touchpad reads only 1 finger at a time. Do not use anything other than your finger on the touchpad.



#### Touchpad Buttons

The touchpad has two buttons, these serve as the Left and Right side mouse buttons like those on a standard mouse. The Left button is used to select and manipulate icons, graphics, text and other items. The Right button is used to display a Context Options menu for the unit's operating system and/or programs.

In the center of the two buttons you will notice a Fingerprint Reader. We will now briefly discuss the use of the fingerprint reader.

### 3.3 The Fingerprint Reader

The M1405 features a fingerprint reader. It includes a Security Tool to use to store your fingerprints and use the tool for quick authentication and also remove the need for typed passwords. The Fingerprint reader allows you to:

Swipe your finger instead of typing passwords: Can be used for websites Applications, Windows Passwords.

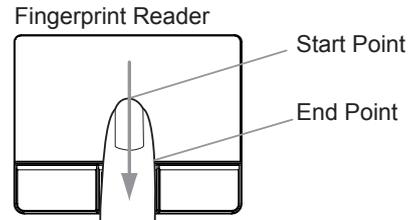
Allows the user to protect files and folders and access to them requiring the fingerprint to decrypt and allow access.

Log into Windows, Unlock Windows and disable password based items such as Screen Saver or Sleep/Hibernation.

#### Method to Swipe Your Finger(s)

Use the below steps to correctly swipe your finger and record the needed fingerprint information into the system. This will help you to ensure that you do not struggle setting up the security feature. Launch the security tool to start the process and follow all on screen prompts carefully.

Line up the finger central to the reader and at the start of the fingerprint (Not the tip of your finger, but near the first joint) and then place this section onto the reader and draw the finger back towards you, not too fast, so that the scanner can read the print. You will be notified if it is a good scan or a bad scan, and it will store once successful. It is recommended to store more than one fingerprint as a precaution; 2 to 3 Prints will be ideal. As you will see in the illustration below, it will show the ideal way to scan.

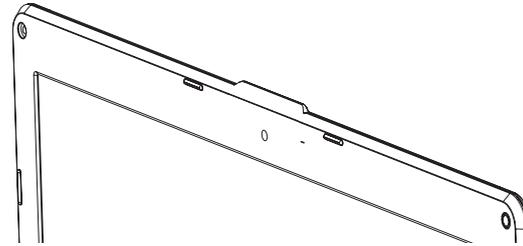


Draw finger in this direction

Avoid using the fingerprint scanner when: Your fingers are dirty or grimy, Soiled, Oily, Injured, Very Dry or Flaky, Wet, Soaked, Swollen or Wrinkled as this could damage the reader or prevent it from accurately reading the stored prints. Do not use any foreign objects on the scanner.

### 3.4 The Webcam

The webcam is an embedded camera that is used to capture video, take still images and to do video conference calls or person to person video chat. For example: Windows Live Messenger.



### 3.5 Optical Disc Drive

The M1405 features a preinstalled DVD Super Multi Optical Writer Drive. When in use, the drive has a flashing LED in the face and will not open.

It supports a wide range media types. The drive can also support or play Dual Layer types.

#### Supported CD Writable Formats

- 1 CD-R - These discs can be written on once. The data put on the disc cannot be changed or erased/deleted.
- 2 CD-RW - These discs can be written to more than once and can be erased. They have a limited number of erases.

#### Supported DVD Writeable Formats

For a Super Multi DVD Writer drive

- 1 DVD-R and DVD+R discs - These can only be written on once. The data on the DVD Disc cannot be changed or erased/deleted.
- 2 DVD-RW, DVD+RW and DVD-RAM discs support being written on to more than once. They have a limited number of erases.

#### For a Super Multi Dual Layer DVD Writer Drive

- 1 DVD-R, DVD+R, DVD-R (Dual Layer) and DVD+R (Double Layer) discs can only be written on once. As with other write once discs the data that is on the discs cannot be changed or erased/deleted.
- 2 DVD-RW, DVD+RW and DVD-RAM discs can be recorded to more than once. They have a limited number of erases.

#### Optical Disc Drive

To open the optical disc drive, press the button on the drive shown below and the drive will pop out. Pull the drive gently to extend it. Media will then need to be pressed onto the center spindle to secure the media. To close the drive simply press it closed until it clicks into place. The drive will then initialize and the disc will be read by the drive.

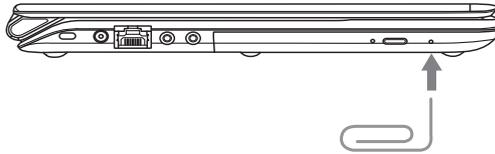


Drive Release Button



1. Press the drive release button to open the drive. Pull gently once it pops open.
2. Place the disc into the center of the drive and click into place onto the round spinner section to secure the disc.
3. Close the drive to initiate reading of the disc.

### Emergency Release

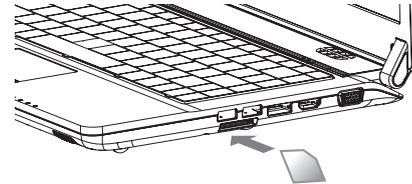


In the event that the drive will not open, an emergency release will need to be performed. Take a thin long item, such as a paper clip and put it gently into the small hole on the side of the drive and press inwards until the units drive clicks out. This should only be performed if the drive is stuck and will not open at all using the release button or the eject command in windows.

## 3.6 Using a Memory Card

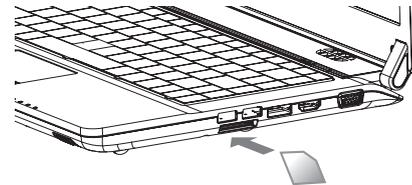
### How To: Insert a Memory Card

To Insert the Memory Card, place the front of the card (Contacts facing down) into the card reader slot and push or click in (depending on cards format). Your operating system should auto-play the card.

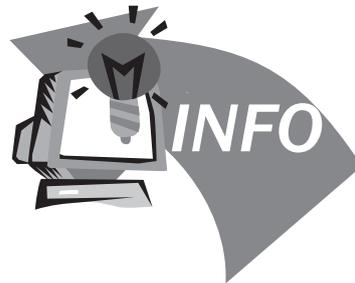


### Remove a Memory Card

To remove the Memory Card, gently pull the card from the slot. Ensure that the card is not being read from or written to when removing.







## Chapter 4 The M1405 Specifications

## 4.1 The M1405 Notebook Hardware

The M1405 will be available in a number of different specifications. The listing below shows the possible configurations supported by the M1405. The actual specifications will depend on the M1405 model purchased.

### Processor

- Intel® Core™2 Duo ULV Processor
- Intel® Pentium® ULV Processor
- Intel® Celeron® ULV Processor

### Memory

The M1405 supports 2x DDRIII Modules

### Chipset

- Mobile Intel® GS45 Express Chipset

### Graphics

- Intel® Mobile GMA 4500MHD Graphics Controller.  
\* This graphics controller shares system memory.

### Display

14", LED Backlight, Wide XGA - 1366x768 Framed

### Hard Disk

250GB/320GB/500GB 2.5" SATA HDD

### Optical Disk Drive

- Slim-Body DVD- Super Multi Dual-Layer Drive

### Bluetooth

- Bluetooth 2.1 with EDR (Enhanced Data Rate)  
\* Bluetooth Depends on model purchased

### Ethernet, WiFi and 3.5G

- 10/100/1000 Base-T RJ45 Ethernet
- 802.11 b/g/n Wireless LAN
- Built-In 3.G Antenna - Optional 3.5G Modem Mini Card

### Audio

- 2x 1.5 Watt Speakers
- Internal Mic-in

### Card Reader

- 4-in-1 Card Reader –
  - Support Secure Digital (SD)
  - Multi Media Card (MMC)
  - Memory Stick (MS)
  - Memory Stick PRO (MS PRO)

### I/O Port

- 2x USB 2.0, 1x eSATA/USB Combo
- 1x HDMI, 1x D-sub
- 1x RJ45
- Mic-in, Earphone-out
- 4-in-1 Card Reader
- DC-in Jack
- Docking Port

### Battery Pack and AC Adaptor

- Battery: Li-polymer 6-cell, 39.96Wh, 3600mAh
- Input: 100~240V AC, 50/60Hz Universal
- Output: 19V DC, 3.42A, 65W

### Security

- Kensington Lock Hole Biometric Fingerprint Reader

**Dimension & Weight**

- 328.3(W) x 230(D) x 27.6(H) mm
- ~1.62kg (with 6-cell battery)
- ~1.75kg (with ODD and 6-cell battery)

**Service**

- More service information, please refer to [www.gigabyte.com.tw](http://www.gigabyte.com.tw)



.....

*The above specification is for users' reference. The final configuration depends on the M1405 users bought.*

**4.2 The M1405 Special Functions****Docking Station (Optional)**

The M1405 supports the unique docking station. The docking station provided the main options to connect peripherals.

**Second Battery Pack (Optional)**

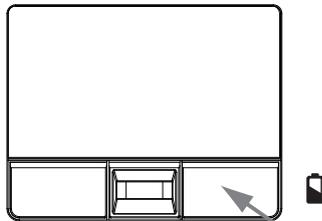
The M1405 supports unique second battery pack, you can dismount the optical disc drive, and install second battery pack to extend battery life.

### 4.3 The M1405 Quick Battery Life Test

#### How To Test the Battery Life

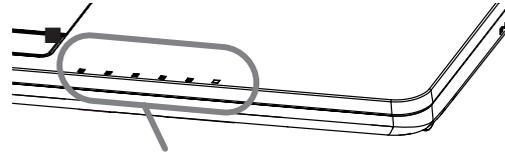
The M1405 features a special function to test the life remaining in the battery. This function is tied to the secondary mouse button of the units touchpad. The below section briefly explains how to use this feature on the notebook to enable you to check the battery life of the M1405.

Locate the secondary mouse button (Right Button) and look for the small battery icon next to the button as shown below. You can then press the button in for about 3 to 5 seconds to begin the test. (The notebook needs to be off to enable the test).



Battery status, Press here.

Once pressed, the 6 Status LED Lights will illuminate between 1 and 6 - The more lights illuminated, the higher the battery capacity of the battery, while the less lights, the lower the capacity.



e.g. 5 out of 6 Illuminated



## Chapter 5 The M1405 Utilities

## 5.1 GIGABYTE Smart Manager

The GIGABYTE Smart Manager is a simple utility that gives direct control of system settings to the user in a simple interface. Simple things such as turning the Wireless LAN on or off to adjusting the display brightness can be controlled from this simple yet powerful tools.

### Smart Manager Introduction

Due to variations of Smart Manager versions, the interface, icons, sequence and functions might be different comparing to the guide. Please operate the Smart Manager by the version preloaded.



### **Battery Status:**

Battery icon will be shows the capacity after properly install the battery. If the battery icon turns in 'red' color, it means the battery is under low power usage.

### **AC-in:**

If the AC Adapter is plugged in, the AC-in icon turns in 'green' color.



### **Volume Control:**

Press the volume control icon to adjust the volume level.



### **Mute:**

Press the mute icon to enable/disable the mute mode.



### **Brightness:**

Press the brightness icon to adjust the level of the display backlight brightness.



### **Power Mode:**

Press the power mode icon to select different power management mode.



### **Wireless LAN:**

Press the Wireless LAN icon to enable/disable Wireless LAN connectivity.



### **Bluetooth:**

Press the Bluetooth icon to enable/disable Bluetooth radio.

**3G:**

Press the 3G icon to enable/disable 3G device. (Optional)

**Camera:**

Press the camera icon to turn on/off Webcam power.

**Smart Charge:**

Press the Smart Charge icon to select different power supplying mode (30%, 40%, 50% or Off) when using USB power. \* (Optional)

**Screen Output Setting:**

Press the camera icon to turn on/off Webcam power.

**Windows Docking Gadget:**

Press the Docking Gadget icon to activate Docking Gadget.

**Smart Turbo:**

Press the Smart Turbo icon to enable/disable Smart Turbo function. \*\*

**\* The Introduction of GIGABYTE Smart Charge Function**

The GIGABYTE Smart Charge allows you to charge your digital devices through USB ports while the computer is in the sleep mode. When your computer is powered through an AC adapter by direct AC power supply, you will be able to use Smart Charge when the computer is in Off/Sleep/Hibernation mode. However, if the battery pack is the sole power supply for your computer, Smart Charge only works in Off/Hibernation mode.

To ensure sufficient power supply for system operation, you can set the computer (via GIGABYTE Smart Manager) to automatically cease this function at 50/40/30% of power level.

(Note: Smart Charge function is available in selected models.)

**\*\* The Introduction of GIGABYTE Smart Turbo Function**

The enhanced system performance can be realized by the exclusive GIGABYTE Smart Turbo over-clocking technology. You can switch on/off the Turbo Mode through GIGABYTE Smart Manager user interface, Note that such setting will require a system reboot to be effective. You can also choose "Start with Smart Turbo Mode" through our Smart Setup button to enjoy Turbo Mode during the current working session without system reboot. However, once reboot, the system will switch on/off the Turbo Mode according to your setting in GIGABYTE Smart Manager.

## 5.2 GIGABYTE Smart Recovery

System Recovery - Restore your M1405 Operating System

The hard drive of the M1405 has a hidden partition that contains a full backup image of the operating system that can be used to recover the system in the event that something happens to the operating system.

**!** *If the hard drive is removed or the partition deleted, the recover options will no longer be available and a recovery service will be needed.*

### Launch System Recovery

The System Recover feature is part of the notebook installation and it ships preset from the factory. The Options menu allows you to launch the Windows Recovery tool to reinstall the operating system to factory defaults.

Below will briefly describe how to launch the Recovery Tool and to get the recovery started.

1. Turn off or restart the notebook.
2. Turn the notebook on and press and hold the F9 key to launch the tool.



3. The recovery window will open and give you the option to "Recovery" in the toolbar. You will be prompted if you want to recovery. Click on "Recovery" to begin the repair if you do.



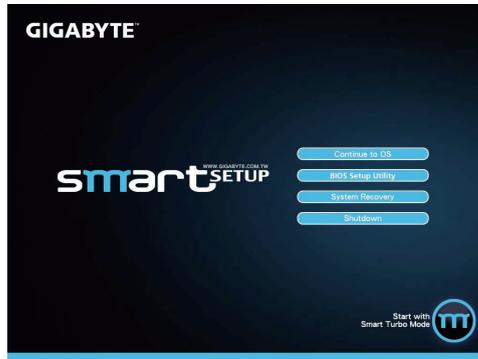
4. The "Recovering" Window will open and begin the recovery.



5. Once it is complete you will be prompted to reboot the notebook.

### 5.3 GIGABYTE Smart Setup

During the off mode, press SMART button to enter “Smart Setup” menu. You can choose BIOS Setup Utility, System Recovery, and other functions in this setup menu.



Press “Continue to OS” button to enter operating system.

Continue to OS

Press “BIOS Setup Utility” button to enter BIOS setup utility.

BIOS Setup Utility

Press “System Recovery” button to enter GIGABYTE Xpress Recovery.

System Recovery

Press “Shutdown” button to shutdown the system.

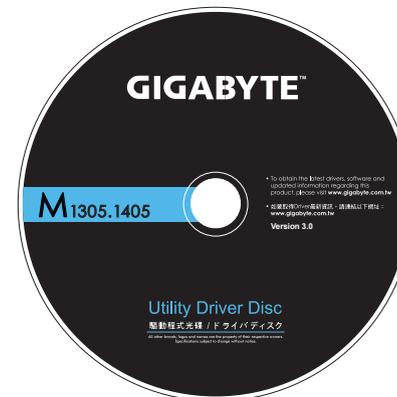
Shutdown

### 5.4 GIGABYTE Utility Driver Disc

The GIGABYTE M1405 Comes with a Driver and Utilities Disc should you need to reinstall any drivers, or if you are installing the operating system because it did not ship with the notebook. If the M1405 shipped with an installed operating system the drivers should be present.

Before installing drivers, check on the notebook and with the supplier as to whether they have already installed all the drivers with the operating system, if not, please follow the steps below:

1. You can find the Utility Driver CD like the one shown below: Your Driver CD might differ in look to the one below and it will have the same notebook model on the Driver CD.
2. Put the CD into the optical device. An installation screen will appear. You can then install all or the needed drivers from the interface.





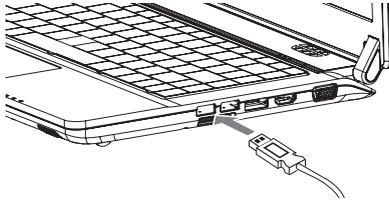


## Chapter 6 Connecting Peripherals and Upgrade

## 6.1 How To Connect USB Devices

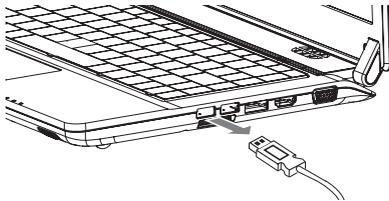
### Connect a USB Device

To connect a USB device simply line it up with the USB port on the unit and press it into the port securely. It will only go in one way because of the notching used so ensure that it is lined up correctly and do not force the USB connector into the port if it does not want to go in. USB Devices support Plug and Play and should auto discover inside the units operating system and install drivers or request drivers.



### Disconnect a USB Device

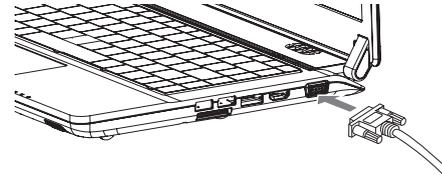
To remove the device, look for the Safely Remove Hardware icon on the taskbar and open the tool by double clicking with the left mouse button. Select the device you would like to remove and click on stop, and windows will then let you know that it is safe to remove the device, and then pull the cable out of the port.



## 6.2 How To Connect Displays

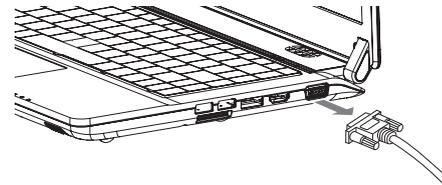
### Connect an External Display

To insert the cable, simply line it up with the port on the side of the M1405 and press it into the port securely. Please note that the port does not have screw pin holes and the connector cannot be screwed into the M1405. Please make sure that the cable is seated firmly and securely.



### Disconnect an External Display

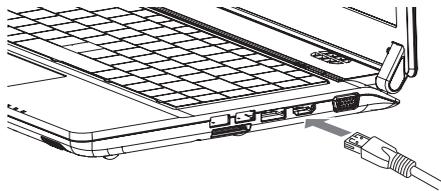
To remove the cable simply grab the head of the cable and gently pull out of the M1405, ensuring that the port is no longer active with a display output. DO NOT pull by the cable itself as this can damage the display cable of the monitor or projector or display device.



### 6.3 How to Connect an HDMI Display

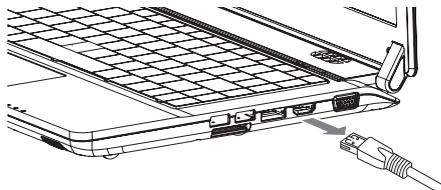
#### Connect an HDMI Display

To insert the cable, simply line it up with the HDMI port on the M1405 unit and press it into the port securely. It will click lightly into place when it is inserted properly. Use the operating systems display properties to then get an image on the HDMI Output port. Depending on your configuration the HDMI port can also carry a sound signal.



#### Disconnect an HDMI Display

To remove the cable simply grab the head of the cable and gently pull out of the M1405, ensuring that the port is no longer active with a display output. DO NOT pull by the cable itself as this can damage the HDMI cable or the cables connector head as well as the HDMI port.



### 6.4 Ethernet LAN Connection

The M1405 features an RJ45 Ethernet port with an integrated LAN controller capable of operational speeds of 10Mbps, 100Mbps or Gigabit (1000Mbps), depending on configuration.

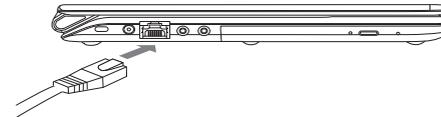
#### Ethernet LAN Connection

The built-in LAN controller defaults to Auto Discovery when any LAN cable is connected and will be able to operate on a Peer 2 Peer basis.

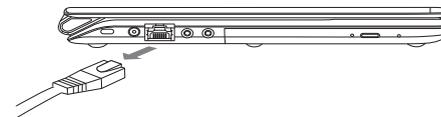
The connection speed will also be determined by the cable used and the network hardware that you connect to.

For Gigabit (1000Base-T) a CAT5E (Category 5E) Cable is required  
For 100Mbps (100BASE-T) a CAT5 (Category 5) Cable is required

To connect to a LAN, simply take the cable and align it, contacts facing down, and push it into the RJ45 LAN port until it clicks into place.



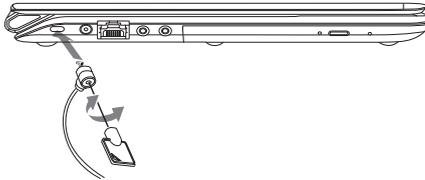
To disconnect, simply push the clip arm down and pull the cable out of the port to remove it.



## 6.5 How To Secure the Notebook

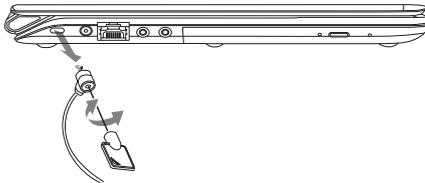
### Connect a Kensington Lock

To insert the cable, simply line it up with the Kensington lock with the hole and insert. If you have the key type, turn the key in the lock direction and then remove the key to secure the lock into the hole. If you have the type that uses a combination lock, enter the combination, insert the Kensington lock, turn, and then spin the combination to random numbers to lock. Ensure the other end of the cable is secured to the desk or security lock.



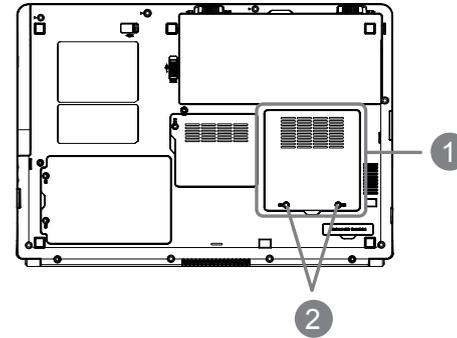
### Disconnect a Kensington Lock

To remove the cable simply insert the key or enter the correct combination, twist in the unlock direction and then pull the lock out of the securing hole on the M1405 Notebook.



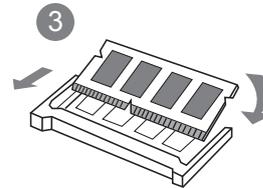
## 6.6 Upgrade the Memory

To upgrade the memory of the notebook, follow the simple steps below. If you do not wish to do the upgrade yourself you can contact the M1405 supplier for assistance.



1. Locate the memory bay cover (Shown as 1) - The memory modules and slots are located below this cover.
2. Remove the 2 security screws (Shown as 2) and use a correct size screwdriver to remove them being sure not to damage the screws. lift the cover off to expose the memory.  
Locate the empty socket OR populated memory socket.

3. If the slot is empty, place the new or upgrade module on the slot (1) and presses it into the contacts, then you press the chip (2) down and it clips into place. (Reverse these steps to remove a module). Replace and then secure the memory bay cover.



## 6.7 WWAN 3G Connection

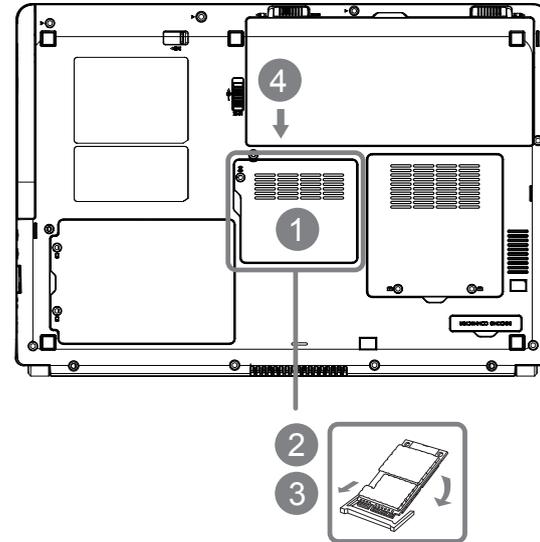
The M1405, depending on configuration, features a WWAN 3G Connection. This section will briefly explain how to install and set up the WWAN 3G unit if it did not ship with your M1405.

If you purchased the GIGABYTE WWAN 3G Module separately you should have these items in the package:

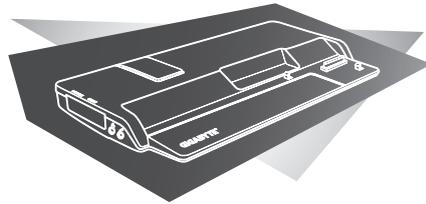
- 1x WWAN 3G Mobile Broadband Card
- 1x Driver CD
- 1x Quick Installation Guide

To install the 3.5G Mini Card please follow these steps, however if you are not comfortable doing so, please contact the supplier to install the Module for you. Ensure the M1405 is off before proceeding:

1. Remove the Comm. Bay cover shown above to reveal the Mini Card slots. There should be one open slot available.
2. Line up the 3.5G mini card with the slot, making sure to check the alignment of the notch, and press the card into the slot.
3. There should be an antenna plug available to plug into the mini card to allow for signal reception and transmission - Plug this into the port on the card. Follow the software installation steps on the next page.
4. The SIM card slot is under the battery in the battery bay. Follow the How To Remove Battery guideline to gain access to the slot and then install the SIM card.







## Chapter 7 Docking Station

This section will tell you how to connect and operate the docking station. It provides basic configuring, operations.

## 7.1 Features & Specifications

The extensive features of the GIGABYTE Docking Station are designed for enhanced usability and functionality and to extend the usability of M1405.

The Docking Station providing expansion, while the graphics GPU for improved graphics performance. The GPU is a fully compliant High Definition supported GPU.

### **Docking Station Specifications**

The docking station features a number of ports and connections allowing for easy management and control of multiple peripherals. Below lists the types of connections available to the user.

#### **Compatibility**

- GIGABYTE M1405 Notebook

#### **I/O Port**

- 6x USB 2.0
- HDMI, DVI, D-sub
- RJ45
- Mic-in, Earphone-out
- DC-in Jack

#### **Graphics (VGA model)**

- GPU: NVIDIA® GeForce® GT 220
- VRAM Size: DDRIII 1GB
- D-sub Max Resolution: 2048x1536
- DVI/HDMI Max Resolution: 2560x1600

#### **LAN**

- 10/100/1000 Base-T Compliant Ethernet LAN

#### **Buttons**

- Power On / Off Button
- Unplug Docking Button

#### **Status LED**

- Power LED

#### **Security**

- Kensington Lock Security Port

#### **Dimensions**

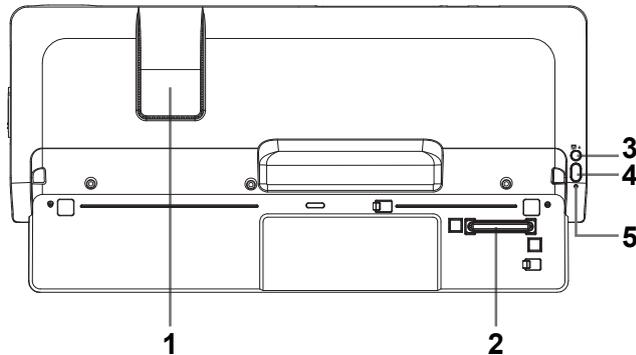
- 357(W) x 177(D) x 37(H)mm

#### **Weight**

- about 800g

## 7.2 Top View: Docking Station

The below image shows the top of the docking station. When placing the notebook into the docking station is sure to align the connection ports on the notebook and the docking station.

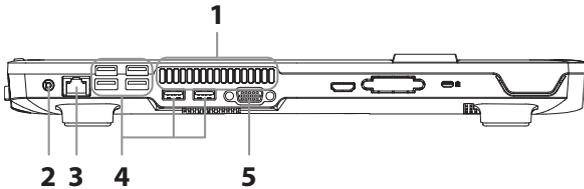


#	Item	Description
1	Air Vent	This vent is used to allow the vent on the rear of the notebook to expel the hot air from the system without restrictions from the docking station. Please be careful not to block this port.
2	Docking Port Connector	The docking port is used to interface between the notebook and the station itself allowing control and connectivity. This port is very fragile. Care must be taken when connecting and disconnecting.
3	Un-Docking	If the docked computer is on, press "Un-Docking" button to initiate the un-docking process.
4	Power Button	The Power On / Off button can switch on and shut down the attached notebook.
5	Power LED	The On / Off status is shown by the LED.

**!** *The (1) Symbol in the image above shows the dipped area where the CPU Fan Vent will be aligned when docked. The section is like this to allow flow of air to the systems fan. Please ensure that this section remains free from obstruction to allow the notebook to adequately cool itself.*

### 7.3 Rear View: Docking Station

The below image shows the rear of the docking station. All of the interface ports for peripherals are on the rear of the docking station. Please refer to the below image to see placement of the ports.



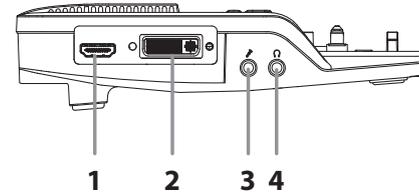
#	Item	Description
1	Air Vent	This vent is used to allow the vent on the rear of the notebook to expel the hot air from the system without restrictions from the docking station. Please be careful not to block this port.
2	DC-In Jack	The DC Jack is used to connect power to the dock to power the ports on the station itself as well as to charge the units battery and power the graphics.
3	RJ-45 LAN Port	The LAN Port is used to connect the Docking Station and docked notebook to a wired network. The port is capable of speeds up to 1Gbps.
4	USB Ports	The Docking Station has a total of 6 available ports for peripheral connections and the ports are USB 2 Compliant (USB 2.0).
5	VGA D-Sub Port	The VGA D-Sub port is used to connect an external analogue monitor to the docking station. These can be CRT, LCD or TV Displays.

### 7.4 Side Views: Docking Station

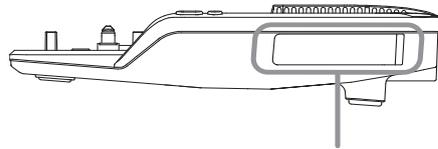
The below image shows the Left and Right sides of the GIGABYTE Docking station. Please refer to the below images for reference to ports / connectors.

#### Left Side View

The left side of the docking station has the following:



#	Item	Description
1	HDMI Port	For connecting High Definition Monitors and TV's/Panels.
2	DVI Port	For connecting Digital LCD Monitors.
3	Mic-in Jack	For connecting an external Microphone.
4	Audio Jacks	For connecting External Speakers/Headphones.

**Right Side View**

Notebook Release Arm  
(Ejector Switch)

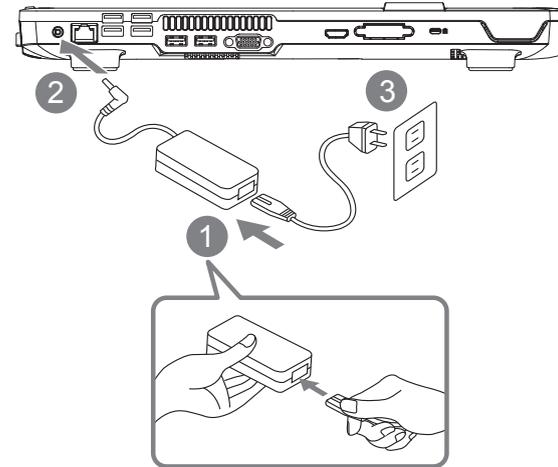
The right side of the docking station has the Notebook Release Arm; this is pulled to unlock the notebook from the docking station.

**7.5 Attachment****Attachment: The AC Adaptor**

Connect the AC adaptor to ensure that the Docking Station is powered. A number of ports on the docking station also use the power to operate. It will also enable the charging of the notebook battery pack when the unit is attached to the docking station.

The AC adaptor can be connected to any power source supplying from 100 to 240 volts and 50 or 60 hertz. This allows the AC adaptor to work in most countries and regions.

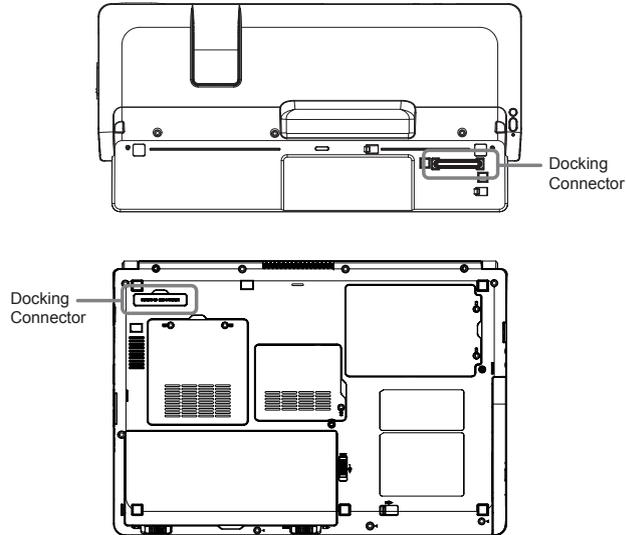
It is recommended to use only the AC adaptor supplied in the box with the Docking Station and any AC adaptor approved by the supplier. Using any other adaptor could cause damage or malfunction and might result in injury.



1. Connect the power cord to the AC adaptor.
2. Connect the AC adaptor to the DC-in Jack on the left side of the rear of the docking station.
3. Connect the power cord to the power outlet.

### Attachment: The Docking Station

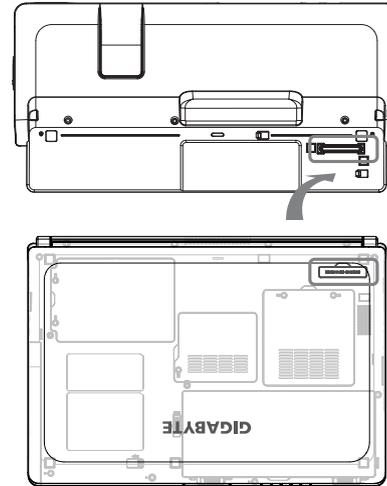
This section explains how to connect the notebook to the docking station. Please look at the images carefully and follow the instructions on how to connect them.



The images above show the notebook and the docking station. Please take note of the placement of the docking ports. When the notebook is placed the right way up, the docking connectors will be on the same side. Ensure that these are aligned correctly before trying to dock the notebook to the docking station.

### Attachment

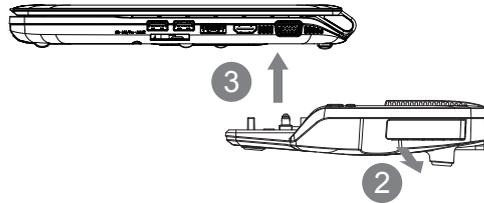
Please ensure that the ports are lined up and follow the instructions as below:



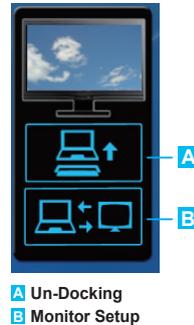
Line up the notebook with the docking station as shown above and make sure of the positioning. Once aligned gently place the notebook onto the docking station and press down firmly once aligned until the notebook is connected, you will hear a solid click to confirm that the notebook is then connected. The Battery light should come on to indicate that it is seated and connected properly. Ensure that the AC adaptor is connected first before connecting the notebook to the docking station.

## 7.6 Attachment: Undocking the Notebook

Follow the guide below to undock the notebook from the docking station:  
Please follow the instructions to learn how to remove the notebook.



1. If the docked computer is on, you can initiate the undocking process by 1) Pressing the “Un-Docking” button on the Docking Station. 2) Clicking the “Un-Docking” icon in the Docking Control Gadget.
2. Pull the Ejector Level out and back until the notebook unclips from the docking station.
3. Lift the notebook off of the docking station from the back of the notebook so as not to damage the docking connector.



An alternate option to step one is to Shut Down the notebook first and the follow steps 2 and 3.



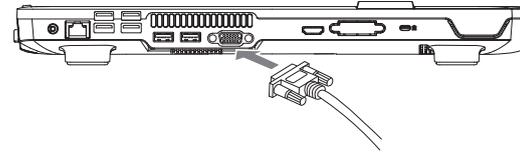
### **WARNING:**

*To avoid system crash or data loss, make sure to follow the above instruction to safely remove the computer from the Docking Station.*

## 7.7 How to: Connect an External D-Sub Display

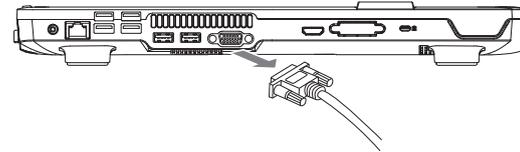
### **Connect an External D-Sub Display**

To insert the cable, simply line it up with the port on the back of the dock and press it into the port securely. Tighten the two securing screws so as to ensure that the cable stays connected.



### **Disconnect an External D-Sub Display**

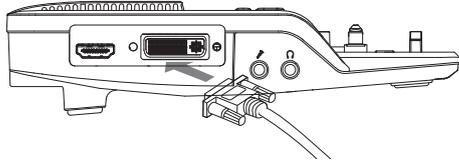
To remove the cable simply loosen the securing screws and grab the head of the cable and gently pull it out of the dock, ensuring that the port is no longer active with a display out-put. **DO NOT** pull by the cable itself as this can damage the display cable of the monitor or projector or display device.



## 7.8 How to: Connect an External DVI Display

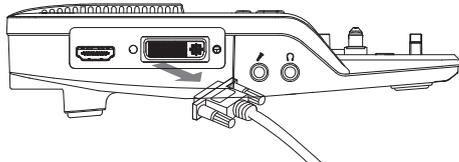
### Connect an External DVI Display

To insert the cable, simply line it up with the port on the back of the dock and press it into the port securely. Tighten the two securing screws so as to ensure that the cable stays connected.



### Disconnect an External DVI Display

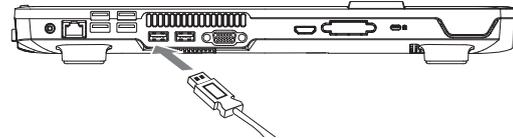
To remove the cable simply loosen the securing screws and grab the head of the cable and gently pull it out of the dock, ensuring that the port is no longer active with a display out-put. DO NOT pull by the cable itself as this can damage the display cable of the monitor or projector or display device.



## 7.9 How to: Connect a USB Devices

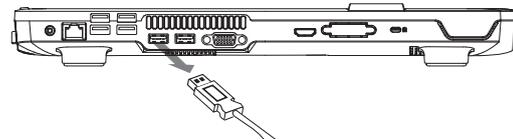
### Connect a USB Device

To connect a USB device simply line it up with the USB port on the unit and press it into the port securely. It will only go in one way because of the notching used so ensure that it is lined up correctly and do not force the USB connector into the port if it does not want to go in. USB Devices support Plug and Play and should auto discover once detected within the operating system.



### Remove the USB Device

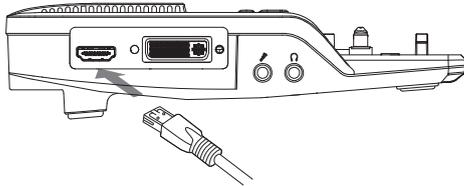
To remove the device, look for the Safely Remove Hardware icon on the taskbar and open the tool by double clicking with the left mouse button. Select the drive you would like to remove and click on stop, and windows will then let you know that it is safe to remove the device, and then pull the cable out of the port. If there is no notebook installed on the docking station you will be able to pull the cable out without needing to follow the Safety Remove steps.



## 7.10 How To: Connect an HDMI Display

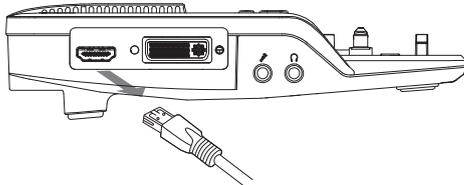
### Connect an HDMI Display

To insert the cable, simply line it up with the HDMI port on the HDMI port on the docking station and press it into the port. It will click lightly into place when it is inserted properly. Use the operating systems display properties to then get an image on the HDMI Output port.



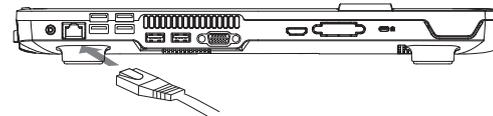
### Disconnect an HDMI Display

To remove the cable simply grab the head of the cable and gently pull out of the GRFN, ensuring that the port is no longer active with a display output. DO NOT pull by the cable itself as this can damage the HDMI cable or the cables connector head as well as the HDMI port.



## 7.11 How To: Connect an RJ45 Ethernet LAN

The docking station features an RJ45 Ethernet port with an integrated LAN controller capable of operational speeds of 10Mbps, 100Mbps or Gigabit (1000Mbps) – When active it will override the port on connected notebooks.



### Warranty Service

GIGABYTE D1305 is covered with two year warranty, since the date of purchase.

For more service information, please refer to [www.gigabyte.com.tw](http://www.gigabyte.com.tw)





## Chapter 8 Troubleshooting / Q & A

This section will briefly cover some frequently encountered problems and questions and provide a quick guide to assist with solve these problems. Most problems can be resolved quickly, simply and easily and are not always a system problem. Should you encounter a problem that is not yet or differently listed, please consult the GIGABYTE website or call your unit supplier for assistance?

For website assistance go to the support section of [www.gigabyte.com.tw](http://www.gigabyte.com.tw) for telephonic assistance please call the supplier of your unit or take the unit to the supplier directly for assistance.

## 8.1 Troubleshooting

**!** *Warning: Under the condition that you can't handle problems, please contact to your dealer to get professional assistance and service.*

### AC Adapter

Trouble	Solution
No power supplied to notebook	Make sure the AC adapter is well connected to the power source and notebook. Check the cable and plug to make sure they are OK. If they are broken, please contact your local dealer ASAP.

### Battery Pack

Trouble	Solution
No power supplied to notebook	The remaining power in battery pack may be not enough to power on the machine. Connect AC Adapter to recharge it.
Can't be recharged after connecting AC adapter	Check temperature of battery pack's surface. Battery pack can't be recharged if its temperature is too high or too low. Recharge it only after its temperature is the same with the normal environment one. If battery pack is fully discharged, it won't be recharged at once. Please wait for a few some minutes. If the power indicators of the battery pack are always not lit up, its life may be over. Please contact your dealer to buy another one.

Battery life is not as long as it should be	Battery life depends on usage conditions of the Notebook. You can change the settings in the Power Manager of the OS to save power. Battery pack can't exert its full capacity if it works when not fully recharged frequently. Power Notebook by battery pack until its power drops to a critically low level and the machine emits a high-pitched beep or displays a warning message; after that, recharge battery packs to make battery pack work longer.
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- !** **WARNING: Please pay attention to the following information regarding the battery pack:**
- 1. Be sure to recycle the waste batteries properly.**
  - 2. Do not place the batteries near high-temperature locations, fire source or in burning fire as this may cause the batteries to explode.**
  - 3. Do not assemble/disassemble /modify the batteries without authorization.**
  - 4. Use the battery pack provided by the original manufacturer only. Batteries other than those supplied by the original manufacturer may damage the device.**

### Keyboard

Trouble	Solution
Press character keys but number displayed instead of character	Check if Num Lock is activated.
Confusing display	Make sure there is no software to configure the keyboard.

**!** **WARNING:** Please pay attention to the following information about keyboard maintenance.

1. *Dust build-up may occur in the keyboard after long-term use. It is recommended to clean the keyboard with a small brush. Please shut down the machine before cleaning the surface of the keyboard and wipe it with a soft cloth, dipped in cleaner or water, gently.*
2. *In case any liquid enters the keyboard, shut off the power supply immediately, remove the batteries and contact the original manufacturer directly for repair. Do not disassemble the keyboard yourself for repair.*

#### Hard Disc Drive (HDD)

Trouble	Solution
HDD can't be booted	The operating system is corrupted by incorrect operation or virus. Try to clean the virus and then configure your operating system correctly.
	Maybe the documents of your OS run in error; please refer to the manual of your OS.
HDD performs very slowly	There is too much file fragment. Use disk defrag tools to rearrange the programs on the hard disk.

**!** **WARNING:** Please pay attention to the following information about Hard Drive maintenance.

1. *The hard disk is a high-speed data storage device. Avoid using the Notebook in unstable locations as far as possible to prevent hard disk damage and data loss.*
2. *Please use the computer in accordance with normal startup/shutdown procedures; improper startup/shutdown may shorten the service life of the hard disk.*

#### LCD

Trouble	Solution
The screen is blank	Press hot key Fn + F5 to change the display mode if certain external monitor is connected. Make sure the system isn't in the mode of Hibernation or Standby.

**!** **WARNING:** Please pay attention to the below points on the mounting design of the panel for the LCD module.

1. *Do not put heavy force along the edges of the active area.*
2. *Do not put a heavy shock or stress on the panel and film surface.*
3. *Do not put heavy goods on the display panel.*
4. *The LCD screen is the most fragile component of the Notebook and is prone to damage under external forces. Do not place any object on the keyboard or between the keyboard and the screen to prevent damage to the LCD screen.*
5. *When traveling with GIGABYTE Notebook, place it in a special case in a tidy manner as far as possible. Excess objects may squeeze the machine and therefore damage the LCD screen.*
6. *Do not touch the screen with sharp objects or fingers directly.*
7. *It is recommended that the LCD screen be wiped with a special screen cleaning cloth. Wipe the screen gently to avoid breakage of the screen.*
8. *Prevent any liquid from entering the LCD screen as this may damage the elements of the LCD screen.*

**Printer**

Trouble	Solution
The data can't be output from notebook to printer	Make sure the printer is powered on. Make sure its cable is OK and its USB interface is well connected to notebook.
Error printing	Make sure your printer is compatible with your notebook. Please refer to the user's manual of your printer for help.

**Audio**

Trouble	Solution
No sound emitted	Adjust sound controller. Check the setting of sound volume of software. Check if the ear phone is firmly connected. Check the Devices Manager of Windows. Be sure the Sound function has been activated and isn't interfering with other hardware.

**USB**

Trouble	Solution
Equipments connected can't work	Check and be sure USB port of notebook is firmly connected with the USB cord of the equipment. Be sure the driver of the equipment is installed correctly.

**Stand by / Hibernation**

Trouble	Solution
Can't enter into Standby/Hibernation	Please check if the Windows Media Player is running. If Yes, the notebook can't enter into Standby or Hibernation mode. Please close Windows Media Player.

**LAN**

Trouble	Solution
Can't be connected	Be sure the RJ45 connector is firmly connected to the network hub or switch.

## 8.2 Frequently Asked Questions

- ◆ My computer switches to hibernation mode much too quickly and I have to constantly hit a key or move the mouse to bring back the screen. What can I do?
  - This is part of Windows Power Management. Access Power Management by clicking on Start / Control Panel / Performance and Maintenance / then Power Options, and change the time next to the "Turn off Monitor" option to the time you want. You have the choice of either adjusting time for the power supply or for the battery.
- ◆ I've heard that cleaning and rearranging files on the hard drive will improve program's launch speed. How do I do this?
  - Good disk maintenances can improve program launch speed. This normally includes deleting unnecessary files, and defragmenting the hard disk so the files can be more efficiently grouped. Windows contains maintenance based utilities for these tasks; run Disk Cleanup to remove unnecessary files, and Disk Defragmenter to defragment fragmented file blocks. For more info on these utilities, please refer to your Windows documentation or Windows help.
- ◆ What kind of external microphone can I use with my notebook computer?
  - You will need to use a self-amplifying microphone.
- ◆ There are echoes coming from my speakers. What can I do?
  - Double click on the Speaker icon on the task bar. Then, under the Microphone Balance, check the Mute box.
- ◆ Because of a software problem, I was unable to shut the computer down from Windows, I pressed the power button to power off the computer, but it didn't work. How can I force a power off computer switches to hibernation mode much too quickly and I have to constantly hit a key or move the mouse to bring back the screen. What can I do?
  - Make sure you press the power button for at least 5 seconds. Normally, this will force the computer to shut off completely.
- ◆ Why can't I charge the battery of my notebook computer after it is out of use for some time?
  - After your notebook computer has not been used for a long time (for example: more than one month), the battery will enter into low voltage protection mode. Under this circumstance, restoring to normal voltage will require the battery to be slowly charged for several hours. Once the battery has been fully charged, your computer will resume to normal operation.

◆ My computer says: “CMOS Battery Low”, what should I do?

- ☞ If your computer is without power (i.e. unplug the computer power source from the power outlet and remove the battery pack from it) for over 45 days, you would lose the information stored in CMOS. Please follow the steps below to reconfigure your CMOS settings:
  - step1. Press F2 to enter into the BIOS setup utility.
  - step2. Select “Load Optional Defaults?” When you see the following prompt, choose <OK> and then press <Enter>.
  - step3. Select “Save Changes and Exit”, select <OK> and press <Enter> to restart your computer

◆ How to unplug or eject devices?

- ☞ 1. In the notification area next to your task bar, double-click on the Safe Removal icon. Safe removal displays a list of Plug and Play devices that support safe removal and that are currently attached to the system. If you do not see the Safe Removal icon, your device does not support safe removal, and you cannot unplug or eject your device using Safe Removal.
- 2. In Safely Remove Hardware, in the list of devices, select the device that you want to unplug or eject, and then click on Stop. This tells the system that you will be unplugging or ejecting the device.
- 3. In Stop a Hardware device, click OK. A notification appears stating that it is now safe to unplug or eject the device.

Caution

- Unplugging or ejecting a device that supports safe removal without first than using the Safe Removal application to warn the system can cause data to be lost or your system to become unstable. For example, if a device is unplugged during a data transfer, data loss is likely. If you use Safe Removal, however, you can warn the system before you unplug or eject a device, preventing possible loss of data. If you use Safe Removal, however, you can warn the system before you unplug or eject a device, preventing possible loss of data.

Note

- For removable storage devices that can safely be removed while the system is on, the system disables write caching by default. It does this so the devices can be removed without loss of data. When write caching is disabled, however, the system will likely experience slower performance, so be sure to enable write caching when you have finished removing the device.

◆ Does the M1405 provide a hardware switch or function button to enable/disable the Bluetooth function?

- ☞ the M1405 provides a combined function button to enable/disable the 3.5G (Fn+F10) and Bluetooth (Fn+F11) functions.

◆ What is the capacity of SDHC cards that M1405 can support?

- ☞ The specification of SDHC that M1405 SD card reader supports shall be in accordance with that of the SD Association. Currently, the maximum capacity announced by SD Association is 32GB  
<http://www.sdcard.org/developers/tech/sdhc/>

◇ How can M1405 BIOS be upgraded in the DOS and Windows mode?

☞ Please refer to GIGABYTE website “How to upgrade M1405 BIOS in the DOS and Windows mode?”

### 8.3 Questions and Answers

**Q:** I can feel a mild heat next to the battery pack. Is this normal?

**A:** The battery will generate heat during recharging and discharging. There is a protection circuit inside the Notebook to prevent overheating. User needs not worry.

**Q:** My battery operation time is not as long as it should be. Why?

**A:** The battery is heat sensitive and can only be charged to its maximum if the battery and its environmental temperature remain within 15-25°C (59-77°F). The more the temperature deviates from this range during recharging, the less chance there is for the battery to be fully charged. In order to recharge the pack to its full capacity, users are requested to cool down the unit by unplugging the AC Adapter. Wait until it is cooled down. Then plug in the AC Adapter to start recharging again.

**Q:** I did not use my spare battery for a few days. Even though it was fully recharged, there wasn't as much power left as a newly charged one. Why?

**A:** The batteries will self-discharge when they are not being recharged. To make sure a battery pack is fully charged, recharge before use. Always keep the battery inside the Notebook and have the AC adapter connected whenever possible.

**Q:** I did not use my spare battery for months. I have a problem with recharging it.

**A:** If you happen to leave your battery pack to go through an extended period of self-discharge, say more than three months, the battery voltage level will become too low and needs to be Pre-Charged (to bring the battery voltage level high enough) before it automatically (for Li-Ion only) resumes its normal Fast Charge. Pre-Charge may take 30 minutes. Fast Charge usually takes 2~3 hours.

## 8.4 The Notebook Care

Through prolonged use the Notebook might become dirty or due to some form of accident require cleaning. It may also become damaged due to travel and use. Please follow the below guidelines to care for and clean the Notebook.

Ensure to always carry your Notebook in a Handy Bag or Case so that it is protected during travel and is better able to handle any of the normal bumps, knocks and drops that occur.

Should the work surface of the notebook (Palm Rest, Touch Pad etc.) become dirty, a slightly damp cloth and certified computer cleaner can be used to clean the surface. Do not use any Household or abrasive cleaners as these can damage the surface.

To clean the LCD Panel, please use a slightly damp cloth and approved LCD Cleaner ONLY. Any form of Household or abrasive cleaner can damage the LCD Panel.

In the event that any liquid is spilled in / onto the notebook immediately switch off the machine regardless of any data that might be lost, remove the AC adaptor if plugged in and remove the battery pack. DO NOT switch the unit back on, immediately contact the provider of the notebook to arrange to have the unit dried and checked for any kind of damage.

## 8.5 GIGABYTE Service Information

More service information please link to GIGABYTE official website: [www.gigabyte.com.tw](http://www.gigabyte.com.tw)

